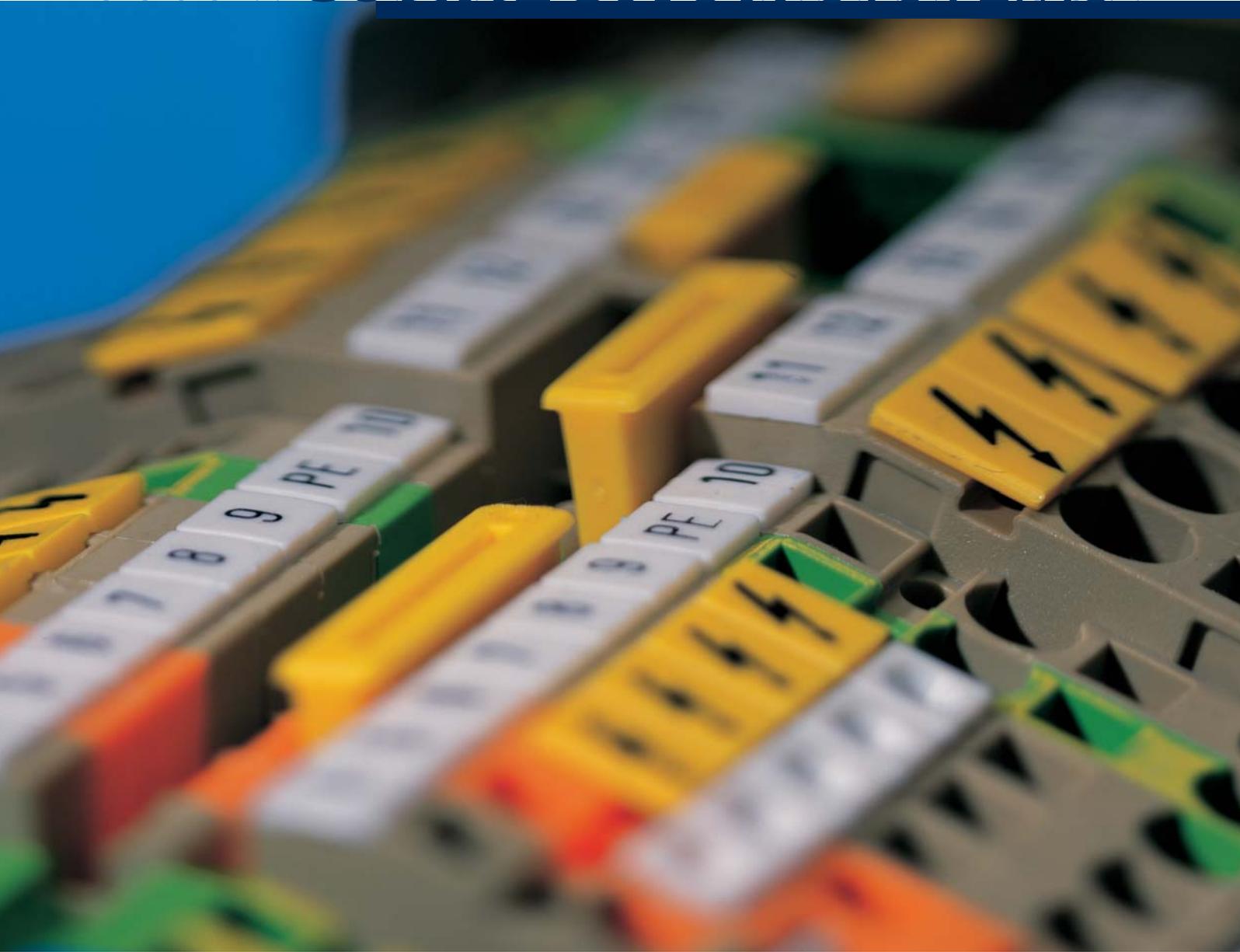


# CONTA-CONNECT **CONNECTION SYSTEMS**





## CONTA-CLIP

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### *The Company*

Founded and kept in the family since 1977: **CONTA-CLIP** is an owner-operated company that is a mid-sized global player. Users of electrical and electronic connection products have come to trust us for our reliable components. They also trust in our wide-reaching competence within the market and industry which has evolved over many years. In the years since our company was founded, we have evolved from a manufacturer to an innovator.

Our employees are connectivity specialists coming from a wide variety of backgrounds. They understand the specific problems, requirements and challenges of our customers. This ensures communication among equals. We then invest our gains directly into maintaining a modern and efficient production process. This allows us to maintain the most modern machinery at our facilities. We develop and produce the tooling ourselves. We neither make nor accept any compromise in the quality of materials used in our products.

Our top-class products are supported by this interplay between top-class men and machinery. We have also designed our range of services to align with customer needs. We develop electronics, assemble terminal rails, take care of component labelling, and deliver completely populated housings when needed – totally customized and expedited.

Our passion and concern for our customers' challenges does not end after we've delivered our solution. **CONTA-CLIP** customer representatives are always ready to offer their support to the customer, because service and support are our top priorities.



# CONTA-CONNECT

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## CONTA-CLIP

### Overview

Products from our **CONTA-CONNECT** (connection systems), **CONTA-ELECTRONICS** (electronics) and **CONTA-CON** (PCB connectors) lines are developed and optimized in close cooperation with the user community. They contribute to the smooth operation of a vast diversity of applications.

Quality management at **CONTA-CLIP** is conducted in compliance with DIN ISO 9001 and the certification of our suppliers is a top priority for us. Our products also comply with the relevant international standards. We work with materials that contain no hazardous substances and support regenerative heat recovery. **CONTA-CLIP** strives for the ideal synergy between environmental sustainability, process optimization and innovative products.



**CONTA-CONNECT**  
[Connection Systems]

**CONTA-ELECTRONICS**  
[Electronics]

**CONTA-CON**  
[PCB Connectors]

# CONTA-CLIP

## on the internet

You can find out all about product innovations, trade fair appointments, press releases, and more at our official **CONTA-CLIP** web site.

If you want to make sure you do not miss any news, subscribe with no obligation to our **CONTA-CLIP** newsletter by e-mail.

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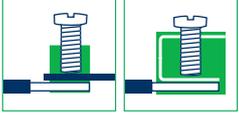
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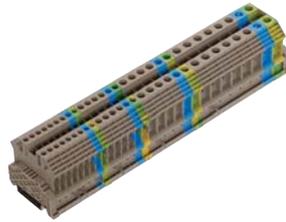
**CONTA-CLIP**

*Product overview*

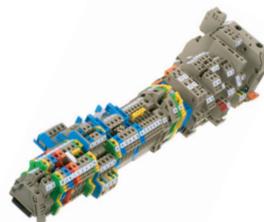
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**Screw connection system**  
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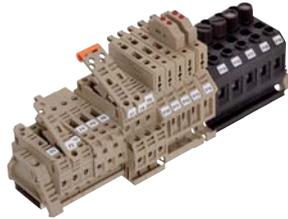
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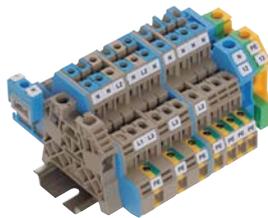
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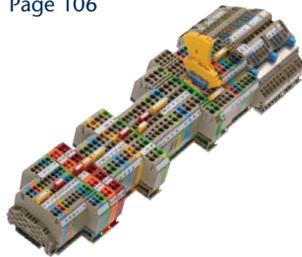
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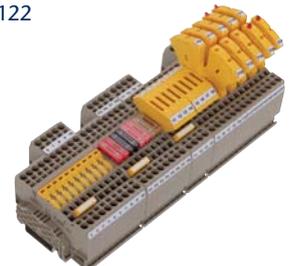
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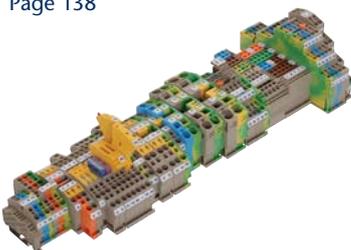
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**Tension-spring connection system**  
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**Triple-level terminal block  
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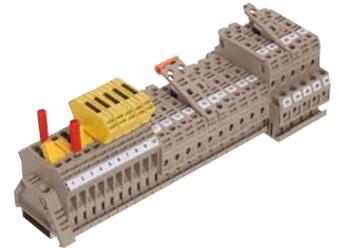
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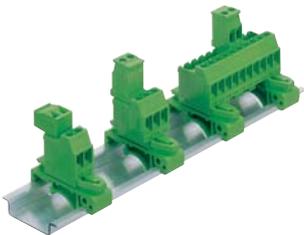
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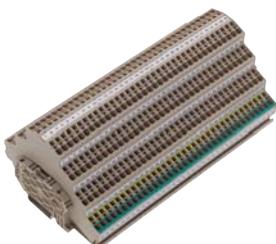
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**Motor-connection terminal  
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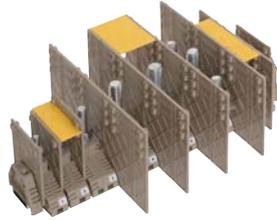
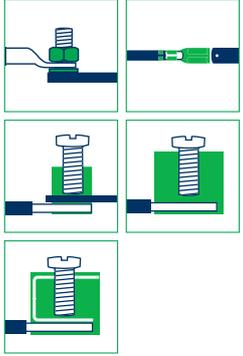


**CONTA-CLIP**

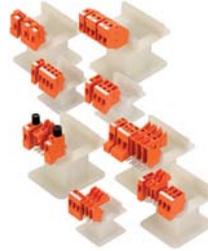
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**Shield-connection clip SAB | SSAB**  
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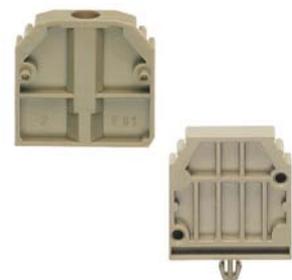
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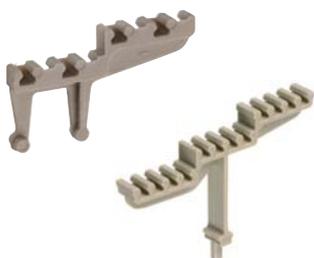
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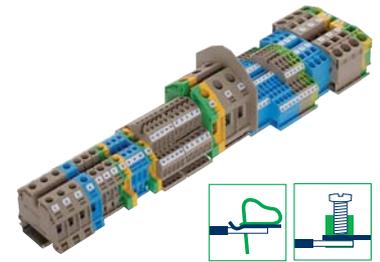
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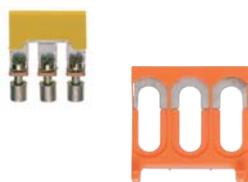
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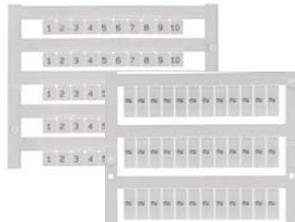


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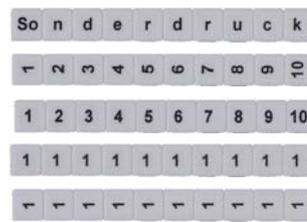
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**MARKING SYSTEMS  
CONTA-LABEL**

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**Terminal markers Quick marking system SB**  
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**Terminal markers Quick marking system AS 3/10**  
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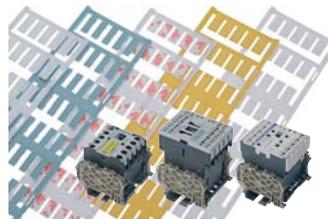
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**Cable and wire markers Adhesive cable labels KKE**  
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**Device and installation markers Maxicard MC GS | MC GST | MC GSU**  
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**Device and installation markers Adhesive device labels GKE**  
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**Cable cutter**  
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**Stripping tools**  
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**HOUSING SYSTEMS  
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**Polystyrene housing CK**  
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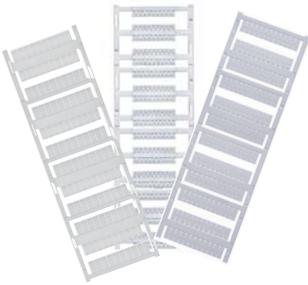
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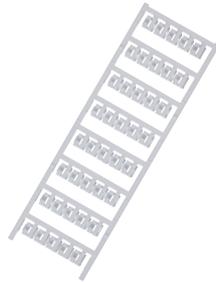
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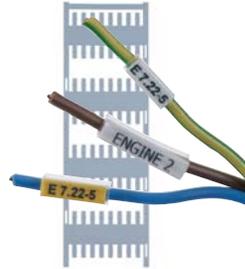
**Terminal markers Maxicard MC SB | MC BSTR | MC MM**  
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**Wire and terminal markers Maxicard MC KMC**  
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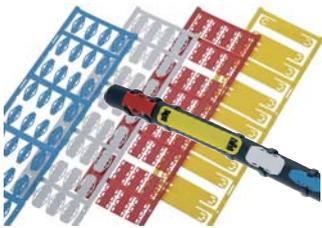
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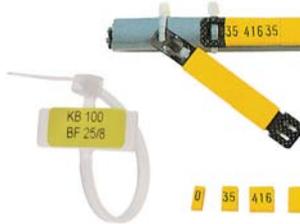
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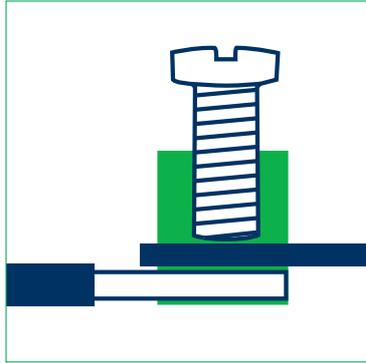


**Cable gland systems**  
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**CONTA-CLIP**

*Wire connection types*



**Screw connection system SRK|RK**  
The clamping yoke design

The clamping yoke transmits pressure from the screw to clamp the conductor against the busbar. The required contact force is generated by the torque applied to the screw.

This system provides a nearly gas-tight connection between the conductor and the internal busbar. The increased torque is generated by an elastic distortion of the terminal body. This creates increasing thread friction and results automatically in a stronger mechanical grip on the conductor.

Because of its construction, the clamping yoke is able to provide the strongest contact force and thus the lowest voltage drop. The clamping yoke and the connecting screw are made from carbonized steel that is galvanized and chrome-plated.

**The advantages of using the pressure-spring connection mechanism:**

- Maximum contact force and contact security
- Resistant to vibration
- Wire connection range from 0.08 to 240 mm<sup>2</sup>
- The lowest voltage drop
- Connection of multiple wires is possible



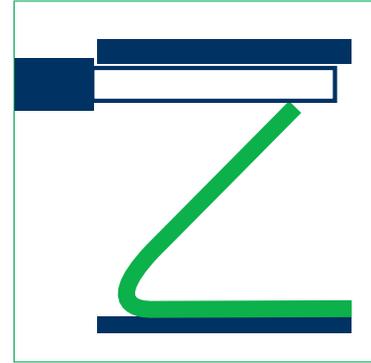
**Screw connection system RK**  
Wire-protected design

The wire-protected design is an alternative to the clamping yoke; it is an applications-oriented, affordable and less technically demanding solution.

This simple connection mechanism is designed to be connected one time for an installation application. The wire protection feature prevents the wire from being cut off or pushed away by the screw.

**The advantages of using the wire-protection connection mechanism:**

- A cost-effective connection mechanism



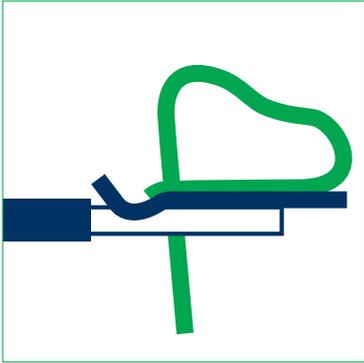
**Pressure-spring connection system FRK**  
The pressure-spring design

The pressure spring design makes wiring convenient and ensures the maximum level of contact security! This connection mechanism unites the advantages of the **CONTA-CLIP** tension-clamp connection system with the possibility to connect individual wire using no tools!

Solid and stranded wires with wire-end ferrules can simply be inserted directly into the terminal point. The contact between the wire and the busbar is automatically established during this insertion. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules.

**The advantages of using the pressure-spring connection mechanism:**

- Wire can be contacted directly – no tool required
- Resistant to vibration
- Wire connection range from 0,08 to 4mm<sup>2</sup>
- Easy to work with
- Compact shape
- Reduces wiring time by up to 80%
- Saves much time and money



**Tension-spring connection system ZRK**

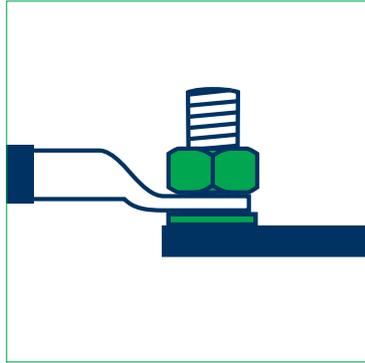
The tension-spring design

The tension-spring functions in a manner similar to the clamping yoke. The tension spring also separates the mechanical and electrical functions.

The tension spring consists of high-quality, rust-proof, acid-resistant steel. This spring presses the wire against the busbar. The tension spring is a connection element which can be used quickly and for many purposes, and which distinguishes itself by being maintenance-free and shock-proof. High resistance to vibration is guaranteed by the unique design of the tension spring.

**The advantages of using the tension-spring connection mechanism:**

- Resistant to vibration
- Wire connection range from 0.08 to 16 mm<sup>2</sup>
- Reduces wiring time by up to 50%
- Faster to connect compared to the tension-clamp connection mechanism.



**Stud connection system HSK**

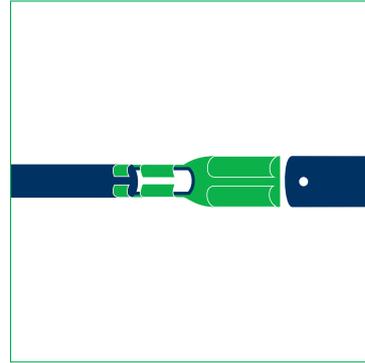
The stud design

Ring cable lugs are used in the stud connection to secure the wires onto studs. A secure electrical and mechanical connection to the busbar is established.

After attaching the cable lug on the wire, the lug is placed on the stud and fastened down using the counter nut. A spring lock washer is included to ensure that the lug does not loosen. The wire connection range is from 0,2 mm<sup>2</sup> to 120 mm<sup>2</sup>.

**The advantages of using the stud connection mechanism:**

- Can connect power up to 1000 V and up to 269 A
- Resistant to vibration
- Can connect multiple wires (up to four)
- Wire cross-sections from 0.2 to 120 mm<sup>2</sup>
- Excellent contact force
- Low voltage drop



**Spade connection system FF|SF**

The spade design

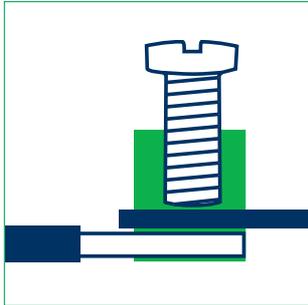
In the spade connection mechanism, the wire is plugged onto the terminal block's busbar using a crimped-on spade cable lug so that no tool is needed.

The system's rated current depends on the rated current of the cable lug and the corresponding terminal block. This connection design is used in routing distribution on the control-signal level, control-voltage level and for potential/signal multiplication.

**The advantages of using the spade connection mechanism:**

- Contact with wire established without any tool (using the crimped-on cable lug)
- Wire connection range from 0.2 to 6 mm<sup>2</sup>
- Easy to work with
- Can be rewired quickly

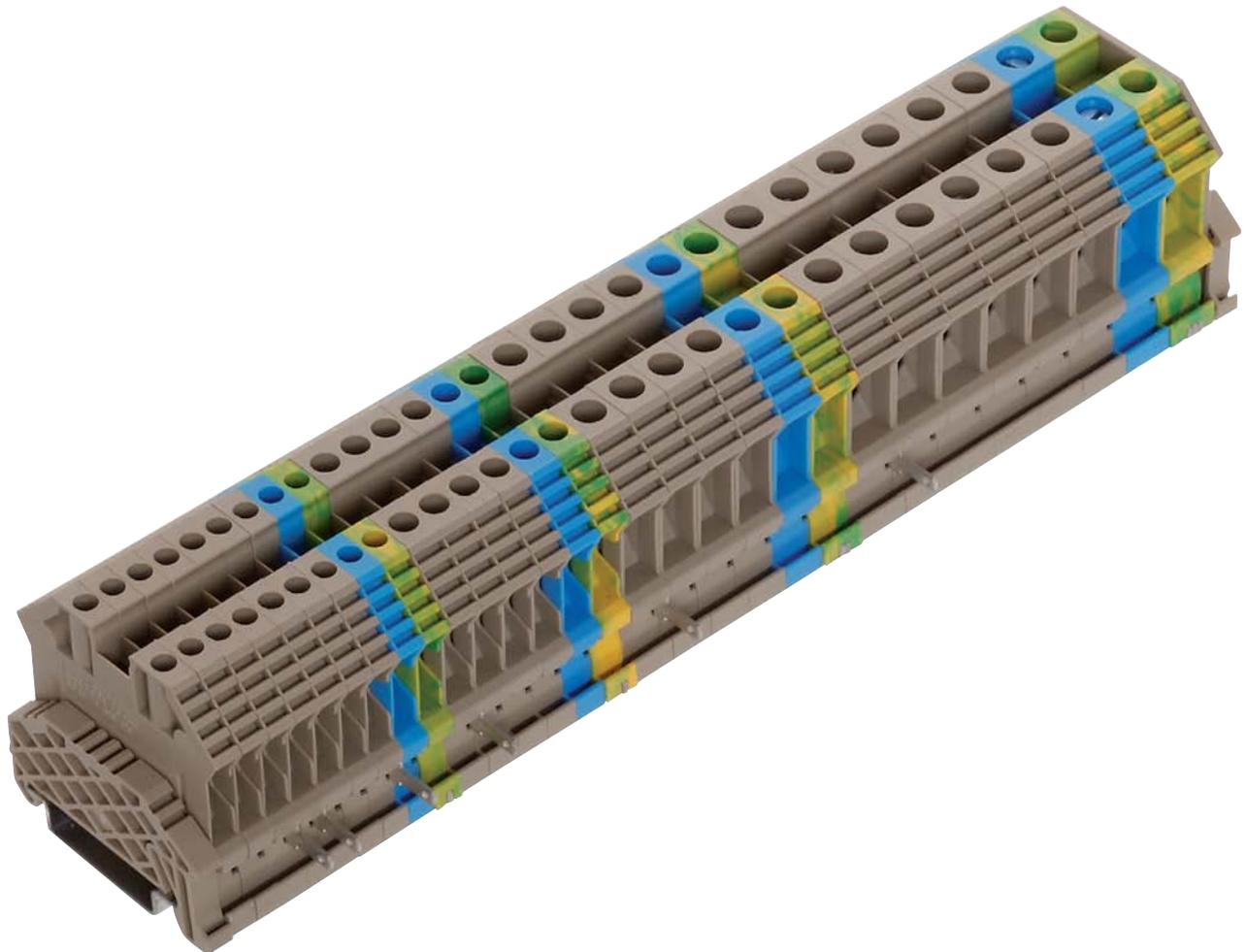
**Screw connection system SRK | SSL** *Proven – Safe – Reliable*



**CONTA-CLIP** offers an innovative line of feed-through and protective-earth terminals featuring the proven screw-connection system for the smallest cross-sections ranging from 0.08 mm<sup>2</sup> to 10 mm<sup>2</sup>. The screw-connection mechanism is easy to operate and can be used to establish a quick, safe connection using solid and finely stranded wires with or without wire-end ferrules. The protective-earth terminals feature a PE foot contact that is snapped on without screws, ensuring mechanical and electrical safety.

Our well-designed line of accessories allows you to significantly reduce your installation and storage costs. Potential voltages is muddled, the **SQI** pluggable cross connection system is used to connect together terminals along the rail. All of the insulating materials used in this product line are free of pollutants. They also comply with flammability class V0 (self-extinguishing) according to UL 94.

The basic feed-through and protective-earth terminals are certified as standard Atex and can thus be used in explosive-risk EEx e. zones.\*1



\*1 Starting 2011

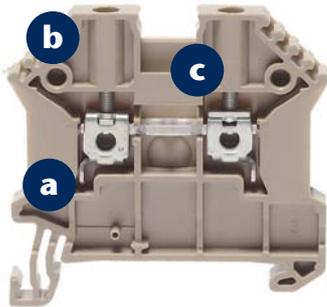
# Screw connection system SRK | SSL

## Features

### a The connection | Secure contact

The clamping yoke transmits pressure from the screw to clamp the conductor against the busbar. The required contact force is generated by the torque applied to the screw.

- Rising clamp design
- High contact force and contact security | Minimal contact resistance
- Clear separation of electrical and mechanical functions
- Clamping yoke made from hardened steel: galvanized, chrome-plated and additionally thick-film passivated
- The busbars are made from copper with surface coating (tin)
- Resistant to vibration and maintenance-free
- Corrosion-free
- Low voltage drop
- Compact shape
- Foot base can be snapped on TS 35 DIN rail



### c Pluggable cross-connection options

Distributing potentials with the pluggable **SQI** cross-connection system is quick and easy.

Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup>, 6 mm<sup>2</sup> and 10 mm<sup>2</sup>.

- Available in 2 to 10 and 30 poles
- Simple to insert and thus quicker to install
- No insulation plate or partition plate is required between a neighbouring cross-connection, since the **SQI** has a touch-safe protective design
- Cross-connection can carry the full rated current and voltage of the corresponding terminal block
- Individual terminals can be skipped over by breaking out contact pins in the cross-connector

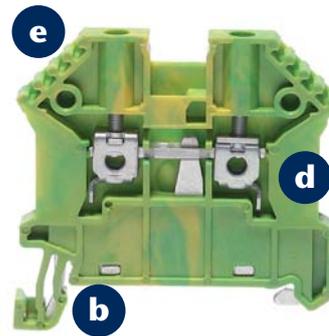
#### Feature

The **SRK 2.5** to **SRK 10** feed-through terminals have a rail adapter built in to the lower part of the terminal housing. This allows the cable shield from a control or data line to be connected in addition to the individual wires.

### b Easy and safe to wire with an established connection system

The screw-connection mechanism is easy to operate and can be used to establish a quick, safe connection using solid and finely stranded wires with or without wire-end ferrules.

- Simple and self-explanatory usage
- Can be used around the world
- A connection mechanism that has proven itself in millions of applications
- Generous wire-entry geometry
- Connection of multiple wires is possible
- PE foot contact on both sides – can be snapped on (no screws) to TS 35x7.5 and TS 35x15 rails.



### d Housing insulation material

- Polyamide PA6.6 UL 94, flamm. class V0, self-extinguishing without burning drops
- Free of hazardous materials such as halogen or phosphor
- Creepage resistance: CTI 600
- Operating temperature from -40°C to +120°C

### e Marking options

The standard terminals feature four labelling channels. They can be fitted with four **PMC SB** labelling tags or two **PMC BSTR** tags.

## Screw connection system **SRK** | **SSL**

### An overview of the advantages

#### Compact with identical shapes

The external size and shape are identical for the **SRK** feed-through terminal and the **SSL** PE terminal in the cross-sections 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup>, 6 mm<sup>2</sup> and 10 mm<sup>2</sup>. Identical end plates and partition plates can thus be used. The width (pitch) of the terminal blocks is 2.5 mm<sup>2</sup> (5 mm), 4 mm<sup>2</sup> (6 mm), 6 mm<sup>2</sup> (8 mm) and 10 mm<sup>2</sup> (10 mm). Despite their small size, the **SRK** feed-through terminals and the **SSL** PE terminals have a rated voltage range of up to 1000 V.



#### Large wire-entry bay and connection space

The wire-entry bay is very spacious – this permits quick wiring of solid or finely stranded wires, with or without wire-end ferrules. The rated cross-sections specified in our documentation correspond to a connection with stranded wires using wire-end ferrules. It is also possible to use solid wires up to the next larger cross-section size.



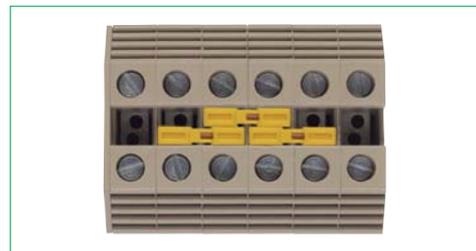
#### Security and stability

The insulated terminal housing with its special foot shape guarantees a convenient snap-on to the rail and a secure mount (on TS 35x7.5 and TS 35x15 according to EN 60715). Metal parts – including screws, clamping yoke, busbars, and PE foot – are securely mounted within the terminal housing. In addition, the screws are held captive from above by a screw brake mechanism. The PE terminals (**SSL 2.5** to **SSL 10**) make an electrical and mechanical connection to both sides of the rail. It can be snapped on to the rail with no need for screws and offers a maximum of mechanical and electrical security.



#### Cross-connection system

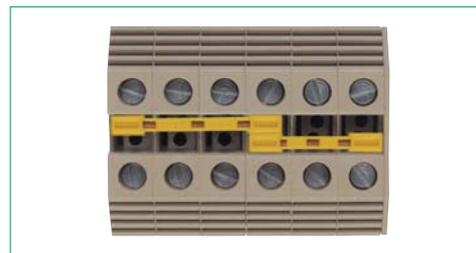
The standard feed-through terminals in 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup>, 6 mm<sup>2</sup> and 10 mm<sup>2</sup> feature two cross-connection channels. So the two-pole **SQI.../2** cross-connectors can be used to connect any number of terminals with each other.



#### Distributing potentials

The **SQI** cross-connectors are available from 2 to 10 poles and with 30 poles. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup>, 6 mm<sup>2</sup> and 10 mm<sup>2</sup>.

It is possible to shorten the **SQI** cross-connection with a cutting tool. The **SQI** system allows you to maintain touch-protection safety by covering the cut (uninsulated) end with a **SQIK** insulation cap.



## Screw connection system SRK | SSL

### An overview of the advantages

#### Skip-over bridging

It is possible to skip over terminal blocks by breaking out individual contact poles. You can mark these contact elements using the plastic insulation of the cross-connector.



#### Power feed with small cross-sections

Screw terminals with larger cross-sections and standard cross-connectors can connect to a single terminal of the next size up for the power feed-in. The **SQI** cross-connection system can carry the rated voltage and rated current.



#### Easy to service

The 30-pole **SQI** cross-connector features a numbered scale which allows the user to easily count off the number of required poles.



#### Labelling

High-quality, quick and concise labelling is possible when using the **PMC SB**, **PMC BSTR** or **MC** labelling systems. The standard terminals feature up to four labelling channels.



#### A comprehensive line of accessories

is available starting at page 264.

- DIN rails
- Mechanical attachment | end stop
- Group marker holders
- End plates | Visual separation
- Cross-connections (Potential distribution)
- Covers

**Feed-through terminals SRK | Protective earth terminals SSL**

**Screw connection system**



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

**Connection diagram**

**Connection type**

Size (L x W x H), mm with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A | Max. current capacity, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

F. stranded | f. stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Partition plate TW

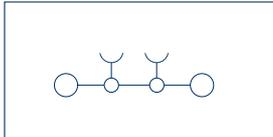
**Cat. no.**

Insulating cap SQIK for cross-connector

**Cat. no.**

Insulated cross-connection SQI

**SRK 2.5/2A**



Feed-through terminal  
2 connections

**Screw connection**

48 x 5 x 47

**Qty.**

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

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SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
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**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

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**17100.2** 100

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**17100.2** 100

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**17100.5** 100

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SRK 2.5/2A BU  
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**17100.2** 100

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SRK 2.5/2A BG  
**17100.2** 100

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SRK 2.5/2A BU  
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SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
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SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

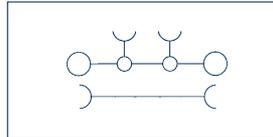
SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

SRK 2.5/2A BG  
**17100.2** 100

SRK 2.5/2A BU  
**17100.5** 100

**SRK 2.5/2A SAS**



Feed-through terminal, 2 connections  
with screen connection rail

**Screw connection**

62.5 x 5 x 47

**Qty.**

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
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SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
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**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

SRK 2.5/2A SAS BG  
**17119.2** 80

SRK 2.5/2A SAS BU  
**17119.5** 80

**SSL 2.5/2A**



Protective earth terminal  
2 connections

**Screw connection**

48 x 5 x 47

**Qty.**

SSL 2.5/2A GNVE  
**17103.2** 100



**Feed-through terminals SRK | Protective earth terminals SSL**

**Screw connection system**



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

**Connection diagram**

**Connection type**

Size (L x W x H), mm with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A | Max. current capacity, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

F. stranded | f. stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulating cap SQIK for cross-connector

**Cat. no.**

Insulated cross-connection SQI

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

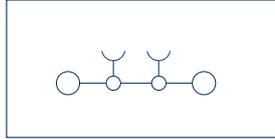
Quick marking PMC SB

**Cat. no.**

**SRK 6/2A**



M 3,5

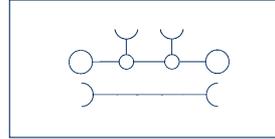


Feed-through terminal  
2 connections

**SRK 6/2A SAS**



M 3,5

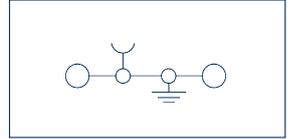


Feed-through terminal, 2 connections  
with shield connection rail

**SSL 6/2A**



M 3,5



PE terminal  
2 connections

**Screw connection**

48 x 8 x 47

**Qty.**

SRK 6/2A BG

**17108.2**

100

SRK 6/2A BU

**17108.5**

100

**Screw connection**

62.5 x 8 x 47

**Qty.**

SRK 6/2A SAS BG

**17117.2**

80

SRK 6/2A SAS BU

**17117.5**

80

**Screw connection**

48 x 8 x 47

**Qty.**

SSL 6/2A GNYE

**17111.2**

100

② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨

**IEC\***

1000

600

600

41 | 57

50

55

10 | 22-8

6 | 3

A5 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-6

0.2-10

10

1.2-2.0 | Slotted M 3,5

PA 6.6 | -40 to +120°C

2 | 1

**Page Qty.**

AP 2.5-10 BG

**2001.2**

278

50

TW 2.5-10 BG

**2002.2**

316

50

SQIK 2.5-10 YE

**17200.8**

285

20

SQI 6/2 YE

**17221.8**

284

50

SQI 6/3 YE

**17222.8**

284

50

SQI 6/4 YE

**17223.8**

284

20

SQI 6/5 YE

**17224.8**

284

20

SQI 6/6 YE

**17225.8**

284

20

SQI 6/7 YE

**17226.8**

284

20

SQI 6/8 YE

**17227.8**

284

10

SQI 6/9 YE

**17228.8**

284

10

SQI 6/10 YE

**17229.8**

284

10

SQI 6/30 YE

**17230.8**

284

5

ES 35/K/ST BG

**2828.0**

274

50

SDB 0,8x4,0

**1087.0**

422

1

PMC SB 8/40 WH

**9323.7**

342

400

② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨

**IEC\***

320

41 | 57

10 | 22-8

6 | 3

A5 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-6

0.2-10

10

1.2-2.0 | Slotted M 3,5

PA 6.6 | -40 to +120°C

2 | 1

**Page Qty.**

AP 2.5-10 BG

**2001.2**

278

50

TW 2.5-10 BG

**2002.2**

316

50

SQIK 2.5-10 YE

**17200.8**

285

20

SQI 6/2 YE

**17221.8**

284

50

SQI 6/3 YE

**17222.8**

284

50

SQI 6/4 YE

**17223.8**

284

20

SQI 6/5 YE

**17224.8**

284

20

SQI 6/6 YE

**17225.8**

284

20

SQI 6/7 YE

**17226.8**

284

20

SQI 6/8 YE

**17227.8**

284

10

SQI 6/9 YE

**17228.8**

284

10

SQI 6/10 YE

**17229.8**

284

10

SQI 6/30 YE

**17230.8**

284

5

ES 35/K/ST BG

**2828.0**

274

50

SDB 0,8x4,0

**1087.0**

422

1

PMC SB 8/40 WH

**9323.7**

342

400

②

**IEC\***

320

10 | 22-8

6 | 3

A5 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-6

0.2-10

10

1.2-2.0 | Slotted M 3,5

PA 6.6 | -40 to +120°C

1 | 1

**Page Qty.**

AP 2.5-10 GN

**2001.2**

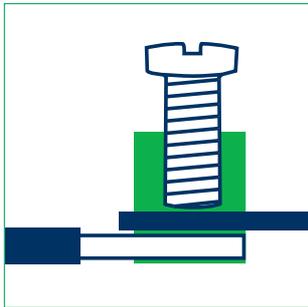
278

50

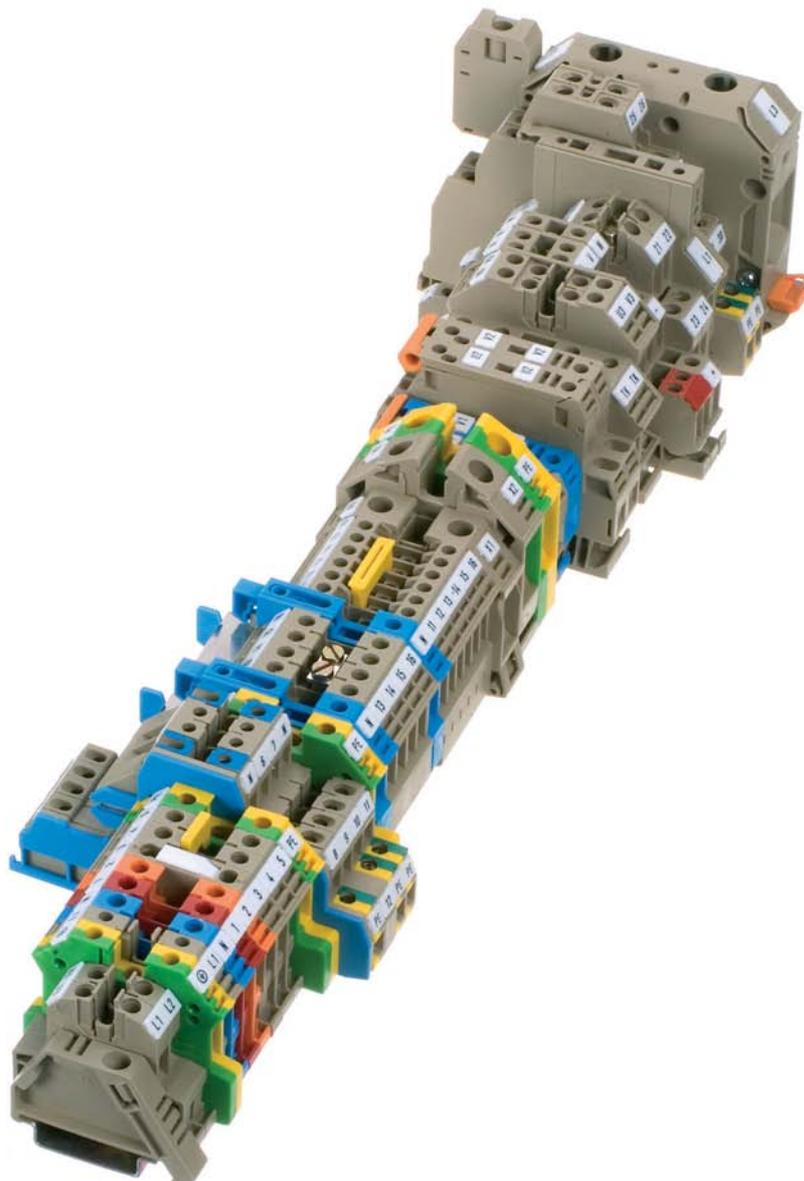
TW 2.5-10 BG



**Screw connection system RK | SL** *Proven – Safe – Reliable*



**CONTA-CLIP** offers an innovative line of feed-through and protective-earth terminals featuring the proven screw-connection system for the smallest cross-sections ranging from 0.08 mm<sup>2</sup> to 240 mm<sup>2</sup>. This also includes disconnect terminals, fused terminals, actuator terminals, sensor terminals, motor-connection terminals and direct-mounting terminals. This system can be used for a large variety of applications with only a minimal number of accessory parts. The screw-connection mechanism is easy to operate and can be used to establish a quick, safe connection using solid and finely stranded wires with or without wire-end ferrules. The protective-earth terminals feature a PE foot contact that is snapped on, ensuring mechanical and electrical safety. Our well-designed line of accessories allows you to significantly reduce your installation and storage costs. You can take advantage of this system to implement all of your switching requirements with a minimal amount of accessories. Our clamping-yoke system has already proven itself in millions of applications. It ensures an electro-mechanical connection that is both permanent and high-quality.



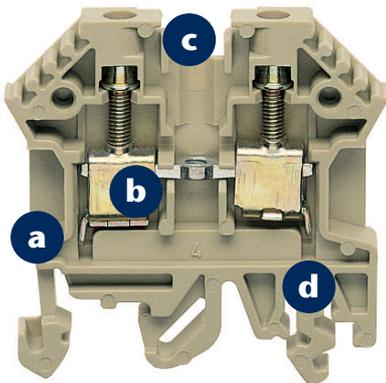
# Screw connection system RK | SL

## Features

### a The connection | Secure contact

The clamping yoke transmits pressure from the screw to clamp the conductor against the busbar. The required contact force is generated by the torque applied to the screw.

- Rising clamp design
- High contact force and contact security | Minimal contact resistance
- Clear separation of electrical and mechanical functions
- Clamping yoke made from hardened steel: galvanized, chrome-plated and additionally thick-film passivated
- Busbars made from copper or high-quality brass with surface coating (tin)
- Resistant to vibration and maintenance-free
- Corrosion-free
- Low voltage drop
- Compact shape
- The product line includes terminal blocks that can be snapped on to TS 15, TS 32/35 and TS 35 rails.



### c Possibilities for cross-connections

The pre-assembled **Q/QI** cross-connection units, available with 2, 3, 4 or 10 poles, significantly reduce installation times. There are additional advantages with the **QI** insulated cross-connections when using terminal blocks up to 10 mm<sup>2</sup>.

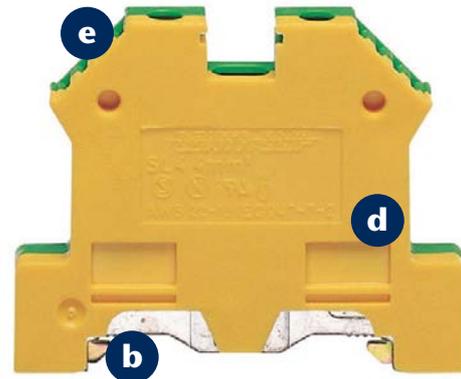
Because of its angled design, two **QIs** can be assembled offset (staggered). Thus it is possible to achieve the parallel guiding of two potentials.

Since the **QI** is insulated and touch-safe according to VDE 0106 section 100, it is not necessary to use end plates or partitions between neighbouring cross-connection up to 400V. The **QI** cross-connections can carry the rated current of the terminal blocks. Terminals can be skipped over by breaking out individual contact poles.

### b Easy and safe to wire with an established connection system

The screw-connection mechanism is easy to operate and can be used to establish a quick, safe connection using solid and finely stranded wires with or without wire-end ferrules.

- Simple and self-explanatory usage
- Can be used around the world
- A connection mechanism that has proven itself in millions of applications
- Generous wire-entry geometry
- Connection of multiple wires is possible
- The centrally screwed PE foot grips both sides of the rail to ensure both mechanical strength and electrical safety.



### d Housing insulation material

- Polyamide PA6.6 UL 94, flamm. class V2 self-extinguishing
- Free of hazardous materials such as halogen or phosphor
- Creepage resistance: CTI 600
- Operating temperature from -40°C to +105°C

### e Marking options

The standard terminals feature four labelling channels. They can be fitted with four **PMC SB** labelling tags or two **PMC BSTR** tags.

## Screw connection system RK | SL

### An overview of the advantages

#### A connection system proven in millions of applications

The screw connection is still the foundation for industrial-strength connectivity. It can exert very high contact forces in a small space while still ensuring a high level of contact safety.



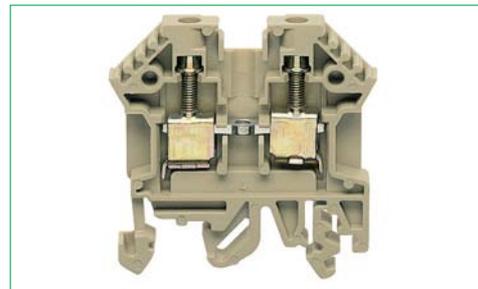
#### Large wire-entry bay and connection space

The funnelled entry into the insulation housing guides the wire smoothly into the clamping yoke. This makes it easy to feed in stranded and finely stranded wires (even without wire-end ferrules) in a safe and smooth manner. The rated cross-sections specified in our documentation correspond to a connection with stranded wires using wire-end ferrules. It is also possible to use solid wires up to the next larger cross-section size.



#### Stability and efficiency

**CONTA-CLIP** terminal block with the **RK** screw-connection system are normally equipped with a combi-foot. This ensures that the terminal blocks can easily be snapped on to the **TS 35 x 7.5**, **TS 35 x 15** rails (according to DIN EN 50 022) and the **TS 32** (according to DIN EN 50 035). When using a C-rail (**TS 32**) and the device/top-hat rail (**TS 35**), you can significantly reduce the number of required terminal block types in your inventory. Economically, this provides you with a cost-effective solution.



#### Cross-connection system

You can save time when distributing potentials between terminal blocks of identical cross-section ranges when using the **Q/QI** screwable cross-connection system. The **QI** has a touch-safe design and, like the **Q** cross-connection system, is available with 2, 3, 4 or 10 poles.



#### The QI cross-connector variability

Thanks to the angled design of the insulated **QI** cross-connector, it is possible to guide different potentials in parallel and without loss of poles when using the **QI** system with cross-sections ranging from 2.5 mm<sup>2</sup> to 10 mm<sup>2</sup>.



## Screw connection system RK | SL

### An overview of the advantages

#### Skip-over bridging

With the standard terminal blocks, it is possible to skip over terminal blocks by breaking out individual contact poles. A cutting tool can be used to shorten the cross-connections. In this case, make sure that the cut side is fitted with an end plate so that the voltage rating is maintained.



#### External cross-connector AQI

The **AQI** can be used to make a cross-connection for terminal blocks with no cross-connection channel and for applications requiring an additional potential to be cross-connected.



#### Labelling

High-quality, quick and concise labelling is possible when using the **PMC SB**, **PMC BSTR** or **MC** labelling systems. The standard terminals feature up to four labelling channels.



#### A comprehensive line of accessories

is available starting at page 264.

- DIN rails
- Mechanical attachment | end stop
- Group marker holders
- End plates | Visual separation
- Cross-connections (Potential distribution)
- Covers
- Test adapters

Feed-through terminals RK | Protective earth terminals SL

Screw connection system



- Foot can be snapped on TS 15 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

SRK 2.5/15



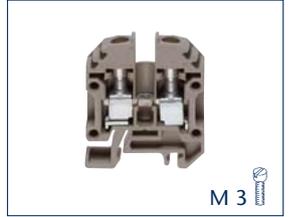
M 2.5

RK 1.5-4/15

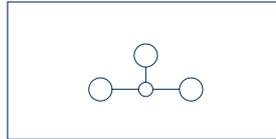


M 3

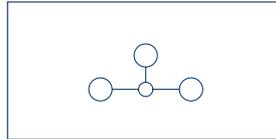
RK 1.5-4/15 STB



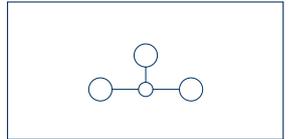
M 3



Feed-through terminal  
2 connections



Feed-through terminal  
2 connections



Feed-through terminal  
2 connections

Connection type

Size (L x W x H) mm with TS 15 mm

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

Type

Type/colour

Cat. no.

Type/colour

Cat. no.

Type/colour

Cat. no.

Type/colour

Cat. no.

Colours available

Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Partition plate TW

Cat. no.

Insulation plate TRS

Cat. no.

Cross-connector Q

Cat. no.

Cross-connector Q

Cat. no.

Cross-connector Q

Cat. no.

End stop ES

Cat. no.

Test plug PS

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

Screw connection

26 x 5 x 29.5

Qty.

SRK 2.5/15 BG

**1035.2** 100

SRK 2.5/15 BU

**1035.5** 100

② ⑤ ③ ① ④ ⑦ ⑧ ⑨

IEC UL CSA

500 300 300

24 15 20

2.5 | 22-14

6 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

1 | -

Page Qty.

AP 2.5/15 BG

**2427.2** 278 50

TW 2.5/15 BG

**2428.2** 316 50

Q 2

**2422.0** 288 50

Q 3

**2423.0** 288 50

Q 4

**2424.0** 288 20

Q 10

**2425.0** 288 10

ES 15 BG

**2074.2** 275 50

SDB 0,5x3,0

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

Screw connection

27 x 6 x 34.5

Qty.

RK 1.5-4/15 BG

**1010.2** 100

RK 1.5-4/15 BU

**1010.5** 100

② ⑤ ③ ① ④ ⑦ ⑧ ⑨

IEC UL CSA

500 300 300

32 30 40

4 | 22-10

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

PA 6.6 | -40 to +105°C

1 | -

Page Qty.

AP 1.5-4 BG

**2738.2** 278 50

TW 1.5-4 BG

**2071.2** 316 50

TRS 3 BG

**2566.2** 316 100

Q 2

**2087.0** 289 20

Q 3

**2088.0** 289 20

Q 4

**2089.0** 288 10

Q 10

**2090.0** 289 10

ES 15 BG

**2074.2** 275 50

SDB 0,6x35

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

Screw connection

27 x 6 x 34.5

Qty.

RK 1.5-4/15 STB BG

**1013.2** 100

RK 1.5-4/15 STB BU

**1013.5** 100

② ⑤

IEC UL CSA

500 300 300

32 30 40

4 | 22-10

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | STB M 3

PS 2,3

PA 6.6 | -40 to +105°C

1 | 2

Page Qty.

AP 1.5-4 BG

**2738.2** 278 50

TW 1.5-4 BG

**2071.2** 316 50

TRS 3 BG

**2566.2** 316 100

Q 2

**2087.0** 289 20

Q 3

**2088.0** 289 20

Q 4

**2089.0** 288 10

Q 10

**2090.0** 289 10

ES 15 BG

**2074.2** 275 50

PS 2,3

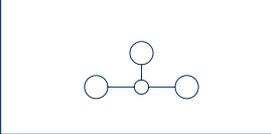
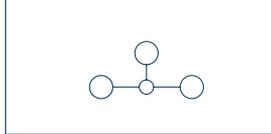
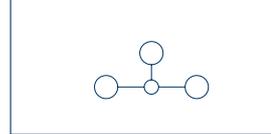
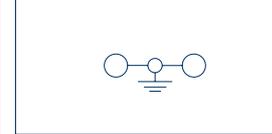
**2007.0** 317 20

SDB 0,6x35

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

SL 4/15	SRK 2.5	RK 1.5-4	RK 1.5-4/STB	SLN 2.5/35
				
M 3	M 2.5	M 3	M 3	M 2.5
				
Protective earth terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections
<b>Screw connection</b> 32 x 7 x 34	<b>Screw connection</b> 45 x 5 x 43.5 45 x 5 x 39	<b>Screw connection</b> 45 x 6 x 48 45 x 6 x 43.5	<b>Screw connection</b> 45 x 6 x 48 45 x 6 x 43.5	<b>Screw connection</b> 52 x 6 x 38.9
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
SL 4/15 GNYE <b>1064.2</b> 100	SRK 2.5 BG <b>1030.2</b> 100 SRK 2.5 BU <b>1030.5</b> 100	RK 1.5-4 BG <b>1015.2</b> 100 RK 1.5-4 BU <b>1015.5</b> 100	RK 1.5-4/STB BG <b>1009.2</b> 100 RK 1.5-4/STB BU <b>1009.5</b> 100	SLN 2.5/35 GNYE <b>1058.2</b> 100
<b>IEC</b> <b>UL</b> <b>cUL</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>cUL</b>
500 300 300 24 15 20	500 300 300 32 30 40	500 300 300 32 30 40	500 300 300 32 30 40	500 300 300 32 30 40
4   22-10 8   3 A3   V2	2.5   22-14 6   3 A3   V2	4   22-10 6   3 A4   V2	4   22-10 6   3 A4   V2	2.5   22-12 8   3 A3   V2
0.2-4   - 0.2-4   0.2-4 0.2-4 9 0.5-1.0   Slotted M 3	0.2-4   - 0.2-4   0.2-2.5 0.2-4 7 0.4-0.8   Slotted M 2.5	0.2-4   - 0.2-4   0.2-4 0.2-4 9 0.5-1.0   Slotted M 3	0.2-4   - 0.2-4   0.2-4 0.2-4 9 0.5-1.0   STB M 3 PS 2,3	0.2-4   - 0.2-4   0.2-2.5 0.2-4 10 0.4-0.8   Slotted M 2.5
PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C 1   -	PA 6.6   -40 to +105°C 1   -	PA 6.6   -40 to +105°C 1   2	PA 6.6   -40 to +105°C
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
	AP-SR BG <b>2070.2</b> 278 50 TW 2.5 BG <b>2071.2/</b> 316 50	AP 1.5-4 BG <b>2738.2</b> 278 50 TW 1.5-4 BG <b>2071.2</b> 316 50 TRS 3 BG <b>2566.2</b> 316 100 Q 2 <b>2087.0</b> 289 20 Q 3 <b>2088.0</b> 289 20 Q 4 <b>2089.0</b> 288 10 Q 10 <b>2090.0</b> 289 10 ES 35 BG <b>2005.2</b> 274 50	AP 1.5-4 BG <b>2738.2</b> 278 50 TW 1.5-4 BG <b>2071.2</b> 316 50 TRS 3 BG <b>2566.2</b> 316 100 Q 2 <b>2087.0</b> 289 20 Q 3 <b>2088.0</b> 289 20 Q 4 <b>2089.0</b> 288 10 Q 10 <b>2090.0</b> 289 10 ES 35 BG <b>2005.2</b> 274 50 PS 2,3 <b>2007.0</b> 317 20	
SDB 0.6x3.5 <b>1086.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	SDB 0.5x3,0 <b>1085.0</b> 422 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	SDB 0,6x3,0 <b>1086.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	SDB 0,6x3,0 <b>1086.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	SDB 0.5x3,0 <b>1085.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500

Feed-through terminals RK | Protective earth terminals SL

Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Partition plate TW

Cat. no.

Insulation plate TRS

Cat. no.

Cross-connector Q / Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector QI/ZQI

Cat. no.

Cross-connector Q / Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector QI/ZQI

Cat. no.

Cross-connector Q / Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector QI/ZQI

Cat. no.

Cross-connector Q / Insulated cross-connector ZQI

Cat. no.

End stop ES

Cat. no.

Test adapter TA

Cat. no.

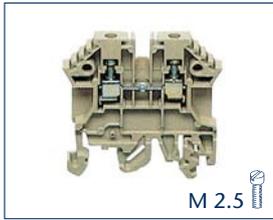
Screwdriver SDB

Cat. no.

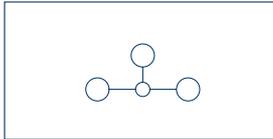
Quick marking PMC SB

Cat. no.

RK 2.5



M 2.5



Feed-through terminal  
2 connections

Screw connection

48 x 5 x 51.5

48 x 5 x 47

Qty.

RK 2.5 BG

**1296.2**

100

RK 2.5 BU

**1296.5**

100

② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨

IEC

800

24

2.5 | 22-12

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

1 | 1

Page Qty.

AP 2.5-10 BG

**2001.2**

278

50

TW 2.5-10 BG

**2002.2**

316

50

TRS 3 BG

**2566.2**

316

100

Q 2

**2567.0**

288

50

Q 3

**2568.0**

288

50

Q 4

**2569.0**

288

20

Q 10

**2570.0**

288

10

ES 35/K/ST BG

**2828.0**

274

50

TA 5/1/ST

**2812.0**

318

10

SDB 0.5x3,0

**1085.0**

422

1

PMC SB 5/50 WH

**4600.7**

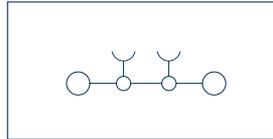
339

500

RK 2.5/35/N/2 Q



M 2.5



Feed-through terminal  
2 connections

Screw connection

48 x 5,1 x 47

48 x 5,1 x 47

Qty.

RK 2.5/35/N/2Q BG

**1574.2**

100

RK 2.5/35/N/2Q BU

**1574.5**

100

② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨

IEC

800

24

2.5 | 20-14

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

2 | 1

Page Qty.

AP 2.5-10 BG

**2001.2**

278

50

TW 2.5-10 BG

**2002.2**

316

50

ZQI 2.5/2 YE

**3710.8**

308

50

ZQI 2.5/3 YE

**3711.8**

308

50

ZQI 2.5/4 YE

**3712.8**

308

20

ZQI 2.5/5 YE

**3713.8**

308

20

ZQI 2.5/6 YE

**3714.8**

308

20

ZQI 2.5/7 YE

**3715.8**

308

20

ZQI 2.5/8 YE

**3716.8**

308

10

ZQI 2.5/9 YE

**3717.8**

308

10

ZQI 2.5/10 YE

**3718.8**

308

10

ES 35/K/ST BG

**2828.0**

274

50

TA 5/1N/Q

**2811.0**

318

10

SDB 0.5x3,0

**1085.0**

422

1

PMC SB 5/50 WH

**4600.7**

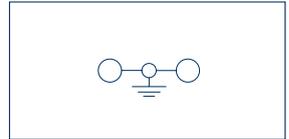
339

500

SL 2.5/35



M 2.5



Protective earth terminal  
2 connections

Screw connection

52 x 6 x 47

52 x 6 x 47

Qty.

SL 2.5/35 GNYE

**1056.2**

100

②

IEC

800

24

2.5 | 22-12

12 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

10

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

1 | 1

Page Qty.

SDB 0.5x3,0

**1085.0**

422

1

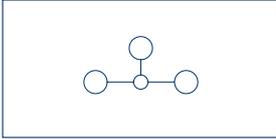
PMC SB 6/50 WH

**4702.7**

340

500

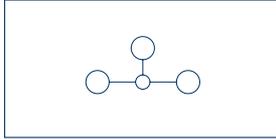
**RK 2.5-4**



Feed-through terminal  
2 connections

Screw connection	
48 x 6 x 51.5	
48 x 6 x 47	
Qty.	
RK 2.5-4 BG	<b>1001.2</b> 100
RK 2.5-4 BU	<b>1001.5</b> 100

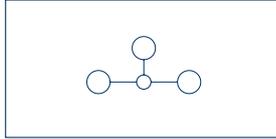
**RK 2.5-4 .../STB**



Feed-through terminal  
2 connections

Screw connection	
48 x 6 x 51.5	
48 x 6 x 47	
Qty.	
RK 2.5-4/STB BG	<b>1008.2</b> 100
RK 2.5-4/STB BU	<b>1008.5</b> 100

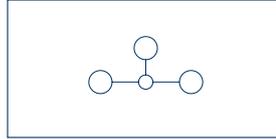
**RK 2.5-4/35**



Feed-through terminal  
2 connections

Screw connection	
48 x 6 x 47	
Qty.	
RK 2.5-4/35 BG	<b>1577.2</b> 100
RK 2.5-4/35 BU	<b>1577.5</b> 100

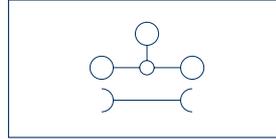
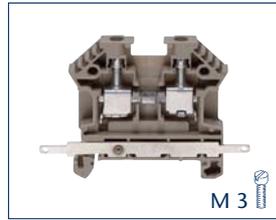
**RK 2.5-4/35 STB**



Feed-through terminal  
2 connections

Screw connection	
48 x 6 x 47	
Qty.	
RK 2.5-4/35 STB BG	<b>17049.2</b> 100
RK 2.5-4/35 STB BU	<b>17049.5</b> 100

**RK 2.5-4/35 .../SAS**



Feed-through terminal  
2 connections with additional  
screen connection

Screw connection	
62.5 x 6 x 47	
Qty.	
RK 2.5-4/35/SAS BG	<b>1167.2</b> 100

IEC	UL	CSA
800	600	600
32	40	40
4   22-11		
8   3		
A4   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
12		
0.5-1.0   Slotted M 3		
PA 6.6   -40 to +105°C		
1   1		

IEC	UL	CSA
800	600	600
32	40	40
4   22-11		
8   3		
A4   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
12		
0.5-1.0   Slotted M 3		
PS 2,3		
PA 6.6   -40 to +105°C		
1   3		

IEC	UL	CSA
800	600	600
32	40	40
4   22-11		
8   3		
A4   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
12		
0.5-1.0   Slotted M 3		
PA 6.6   -40 to +105°C		
1   1		

IEC	UL	CSA
800	600	600
32	40	40
4   22-11		
8   3		
A4   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
12		
0.5-1.0   Slotted M 3		
PA 6.6   -40 to +105°C		
1   3		

IEC
400
32
4   22-11
8   3
A4   V2
0.2-6   -
0.2-6   0.2-4
0.2-6
12
0.5-1.0   Slotted M 3
Fast-on 2.8
PA 6.6   -40 to +105°C
1   1

	Page	Qty.
AP 2.5-10 BG	278	50
<b>2001.2</b>		
TW 2.5-10 BG	316	50
<b>2002.2</b>		
TRS 1 BG	316	100
<b>2003.2</b>		
Q 2	289	50
<b>2019.0</b>		
QI 2 YE	289	50
<b>2740.2</b>		
Q 3	289	50
<b>2020.0</b>		
QI 3 YE	289	50
<b>2741.2</b>		
Q 4	289	20
<b>2021.0</b>		
QI 4 YE	289	20
<b>2742.2</b>		
Q 10	289	10
<b>2022.0</b>		
QI 10 YE	289	10
<b>2743.2</b>		

	Page	Qty.
AP 2.5-10 BG	278	50
<b>2001.2</b>		
TW 2.5-10 BG	316	50
<b>2002.2</b>		
TRS 1 BG	316	100
<b>2003.2</b>		
Q 2	289	50
<b>2019.0</b>		
QI 2 YE	289	50
<b>2740.2</b>		
Q 3	289	50
<b>2020.0</b>		
QI 3 YE	289	50
<b>2741.2</b>		
Q 4	289	20
<b>2021.0</b>		
QI 4 YE	289	20
<b>2742.2</b>		
Q 10	289	10
<b>2022.0</b>		
QI 10 YE	289	10
<b>2743.2</b>		

	Page	Qty.
AP 2.5-10 BG	278	50
<b>2001.2</b>		
TW 2.5-10 BG	316	50
<b>2002.2</b>		
TRS 1 BG	316	100
<b>2003.2</b>		
Q 2	289	50
<b>2019.0</b>		
QI 2 YE	289	50
<b>2740.2</b>		
Q 3	289	50
<b>2020.0</b>		
QI 3 YE	289	50
<b>2741.2</b>		
Q 4	289	20
<b>2021.0</b>		
QI 4 YE	289	20
<b>2742.2</b>		
Q 10	289	10
<b>2022.0</b>		
QI 10 YE	289	10
<b>2743.2</b>		

	Page	Qty.
AP 2.5-10 BG	278	50
<b>2001.2</b>		
TW 2.5-10 BG	316	50
<b>2002.2</b>		
TRS 1 BG	316	100
<b>2003.2</b>		
Q 2	289	50
<b>2019.0</b>		
QI 2 YE	289	50
<b>2740.2</b>		
Q 3	289	50
<b>2020.0</b>		
QI 3 YE	289	50
<b>2741.2</b>		
Q 4	289	20
<b>2021.0</b>		
QI 4 YE	289	20
<b>2742.2</b>		
Q 10	289	10
<b>2022.0</b>		
QI 10 YE	289	10
<b>2743.2</b>		

	Page	Qty.
AP 2.5-10 BG	278	50
<b>2001.2</b>		
TW 2.5-10 BG	316	50
<b>2002.2</b>		
TRS 1 BG	316	100
<b>2003.2</b>		
Q 2	289	50
<b>2019.0</b>		
QI 2 YE	289	50
<b>2740.2</b>		
Q 3	289	50
<b>2020.0</b>		
QI 3 YE	289	50
<b>2741.2</b>		
Q 4	289	20
<b>2021.0</b>		
QI 4 YE	289	20
<b>2742.2</b>		
Q 10	289	10
<b>2022.0</b>		
QI 10 YE	289	10
<b>2743.2</b>		

ES 35/K/ST BG	274	50
<b>2828.0</b>		
TA 6/1/ST	319	10
<b>2813.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

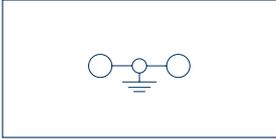
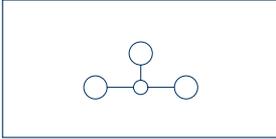
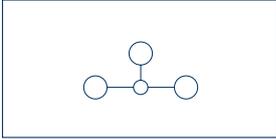
ES 35/K/ST BG	274	50
<b>2828.0</b>		
TA 6/1/ST	319	10
<b>2813.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

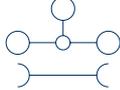
ES 35/K/ST BG	274	50
<b>2828.0</b>		
TA 6/1/ST	319	10
<b>2813.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

ES 35/K/ST BG	274	50
<b>2828.0</b>		
TA 6/1/ST	319	10
<b>2813.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

ES 35/K/ST BG	274	50
<b>2828.0</b>		
TA 6/1/ST	319	10
<b>2813.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

**Feed-through terminals RK | Protective earth terminals SL**

Screw connection system	SL 4/35	RK 6-10	RK 6-10/35	
 <ul style="list-style-type: none"> <li>• Foot can be snapped on TS 32 and TS 35 DIN rails</li> <li>• Housing made from polyamide 6.6 UL 94-V2</li> </ul>	 <p>M 3</p>	 <p>M 4</p>	 <p>M 4</p>	
Connection diagram	 <p>Protective earth terminal 2 connections</p>	 <p>Feed-through terminal 2 connections</p>	 <p>Feed-through terminal 2 connections</p>	
Connection type	Screw connection	Screw connection	Screw connection	
Size (L x W x H) mm with TS 32 mm	56 x 8 x 47	48 x 8 x 51.5	48 x 8 x 47	
Size (L x W x H) mm with TS 35 x 7.5 mm				
Type	Qty.	Qty.	Qty.	
Type colour	SL 4/35 GNYE	RK 6-10 BG	RK 6-10/35 BG	
<b>Cat. no.</b>	<b>1212.2</b>	<b>1005.2</b>	<b>1578.2</b>	
Type colour		RK 6-10 BU	RK 6-10/35 BU	
<b>Cat. no.</b>		<b>1005.5</b>	<b>1578.5</b>	
Type colour				
<b>Cat. no.</b>				
Type colour				
<b>Cat. no.</b>				
Colours available				
Rated specifications acc. to	IEC	UL	cUL	
Rated voltage, V	800	600	600	
Rated current, A	57	65	55	
Rated wire cross-section, mm <sup>2</sup>   AWG	4   22-11	10   22-8	10   22-8	
Rated impulse voltage, kV   Contamination degree	8   3	6   3	6   3	
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A4   V2	A5   V2	A5   V2	
Connection data				
Single wire (solid) / Stranded mm <sup>2</sup>	0.2-6   -	0.2-10   0.2-10	0.2-10   0.2-10	
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2-6   0.2-4	0.2-10   0.2-10	0.2-10   0.2-10	
Contact wire range, mm <sup>2</sup>	0.2-6	0.2-10	0.2-10	
Stripping length, mm	12	12	12	
Torque, Nm   Screw	0.5-1.0   Slotted M 3	1.2 - 2.0   Slotted M 4	1.2 - 2.0   Slotted M 4	
Special connection, mm				
Features				
Material of insulated housing   Temperature range	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	
Number of cross-connection channels   Test pick-off	1   1	1   1	1   1	
Accessories	Page	Qty.	Page	Qty.
End plate AP			AP 2.5-10 BG	
<b>Cat. no.</b>			<b>2001.2</b>	278 50
Partition plate TW			TW 2.5-10 BG	
<b>Cat. no.</b>			<b>2002.2</b>	316 50
Insulation plate TRS			TRS 1 BG	
<b>Cat. no.</b>			<b>2003.2</b>	316 100
Cross-connector Q		2 poles	Q 2	
<b>Cat. no.</b>			<b>2060.0</b>	289 50
Cross-connector Q / Insulated cross-connector QI			QI 2 YE	
<b>Cat. no.</b>			<b>2750.2</b>	289 50
Insulated cross-connection QI		3 poles	Q 3	
<b>Cat. no.</b>			<b>2061.0</b>	289 50
Cross-connector Q			QI 3 YE	
<b>Cat. no.</b>			<b>2751.2</b>	289 50
Insulated cross-connection QI		4 poles	Q 4	
<b>Cat. no.</b>			<b>2062.0</b>	289 20
Cross-connector Q			QI 4 YE	
<b>Cat. no.</b>			<b>2752.2</b>	289 20
Insulated cross-connection QI		10 poles	Q 10	
<b>Cat. no.</b>			<b>2063.0</b>	289 10
Cross-connector Q			QI 10 YE	
<b>Cat. no.</b>			<b>2753.2</b>	289 10
End stop ES			ES 35/K/ST BG	
<b>Cat. no.</b>			<b>2828.0</b>	274 50
Test adapter TA			TA 8/1/ST	
<b>Cat. no.</b>			<b>2817.0</b>	319 10
Screwdriver SDB	SDB 0,6x3,5	422 1	SDB 0,8x4,0	
<b>Cat. no.</b>	<b>1086.0</b>		<b>1087.0</b>	422 1
Quick marking PMC SB	PMC SB 6/50 WH	340 500	PMC SB 8/40 WH	
<b>Cat. no.</b>	<b>4702.7</b>		<b>9323.7</b>	342 400

RK 6-10/35/SAS	SL 10/35			
 <p>M 4 </p>	 <p>M 4 </p>			
				
<p>Feed-through terminal2 connections with additional screen connection</p>	<p>Protective earth terminal 2 connections</p>			
<p><b>Screw connection</b></p>	<p><b>Screw connection</b></p>			
<p>48 x 8 x 47</p>	<p>56 x 10 x 47</p>			
<p><b>Qty.</b></p> <p>RK 6-10/35/SAS BG <b>1168.2</b>      100</p>	<p><b>Qty.</b></p> <p>SL 10/35 GNYE <b>1213.2</b>      80</p>			
<p> <b>IEC</b></p>	<p> <b>UL</b>      <b>cUL</b></p>			
<p>320</p>				
<p>57</p>				
<p>10   22-8</p>	<p>10   20-6</p>			
<p>6   3</p>	<p>8   3</p>			
<p>A5   V2</p>	<p>A5   V2</p>			
<p>0.2-10   0.2-10</p>	<p>0.2-10   0.2-10</p>			
<p>0.2-10   0.2-10</p>	<p>0.2-10   0.2-10</p>			
<p>0.2-10</p>	<p>0.2-10</p>			
<p>12</p>	<p>12</p>			
<p>1.2-2.0   Slotted M 4</p>	<p>1.2-2.0   Slotted M4</p>			
<p>Fast-on 2.8</p>				
<p>PA 6.6   -40 to +105°C</p>	<p>PA 6.6   -40 to +105°C</p>			
<p>1   1</p>	<p>1   1</p>			
<p><b>Page Qty.</b></p>	<p><b>Page Qty.</b></p>			
<p>AP 2.5-10 BG <b>2001.2</b>      278      50</p>				
<p>TW 2.5-10 BG <b>2002.2</b>      316      50</p>				
<p>TRS 1 BG <b>2003.2</b>      316      100</p>				
<p>Q 2 <b>2060.0</b>      289      50</p>				
<p>QI 2 YE <b>2750.2</b>      289      50</p>				
<p>Q 3 <b>2061.0</b>      289      50</p>				
<p>QI 3 YE <b>2751.2</b>      289      50</p>				
<p>Q 4 <b>2062.0</b>      289      20</p>				
<p>QI 4 YE <b>2752.2</b>      289      20</p>				
<p>Q 10 <b>2063.0</b>      289      10</p>				
<p>QI 10 YE <b>2753.2</b>      289      10</p>				
<p>ES 35/K/ST BG <b>2828.0</b>      274      50</p>				
<p>TA 8/1/ST <b>2817.0</b>      319      10</p>				
<p>SDB 0,8x4,0 <b>1086.0</b>      422      1</p>	<p>SDB 0,8x4,0 <b>1087.0</b>      422      1</p>			
<p>PMC SB 8/40 WH <b>9323.7</b>      342      400</p>	<p>PMC SB 8/40 WH <b>9323.7</b>      342      400</p>			

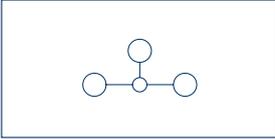
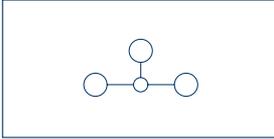
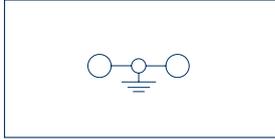
Feed-through terminals RK | Protective earth terminals SL

Screw connection system

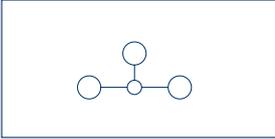
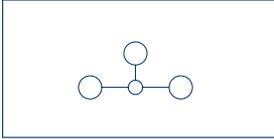
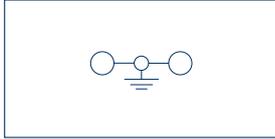


- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

RK 16	RK 16/IS	SL 16/35
		
		
Feed-through terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections

Connection type	Screw connection			Screw connection			Screw connection		
Size (L x W x H) mm with TS 32 mm	50 x 12 x 63			50 x 12 x 63			50 x 12 x 63		
Size (L x W x H) mm with TS 35 x 7.5 mm	50 x 12 x 58.5			50 x 12 x 58.5			50 x 12 x 58.5		
<b>Type</b>		<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>	
Type colour	RK 16 BG		50	RK 16/IS BG		50	SL 16/35 GNYE		50
<b>Cat. no.</b>	<b>1050.2</b>			<b>1492.2</b>			<b>1197.2</b>		
Type colour	RK 16 BU		50	RK 16/IS BU		50	SL 16/35/IS GNYE		50
<b>Cat. no.</b>	<b>1050.5</b>			<b>1492.5</b>			<b>1535.2</b>		
Type colour	RK 16/Z BG <sup>5)</sup>		50	RK 16/Z/IS BG <sup>5)</sup>		50			
<b>Cat. no.</b>	<b>1162.2</b>			<b>1493.2</b>					
Type colour	RK 16/Z BU <sup>5)</sup>		50	RK 16/Z/IS BU <sup>5)</sup>		50			
<b>Cat. no.</b>	<b>1162.5</b>			<b>1493.5</b>					
Type/colour									
<b>Cat. no.</b>									
Colours available	② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨			② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨			②		
<b>Rated specifications acc. to</b>	<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC</b>	<b>UL</b>	<b>CSA</b>
Rated voltage, V	800	600	600	800	600	600			
Rated current, A	76	65	85	76	65	85			
Rated wire cross-section, mm <sup>2</sup>   AWG	16   10-6			16   10-6			16   10-4		
Rated impulse voltage, kV   Contamination degree	8   3			8   3			12   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	B7   V2			B7   V2			B7   V2		
<b>Connection data</b>									
Single wire (solid) / Stranded mm <sup>2</sup>	2.5-25   2.5-25			2.5-25   2.5-25			2.5-25   2.5-25		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	2.5-16   2.5-16			2.5-16   2.5-16			2.5-16   2.5-16		
Contact wire range, mm <sup>2</sup>	2.5-25			2.5-25			2.5-25		
Stripping length, mm	15			15			15		
Torque, Nm   Screw	2.0-4.0   Slotted M 5			2.0-4.0   Hexagon socket M 5			2.0-4.0   Slotted M 5		
Special connection, mm									
<b>Features</b>									
Material of insulated housing   Temperature range	PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C		
Number of cross-connection channels   Test pick-off	1   -			1   -			1   -		
<b>Accessories</b>		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>
End plate AP	AP 16 BG			AP 16 BG					
<b>Cat. no.</b>	<b>2104.2</b>	278	50	<b>2104.2</b>	278	50			
Partition plate TW	TW 16 BG			TW 16 BG					
<b>Cat. no.</b>	<b>2105.2</b>	316	50	<b>2105.2</b>	316	50			
Cross-connector Q	Q 2			Q 2					
<b>Cat. no.</b>	<b>2112.0</b>	290	20	<b>2112.0</b>	290	20			
Cross-connector Q /Insulated cross-connector QI									
<b>Cat. no.</b>									
Cross-connector Q	Q 3			Q 3					
<b>Cat. no.</b>	<b>2113.0</b>	290	20	<b>2113.0</b>	290	20			
Cross-connector Q /Insulated cross-connector QI									
<b>Cat. no.</b>									
Cross-connector Q	Q 4			Q 4					
<b>Cat. no.</b>	<b>2114.0</b>	290	10	<b>2114.0</b>	290	10			
Cross-connector Q /Insulated cross-connector QI									
<b>Cat. no.</b>									
Cross-connector Q	Q 10			Q 10					
<b>Cat. no.</b>	<b>2115.0</b>	290	10	<b>2115.0</b>	290	10			
End stop ES	ES 35/K/ST BG			ES 35/K/ST BG					
<b>Cat. no.</b>	<b>2828.0</b>	274	50	<b>2828.0</b>	274	50			
Screwdriver SDB	SDB 0,8x4,0			SDB 0,8x4,0			SDB 0,8x4,0		
<b>Cat. no.</b>	<b>1087.0</b>	422	1	<b>1087.0</b>	422	1	<b>1087.0</b>	422	1
Quick marking PMC SB	PMC SB 6/50 WH			PMC SB 6/50 WH			PMC SB 6/50 WH		
<b>Cat. no.</b>	<b>4702.7</b>	340	500	<b>4702.7</b>	340	500	<b>4702.7</b>	340	500

RK 16/35 N			RK 16/35 N/IS			SL 16/35 N				
										
										
Feed-through terminal 2 connections			Feed-through terminal 2 connections			Protective earth terminal 2 connections				
Screw connection			Screw connection			Screw connection				
54 x 12 x 47			54 x 12 x 47			50 x 12 x 53				
		Qty.			Qty.			Qty.		
RK 16/35/N BG		50	RK 16/35/N/IS BG		50	SL 16/35/N GNYE		50		
<b>1511.2</b>			<b>1531.2</b>			<b>1533.2</b>				
RK 16/35/N BU		50	RK 16/35/N/IS BU		50					
<b>1511.5</b>			<b>1531.5</b>							
RK 16/35/N/Z BG <sup>5)</sup>		50	RK 16/35/N/Z-IS BG <sup>5)</sup>		50	SL 16/35/N/IS GNYE		50		
<b>1513.2</b>			<b>1532.2</b>			<b>1536.2</b>				
RK 16/35/N/Z BU <sup>5)</sup>		50	RK 16/35/N/Z-IS BU <sup>5)</sup>		50					
<b>1513.5</b>			<b>1532.5</b>							
										
IEC	CSAus	CSA	IEC	CSAus	CSA	IEC	CSAus	CSA		
800	600	600	800	600	600					
76	65	85	76	65	85					
16   10-6			16   10-6			16   10-4				
8   3			8   3			12   3				
B7   V2			B7   V2			B7   V2				
2.5-25   2.5-25			2.5-25   2.5-25			2.5-25   2.5-25				
2.5-16   2.5-16			2.5-16   2.5-16			2.5-16   2.5-16				
2.5-25			2.5-25			2.5-25				
15			15			15				
2.0-4.0   Slotted M 5			2.0-4.0   Hexagon socket M 5			2.0-4.0   Slotted M 5				
PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C				
1   -			1   -			1   -				
		Page Qty.			Page Qty.			Page Qty.		
Q 2		290 20	Q 2		290 20					
<b>2257.0</b>			<b>2257.0</b>							
Q 3		290 20	Q 3		290 20					
<b>2258.0</b>			<b>2258.0</b>							
Q 4		290 10	Q 4		290 10					
<b>2265.0</b>			<b>2265.0</b>							
Q 10		290 10	Q 10		290 10					
<b>2266.0</b>			<b>2266.0</b>							
ES 35/K/ST BG		274 50	ES 35/K/ST BG		274 50					
<b>2828.0</b>			<b>2828.0</b>							
SDB 0,8x4,0		422 1	SDB 0,8x4,0		422 1	SDB 0,8x4,0		422 1		
<b>1087.0</b>			<b>1087.0</b>			<b>1087.0</b>				
PMC SB 6/50 WH		340 500	PMC SB 6/50 WH		340 500	PMC SB 6/50 WH		340 500		
<b>4702.7</b>			<b>4702.7</b>			<b>4702.7</b>				

5) with housing pegs

Feed-through terminals RK | Protective earth terminals SL

Screw connection system

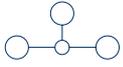
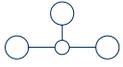
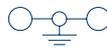


- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

RK 35	RK 35/IS	SL 35/35
Feed-through terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections

Connection type	Screw connection			Screw connection			Screw connection		
Size (L x W x H) mm with TS 32 mm	58 x 16 x 76			58 x 16 x 76			58 x 16 x 76		
Size (L x W x H) mm with TS 35 x 7.5 mm	58 x 16 x 71.5			58 x 16 x 71.5			58 x 16 x 71.5		
<b>Type</b>		<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>	
Type colour	RK 35 BG			RK 35/IS BG			SL 35/35 GNYE		
<b>Cat. no.</b>	<b>1052.2</b>	20		<b>1494.2</b>	20		<b>1199.2</b>	20	
Type colour	RK 35 BU			RK 35/IS BU					
<b>Cat. no.</b>	<b>1052.5</b>	20		<b>1494.5</b>	20				
Type colour							SL 35/35/IS GNYE		
<b>Cat. no.</b>							<b>1537.2</b>	20	
Colours available	② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨			② ⑤ ③ ① ④ ⑥ ⑦ ⑧ ⑨			②		
<b>Rated specifications acc. to</b>	<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>
Rated voltage, V	800	600	600	800	600	600			
Rated current, A	125	110	115	125	110	115			
Rated wire cross-section, mm <sup>2</sup>   AWG	35   12-2			35   12-2			35   12-2		
Rated impulse voltage, kV   Contamination degree	8   3			8   3			8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	B9   V2			B9   V2			B9   V2		
<b>Connection data</b>									
Single wire (solid) / Stranded mm <sup>2</sup>	2.5-50   2.5-50			2.5-50   2.5-50			2.5-50   2.5-50		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	2.5-35   2.5-35			2.5-35   2.5-35			2.5-35   2.5-35		
Contact wire range, mm <sup>2</sup>	2.5-50			2.5-50			2.5-50		
Stripping length, mm	20			20			20		
Torque, Nm   Screw	2.5-5.0   Slotted M6			2.5-5.0   Hexagon socket M 6			2.5-5.0   Slotted M6		
Special connection, mm									
<b>Features</b>									
Material of insulated housing   Temperature range	PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C		
Number of cross-connection channels   Test pick-off	1   -			1   -			1   -		
<b>Accessories</b>		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>
End plate AP	AP 35 BG			AP 35 BG					
<b>Cat. no.</b>	<b>2116.2</b>	278	20	<b>2116.2</b>	278	20			
Partition plate TW	TW 35 BG			TW 35 BG					
<b>Cat. no.</b>	<b>2117.2</b>	316	20	<b>2117.2</b>	316	20			
Cross-connector Q	Q 2			Q 2					
<b>Cat. no.</b>	<b>2164.0</b>	290	20	<b>2164.0</b>	290	20			
Cross-connector Q /Insulated cross-connector QI									
<b>Cat. no.</b>									
Cross-connector Q	Q 3			Q 3					
<b>Cat. no.</b>	<b>2165.0</b>	290	20	<b>2165.0</b>	290	20			
Cross-connector Q /Insulated cross-connector QI									
<b>Cat. no.</b>									
Cross-connector Q	Q 4			Q 4					
<b>Cat. no.</b>	<b>2166.0</b>	290	10	<b>2166.0</b>	290	10			
Cross-connector Q /Insulated cross-connector QI									
<b>Cat. no.</b>									
Cross-connector Q	Q 10			Q 10					
<b>Cat. no.</b>	<b>2167.0</b>	290	10	<b>2167.0</b>	290	10			
End stop ES	ES 35/K/ST BG			ES 35/K/ST BG					
<b>Cat. no.</b>	<b>2828.0</b>	274	50	<b>2828.0</b>	274	50			
Test adapter TA									
<b>Cat. no.</b>									
Screwdriver SDB	SDB 1.2x6.5			SDB 1.2x6.5			SDB 1.2x6.5		
<b>Cat. no.</b>	<b>1088.0</b>	422	1	<b>1088.0</b>	422	1	<b>1088.0</b>	422	1
Quick marking PMC SB	PMC SB 6/50 WH			PMC SB 6/50 WH			PMC SB 6/50 WH		
<b>Cat. no.</b>	<b>4702.7</b>	340	500	<b>4702.7</b>	340	500	<b>4702.7</b>	340	500

RK 35/35 N	RK 35/35 N/IS	SL 35/35 N		
 <p>M 6</p>	 <p>M 6</p>	 <p>M 6</p>		
				
<p>Feed-through terminal 2 connections</p>	<p>Feed-through terminal 2 connections</p>	<p>Protective earth terminal 2 connections</p>		
<p><b>Screw connection</b></p>	<p><b>Screw connection</b></p>	<p><b>Screw connection</b></p>		
<p>58 x 16 x 52</p>	<p>58 x 16 x 52</p>	<p>58 x 16 x 63</p>		
<p><b>Qty.</b></p>	<p><b>Qty.</b></p>	<p><b>Qty.</b></p>		
<p>RK 35/35/N BG <b>1512.2</b> 20</p>	<p>RK 35/35/N/IS BG <b>1515.2</b> 20</p>	<p>SL 35/35 N GNYE <b>1534.2</b> 20</p>		
<p>RK 35/35/N BU <b>1512.5</b> 20</p>	<p>RK 35/35/N/IS BU <b>1515.5</b> 20</p>			
<p>RK 35/35/N/Z BG<sup>5)</sup> <b>1514.2</b> 20</p>	<p>RK 35/35/N/Z/IS BG<sup>5)</sup> <b>2719.2</b> 20</p>	<p>SL 35/35 N/IS GNYE <b>1538.2</b> 20</p>		
<p>RK 35/35/N/Z BU<sup>5)</sup> <b>1514.5</b> 20</p>	<p>RK 35/35/N/Z/IS BU<sup>5)</sup> <b>2719.5</b> 20</p>			
<p>② ⑤ ④ ⑥ ⑦ ⑨</p>	<p>② ⑤</p>	<p>②</p>		
<p><b>IEC CSAus CSA</b></p>	<p><b>IEC CSAus CSA</b></p>	<p><b>IEC CSAus CSA</b></p>		
<p>800 600 600</p>	<p>800 600 600</p>			
<p>125 110 115</p>	<p>125 110 115</p>			
<p>35   12-2</p>	<p>35   12-2</p>	<p>35   12-2</p>		
<p>8   3</p>	<p>8   3</p>	<p>8   3</p>		
<p>B9   V2</p>	<p>B9   V2</p>	<p>B9   V2</p>		
<p>2.5-50   2.5-50</p>	<p>2.5-50   2.5-50</p>	<p>2.5-50   2.5-50</p>		
<p>2.5-35   2.5-35</p>	<p>2.5-35   2.5-35</p>	<p>2.5-35   2.5-35</p>		
<p>2.5-50</p>	<p>2.5-50</p>	<p>2.5-50</p>		
<p>20</p>	<p>20</p>	<p>20</p>		
<p>2.5-5.0 Slotted M6</p>	<p>2.5-5.0 Hexagon socket M6</p>	<p>2.5-5.0 Slotted M6</p>		
<p>PA 6.6   -40 to +105°C</p>	<p>PA 6.6   -40 to +105°C</p>	<p>PA 6.6   -40 to +105°C</p>		
<p>1   -</p>	<p>1   -</p>	<p>1   -</p>		
<p><b>Page Qty.</b></p>	<p><b>Page Qty.</b></p>	<p><b>Page Qty.</b></p>		
<p>Q 2</p>	<p>Q 2</p>			
<p><b>2164.0</b> 290 20</p>	<p><b>2164.0</b> 290 20</p>			
<p>Q 3</p>	<p>Q 3</p>			
<p><b>2165.0</b> 290 20</p>	<p><b>2165.0</b> 290 20</p>			
<p>Q 4</p>	<p>Q 4</p>			
<p><b>2166.0</b> 290 10</p>	<p><b>2166.0</b> 290 10</p>			
<p>Q 10</p>	<p>Q 10</p>			
<p><b>2167.0</b> 290 10</p>	<p><b>2167.0</b> 290 10</p>			
<p>ES 35/K/ST BG</p>	<p>ES 35/K/ST BG</p>			
<p><b>2828.0</b> 274 50</p>	<p><b>2828.0</b> 274 50</p>			
<p>SDB 1.2x6.5</p>	<p>SDB 1.2x6.5</p>	<p>SDB 1.2x6.5</p>	<p>422 1</p>	
<p><b>1088.0</b></p>	<p><b>1088.0</b></p>			
<p>PMC SB 6/50 WH</p>	<p>PMC SB 6/50 WH</p>		<p>340 500</p>	
<p><b>4702.7</b></p>	<p><b>4702.7</b></p>			

5) with housing pegs

## Feed-through terminals RK | Measurement pick-off terminals MAG



The **RK 50**, **RK 95**, **RK 150** and **RK 240** terminal blocks are made of a double-layer insulation housing. The specialized construction of the clamping yoke minimizes the contact resistance between the wire and the busbar. The clamp is tightened using a hex-socket screw which creates the required torque together with the clamping yoke. Pegs are located on the plastic housings of the terminal blocks; these lock to adjacent terminals to increase the mechanical stability. A threaded **M 2.5** bolt can be attached to the injection-moulded pegs in order to further increase the mechanical stability. A diverse line of accessories offers a practical supplement to these products.



## Feed-through terminals RK | Measurement pick-off terminals MAG

### The features in detail

#### Measurement pick-off terminal MAG

The **MAG** measurement pick-off terminals allow you to tap into the voltage on the **RK 50, RK 95, RK 150** and **RK 240** terminal blocks when using wires with small cross-sections ranging from 0.2 to 10 mm<sup>2</sup>. A special socket slot in the **RK 50 to RK 240** terminal blocks enables the **MAG** supplemental connections to be added retroactively. They can be independently snapped on to the base housing of the terminal blocks. **MAG** terminals are individually snapped into the housing of the main terminal above the wire entry. The electrical contact is then established using the connection screw on the main-wire terminal of the busbar. This technical solution is safe, clever, and simplifies the wiring significantly. The rated voltage is 1000 V because of the total insulation provided by the pick-off terminal. The **PMC** quick marking system can be used for labelling the terminals.



#### Inlay plate EP

When connecting to rectangular conductors, you are required to attach an inlay plate in the clamping yoke. The **EP** inlay plates correct the V-shaped form of the clamping yoke to increase the contact area to a maximum on both sides of the conductor.



#### Individual covers AD

VDE regulations require that the mains terminals be covered. The yellow **AD** covers are marked with a lightning bolt symbol and are snapped on from above. They cover the screw heads on the terminal block so that the clamping point can not be reached while under live voltage.



#### External insulated cross-connection AQI

The **RK 50-, RK 95-, RK 150-** and **RK 240** can be connected electrically to each other within the same rated cross-section range by using 2-pole or 3-pole external cross-connectors. The external cross-connectors are designed to match the rated current of the corresponding terminal block.



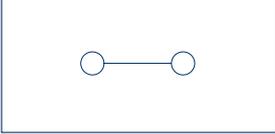
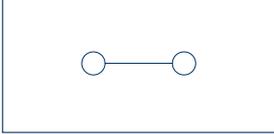
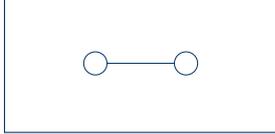
Feed-through terminals RK | Measurement pick-off terminals MAG

Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

RK 50	RK 95	RK 150
		
		
Feed-through terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections

Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Banded wire up to mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

Insulated cross-connector AQI, 2-pole

Cat. no.

Insulated cross-connector AQU, 3-pole

Cat. no.

Cover AD

Cat. no.

Inlay profile EP

Cat. no.

Measurement pick-off terminal MAG

Cat. no.

End stop ES

Cat. no.

Test adapter TA

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

Screw connection

79 x 20 x 82

79 x 20 x 76.5

Qty.

RK 50 BG

**1120.2**

10

RK 50 BU

**1120.5**

10

Screw connection

84 x 25 x 94

84 x 25 x 88.5

Qty.

RK 95 BG

**1122.2**

10

RK 95 BU

**1122.5**

10

Screw connection

93 x 31 x 118.5

93 x 31 x 112.8

Qty.

RK 150 BG

**1124.2**

5

RK 150 BU

**1124.5**

5

② ⑤ ④ ⑥

IEC UL CSA

1000 600 600

150 150 150

50 | 4/0-2

8 | 3

B10 | V2

16-50 | 25-50

25-50 | 25-50

16-50

27

3-6 | Hexagon socket M6

11.8 x 5

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AQI 2/50 YE

**2763.2**

293 5

AQI 3/50 YE

**2764.2**

293 5

AD 1/50/B YE

**2810.0**

311 10

EP 50

**2274.0**

41 10

MAG 50 BG

**1121.2**

41 10

ES 35/K/ST BG

**2828.0**

274 50

ISKS 5

**2818.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

② ⑤ ④ ⑥

IEC UL CSA

1000 600 600

232 230 230

95 | 4/0-2

8 | 3

B12 | V2

25-95 | 35-95

35-95 | 35-95

25-95

30

6-12 | Hexagon socket M8

16 x 6

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AQI 2/95 YE

**2765.2**

294 5

AQI 3/95 YE

**2766.2**

294 5

AD 1/95/B YE

**2804.0**

311 10

EP 95

**2275.0**

41 10

MAG 95 BG

**1123.2**

41 10

ES 35/K/ST BG

**2828.0**

274 50

ISKS 6

**2772.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

② ⑤ ④ ⑥

IEC UL CSA

1000 600 600

309 275 275

150 | 300-2

8 | 3

B14 | V2

35-150 | 50-150

50-150 | 50-150

35-150

38

10-20 | Hexagon socket M10

20 x 8

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AQI 2/150 YE

**2767.2**

294 5

AQI 3/150 YE

**2768.2**

294 5

AD 1/150/B YE

**2806.0**

311 10

EP 150

**2277.0**

41 10

MAG 150/240 BG

**1125.2**

41 10

ES 35/K/ST BG

**2828.0**

274 50

ISKS 8

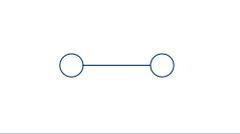
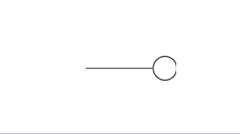
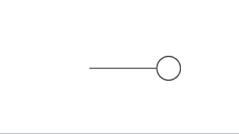
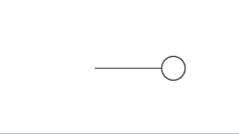
**2773.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

RK 240	MAG 50	MAG 95	MAG 150/240	EP
 M 10	 M 4	 M 4	 M 4	
				
Feed-through terminal 2 connections	Pick-off terminal 1 connection	Pick-off terminal 1 connection	Pick-off terminal 1 connection	Inlay plate
<b>Screw connection</b> 93 x 36 x 132 93 x 36 x 126.3	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
RK 240 BG <b>1126.2</b> 5	MAG 50 BG <b>1121.2</b> 10	MAG 95 BG <b>1123.2</b> 10	MAG 150/240 BG <b>1125.2</b> 10	EP 50 <b>2274.0</b> 10
RK 240 BU <b>1126.5</b> 5				EP 95 <b>2275.0</b> 10
				EP 150 <b>2277.0</b> 10
				EP 240 <b>2360.0</b> 10
<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	
1000 600 600	1000	1000	1000	
380 370 370	57	57	57	
240   500-2/0	10   22-8	10   22-8	10   22-8	
8   3	6   3	6   3	6   3	
B16   V2	A5   V2	A5   V2	A5   V2	
70-240   70-240	0.2-10   0.2-10	0.2-10   0.2-10	0.2-10   0.2-10	
70-240   70-185	0.2-10   0.2-10	0.2-10   0.2-10	0.2-10   0.2-10	
70-240	0.2-10	0.2-10	0.2-10	
38	12	12	12	
10-20   Hexagon socket M10 20 x 12	1.2-2.0   Slotted M4	1.2-2.0   Slotted M4	1.2-2.0   Slotted M4	
PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	
-   -	-   -	-   -	-   -	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
AQI 2/240 YE <b>2769.2</b> 294 5				
AQI 3/240 YE <b>2770.2</b> 294 5				
AD 1/240/B YE <b>2808.0</b> 311 10				
EP 240 <b>2360.0</b> 41 10				
MAG 150/240 BG <b>1125.2</b> 41 10				
ES 35/K/ST BG <b>2828.0</b> 274 50				
ISKS 8 <b>2773.0</b> 422 1	SDB 0,8x4,0 <b>1087.0</b> 422 1	SDB 0,8x4,0 <b>1087.0</b> 422 1	SDB 0,8x4,0 <b>1087.0</b> 422 1	
PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	

Feed-through terminals RK | Protective earth terminals SL

Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Insulation plate TRS

Cat. no.

Cross-connector Q

Cat. no.

Insulated cross-connection QI

Cat. no.

Cross-connector QI

Cat. no.

Cross-connector Q

Cat. no.

Insulated cross-connector Q

Cat. no.

Insulated cross-connector QI

Cat. no.

End stop ES

Cat. no.

Test adapter TA

Cat. no.

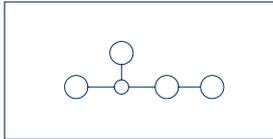
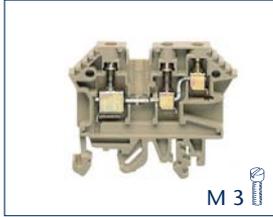
Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

RK 2.5-4 ZR



Feed-through terminal  
3 connections

Screw connection

57,5 x 6 x 51.5

57,5 x 6 x 47

Qty.

RK 2.5-4 ZR BG

**1210.2**

100

RK 2.5-4 ZR BU

**1210.5**

100

② ⑤

IEC

500

24

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

12

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 | 1

Page Qty.

AP 2.5-4/R BG

**2574.2**

278

50

TRS 1 BG

**2003.2**

316

100

Q 2

**2019.0**

289

50

QI 2 YE

**2740.2**

289

50

Q 3

**2020.0**

289

50

QI 3 YE

**2741.2**

289

50

Q 4

**2021.2**

289

20

QI 4 YE

**2742.2**

289

20

Q 10

**2022.0**

289

10

QI 10 YE

**2743.2**

289

10

ES 35/K/ST BG

**2828.0**

274

50

TA 6/1/ST

**2813.0**

319

10

SDB 0.6x3.5

**1086.0**

422

1

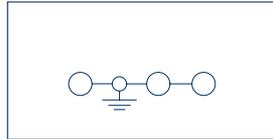
PMC SB 6/50 WH

**4702.7**

340

500

SL 2.5/35 ZR



Protective earth terminal  
3 connections

Screw connection

62 x 6 x 47

②

IEC

500

24

2.5 | 22-12

6 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

-

Page Qty.

AP 2.5-4/R GN

**2574.1**

278

20

Q 2

**2019.0**

289

50

QI 2 YE

**2740.2**

289

50

Q 3

**2020.0**

289

50

QI 3 YE

**2741.2**

289

50

Q 4

**2021.2**

289

20

QI 4 YE

**2742.2**

289

20

Q 10

**2022.0**

289

10

QI 10 YE

**2743.2**

289

10

ES 35/K/ST BG

**2828.0**

274

50

TA 6/1/ST

**2813.0**

319

10

SDB 0.5x3,0

**1085.0**

422

1

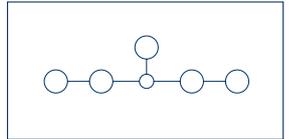
PMC SB 6/50 WH

**4702.7**

340

500

RK 2.5-4 ZRL



Feed-through terminal  
4 connections

Screw connection

67 x 6 x 51.5

67 x 6 x 47

② ⑤

IEC

500

24

4 | 22-12

6 | 3

A4 | V2

0.2-2.5 | -

0.2-4 | 0.2-2.5

0.2-2.5

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 | 1

Page Qty.

AP 2.5/RL BG

**2575.2**

278

50

TRS 1

**2003.2**

316

100

Q 2

**2019.0**

289

50

QI 2 YE

**2740.2**

289

50

Q 3

**2020.0**

289

50

QI 3 YE

**2741.2**

289

50

Q 4

**2021.2**

289

20

QI 4 YE

**2742.2**

289

20

Q 10

**2022.0**

289

10

QI 10 YE

**2743.2**

289

10

ES 35/K/ST BG

**2828.0**

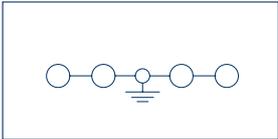
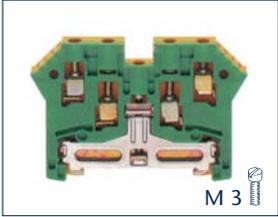
274

50

TA 6/1/ST

**2813.0**

**SL 2.5/35 ZRL**



Protective earth terminal  
4 connections

**Screw connection**

62 x 6 x 47

	<b>Qty.</b>
SL 2.5/35/ZRL GNYE <b>1062.2</b>	100

**IEC**

2.5   22-12	
6   3	
A3   V2	
0.2-2.5   -	
0.2-2.5   0.2-2.5	
0.2-2.5	
9	
0.5-1.0   Slotted M 3	

PA 6.6 | -40 to +105°C

	<b>Page</b>	<b>Qty.</b>
AP 2.5/RL GN <b>2575.1</b>	278	20

SDB 0.5x3,0 <b>1085.0</b>	422	1
PMC SB 6/50 WH <b>4702.7</b>	340	500

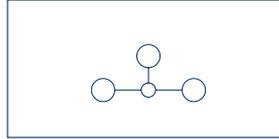
## Four-wire motor-connection block VMAB

### Screw connection system

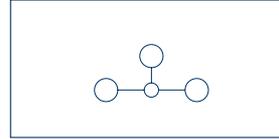
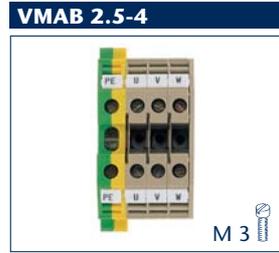


- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V2

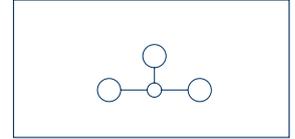
### Connection diagram



Four-wire motor-connection block  
8 connections



Four-wire motor-connection block  
8 Connections



Four-wire motor-connection block  
8 connections

### Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

Cat. no.

Partition plate TW

Cat. no.

Insulation plate TRS

Cat. no.

Cross-connector Q

Cat. no.

Insulated cross-connection QI

Cat. no.

Cross-connector Q

Cat. no.

Insulated cross-connection QI

Cat. no.

Cross-connector Q

Cat. no.

Insulated cross-connection QI

Cat. no.

End stop ES

Cat. no.

Test adapter TA

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

### Screw connection

52 x 23 x 47

### Qty.

VMAB 2.5

1520.2

10

### Screw connection

56 x 28 x 47

### Qty.

VMAB 2.5-4

1521.2

10

### Screw connection

56 x 36 x 47

### Qty.

VMAB 6-10

1522.2

10

IEC	UL	cUL
800	600	600
24	20	20
2.5   22-14		
8   3		
A3   V2		

0.2-4   -
0.2-4   0.2-2.5
0.2-4
7
0.4-0.8   Slotted M 2.5
-

IEC	UL	CSA
800	600	600
32	32	32
4   22-10		
6   3		
A4   V2		

0.2-6   -
0.2-6   0.2-4
0.2-6
12
0.5-1.0   Slotted M 3
-

IEC	UL	CSA
800	600	600
57	65	65
10   22-8		
6   3		
A5   V2		

0.2-10   0.2-10
0.2-10   0.2-10
0.2-10
12
1.2-2.0   Slotted M 4
-

PA 6.6   -40 to +105°C
1   3

PA 6.6   -40 to +105°C
1   3

PA 6.6   -40 to +105°C
1   3

	Page	Qty.
AP 2.5-10 BG	278	50
2001.2		
TW 2.5-10 BG	316	50
2002.2		
TRS 3 BG	316	100
2566.2		
Q 2	288	50
2567.0		
Q 3	288	50
2568.0		
Q 4	288	20
2569.0		
Q 10	288	10
2570.0		
ES 35/K/ST BG	274	50
2828.0		
TA 5/1/ST	318	10
2812.0		
SDB 0.5x3,0	422	1
1085.0		
PMC SB 5/50 WH	339	500
4600.7		

	Page	Qty.
AP 2.5-10 BG	278	50
2001.2		
TW 2.5-10 BG	316	50
2002.2		
TRS 1 BG	316	100
2003.2		
Q 2	289	50
2019.0		
QI 2 YE	289	50
2740.2		
Q 3	289	50
2020.0		
QI 3 YE	289	50
2741.2		
Q 4	289	20
2021.0		
QI 4 YE	289	20
2742.2		
Q 10	289	10
2022.0		
QI 10 YE	289	10
2743.2		
ES 35/K/ST BG	274	50
2828.0		
TA 6/1/ST	319	10
2813.0		
SDB 0.6x3.5	422	1
1086.0		
PMC SB 6/50 WH	340	500
4702.7		

	Page	Qty.
AP 2.5-10 BG	278	50
2001.2		
TW 2.5-10 BG	316	50
2002.2		
TRS 1 BG	316	100
2003.2		
Q 2	289	50
2060.0		
QI 2 YE	289	50
2750.2		
Q 3	289	50
2061.0		
QI 3 YE	289	50
2751.2		
Q 4	289	20
2062.0		
QI 4 YE	289	20
2752.2		
Q 10	289	10
2063.0		
QI 10 YE	289	10
2753.2		
ES 35/K/ST BG	274	50
2828.0		
TA 8/1/ST	319	10
2817.0		
SDB 0,8x4,0	422	1
1087.0		
PMC SB 8/40 WH	342	400
9323.7		

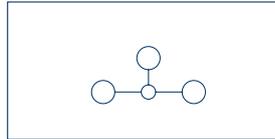
# Five-wire mains-connection block FNAB

## Screw connection system

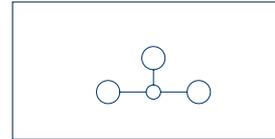


- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V2

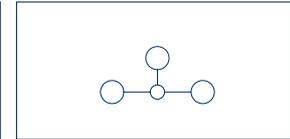
## Connection diagram



Five-wire mains-connection block  
10 connections



Five-wire mains-connection block  
10 connections



Five-wire mains-connection block  
10 connections

## Connection type

Size (L x W x H) mm with TS 32 mm  
Size (L x W x H) mm with TS 35 x 7.5 mm

## Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

## Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

## Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

## Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

## Accessories

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Cross-connector Q

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

Cross-connector Q

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

Cross-connector Q

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

End stop ES

**Cat. no.**

Test adapter TA

**Cat. no.**

Screwdriver SDB

Cat. no./Qty.

Quick marking PMC SB

Cat. no./Qty.

## Screw connection

52 x 28 x 47

## Qty.

FNAB 2.5

**1523.2**

10

## Screw connection

56 x 34 x 47

## Qty.

FNAB 2.5-4

**1524.2**

10

## Screw connection

55 x 36 x 47

## Qty.

FNAB 6-10

**1525.2**

10

## IEC UL cUL

800 600 600

24 20 20

2.5 | 22-14

8 | 3

A3 | V2

## IEC UL CSA

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

1 | 4

## IEC UL CSA

800 600 600

32 32 32

4 | 22-10

8 | 3

A4 | V2

## IEC UL CSA

0.2-6 | -

0.6-6 | 0.2-4

0.2-6

12

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 | 4

## IEC UL CSA

800 600 600

57 65 65

10 | 22-8

6 | 3

A5 | V2

## IEC UL CSA

0.2-10 | 0.2-10

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

-

PA 6.6 | -40 to +105°C

1 | 4

## Page Qty.

AP 2.5-10 BG

**2001.2** 278 50

TW 2.5-10 BG

**2002.2** 316 50

TRS 3 BG

**2566.2** 316 100

Q 2

**2567.0** 288 50

Q 3

**2568.0** 288 50

Q 4

**2569.0** 288 20

Q 10

**2570.0** 288 10

ES 35/K/ST BG

**2828.0** 274 50

TA 5/1/ST

**2812.0** 318 10

SDB 0.5x3,0

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

## Page Qty.

AP 2.5-10 BG

**2001.2** 278 50

TW 2.5-10 BG

**2002.2** 316 50

TRS 1 BG

**2003.2** 316 100

Q 2

**2019.0** 289 50

QI 2 YE

**2740.2** 289 50

Q 3

**2020.0** 289 50

QI 3 YE

**2741.2** 289 50

Q 4

**2021.0** 289 20

QI 4 YE

**2742.2** 289 20

Q 10

**2022.0** 289 10

QI 10 YE

**2743.2** 289 10

ES 35/K/ST BG

**2828.0** 274 50

TA 6/1/ST

**2813.0** 319 10

SDB 0.6x3.5

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

## Page Qty.

AP 2.5-10

**2001.2** 278 50

TW 2.5-10

**2002.2** 316 50

TRS 1 BG

**2003.2** 316 100

Q 2

**2060.0** 289 50

QI 2 YE

**2750.2** 289 50

Q 3

**2061.0** 289 50

QI 3 YE

**2751.2** 289 50

Q 4

**2062.0** 289 20

QI 4 YE

**2752.2** 289 20

Q 10

**2063.0** 289 10

QI 10 YE

**2753.2** 289 10

ES 35/K/ST BG

**2828.0** 274 50

TA 8/1/ST

**2817.0** 319 10

SDB 0.8x4,0

**1087.0** 422 1

PMC SB 8/40 WH

**9323.7** 342 400

## Double-level terminal blocks RKD



### Double-level terminal blocks RKD 2.5

The **ZIKD 2.5** terminal blocks have a width of 5 mm and are available in a variety of designs. They have three levels with six connection points and can handle solid or stranded wires up to 2.5 mm<sup>2</sup> with a rated current up to 24 amps. The upper and lower levels are connected electrically in the SV variants.

The **RKD** terminal blocks can be cross-connected at both levels using the **Q** cross-connection system.

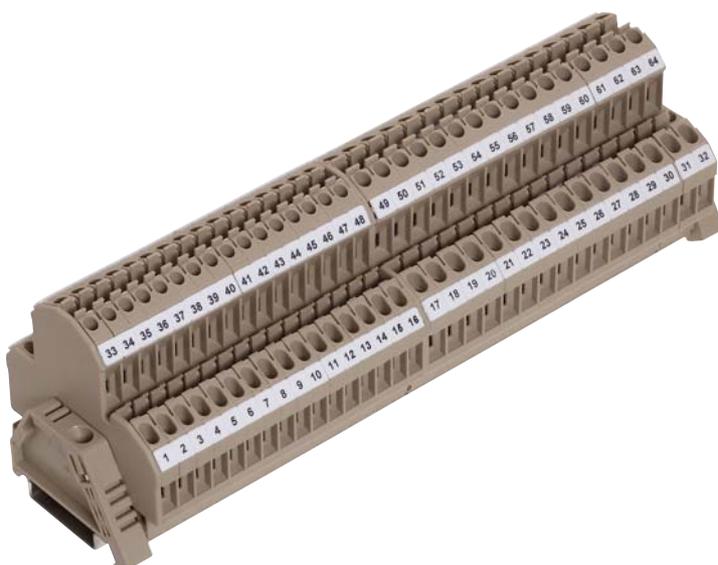
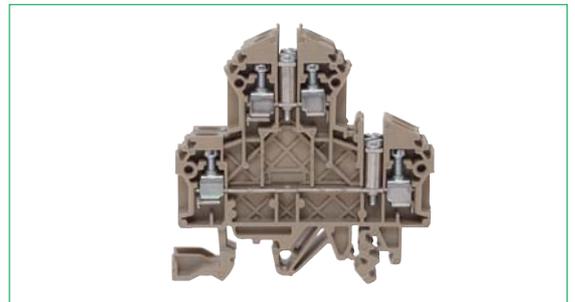


### Double-level terminal blocks RKD 4

The **RKD 4** terminal blocks have a width of 6 mm and are available in a variety of designs. They have two levels with four connection points and can handle solid or stranded wires up to 4 mm<sup>2</sup> with a rated current up to 32 amps. The upper and lower levels are connected electrically in the SV variants.

The **RKD 4/D** variants are designed for a variety of switching tasks with electronics components such as diodes, resistors and varistors.

The **RKD** terminal blocks can be cross-connected at both levels using the **Q** cross-connection system.



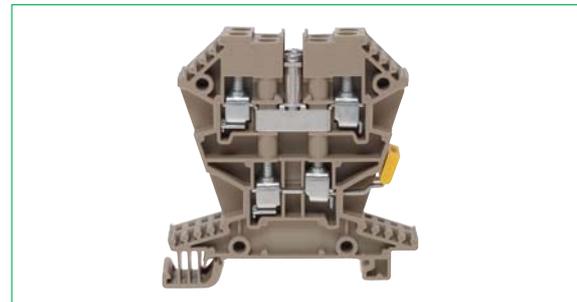
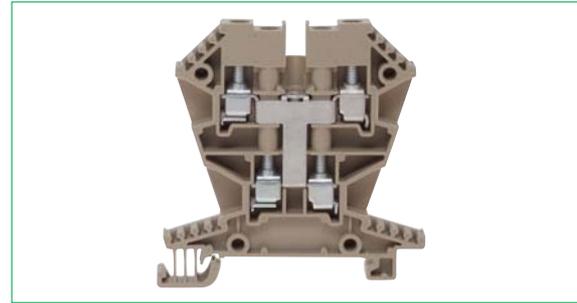
## Double-level terminal blocks RKDG

### Double-level terminal blocks RKDG 4

The **RKDG 4** terminal blocks have a width of 6 mm. They have two levels with four connection points and can handle solid or stranded wires up to 4 mm<sup>2</sup> with a rated current up to 32 amps. The special feature of these terminal blocks is that their tightening screw is accessible even when wired.

The upper and lower levels are connected electrically in the **SV** variants.

The **RKDG** terminal blocks can be cross-connected at both levels using the **Q** cross-connection system or the **AQI** external cross-connection system.



## Double-level terminal blocks RKD

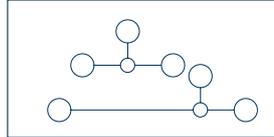
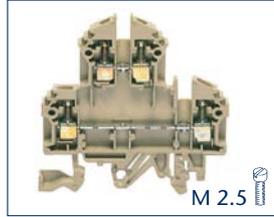
### Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

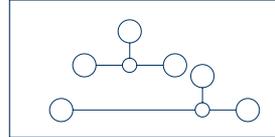
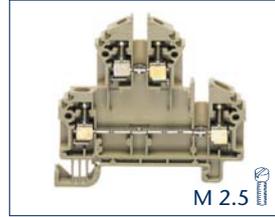
### Connection diagram

#### RKD 2.5



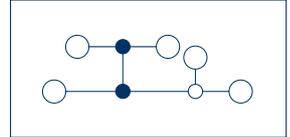
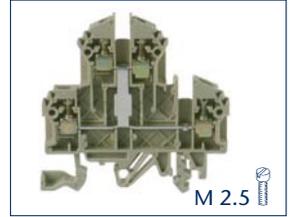
Feed-through terminal  
2x2 connections

#### RKD 2.5/35



Feed-through terminal  
2x2 connections

#### RKD 2.5 SV



Feed-through terminal  
4 connections

### Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

End stop ES

**Cat. no.**

Test adapter TA

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

### Screw connection

60.2 x 5 x 65.5

60.2 x 5 x 61

**Qty.**

RKD 2.5 BG

**1206.2**

RKD 2.5 BU

**1206.5**

### Screw connection

60.2 x 5 x 56

**Qty.**

RKD 2.5/35 BG

**1127.2**

RKD 2.5/35 BU

**1127.5**

### Screw connection

60.2 x 5 x 65.5

60.2 x 5 x 61

**Qty.**

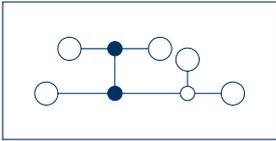
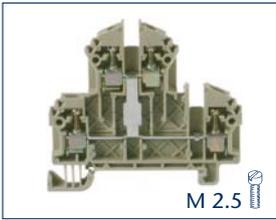
RKD 2.5 SV BG

**1209.2**

RKD 2.5 SV BU

**1209.5**

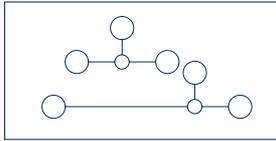
**RKD 2.5/35 SV**



Feed-through terminal  
4 connections

Screw connection	
60.2 x 5 x 56	
Qty.	
RKD 2.5/35/SV BG	1579.2
RKD 2.5/35/SV BU	1579.5

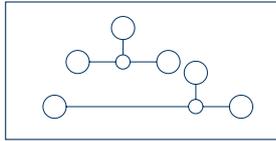
**RKD 4**



Feed-through terminal  
2x2 connections

Screw connection	
60.2 x 6 x 65.5	
60.2 x 6 x 61	
Qty.	
RKD 4 BG	1020.2
RKD 4 BU	1020.5

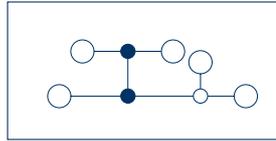
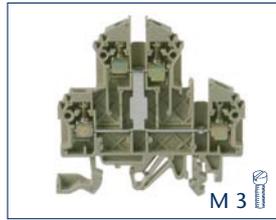
**RKD 4/35**



Feed-through terminal  
2x2 connections

Screw connection	
60.2 x 6 x 56	
Qty.	
RKD 4/35 BG	1128.2
RKD 4/35 BU	1128.5

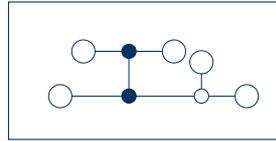
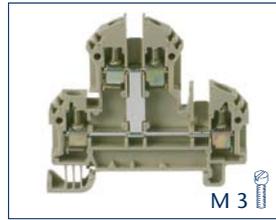
**RKD 4/SV**



Feed-through terminal  
4 connections

Screw connection	
60.2 x 6 x 65.5	
60.2 x 6 x 61	
Qty.	
RKD 4/SV BG	1027.2
RKD 4/SV BU	1027.5

**RKD 4/35/SV**



Feed-through terminal  
4 connections

Screw connection	
60.2 x 6 x 56	
Qty.	
RKD 4/35/SV BG	1581.2
RKD 4/35/SV BU	1581.5

IEC	CSAus	CSA
500	300	300
24	20	20
2.5   22-14		
6   3		
A3   V2		
0.2-4   -		
0.2-4   0.2-2.5		
0.2-4		
7		
0.4-0.8   Slotted M 2.5		
-		
PA 6.6   -40 to +105°C		
1   1		
Page	Qty.	
AP 4 BG	278	20
<b>2101.2</b>		

IEC	UL	CSA
500	300	300
32	30	30
4   22-12		
6   3		
A4   V2		
0.2-4   -		
0.2-4   0.2-4		
0.2-4		
9		
0.5-1.0   Slotted M 3		
-		
PA 6.6   -40 to +105°C		
2   1		
Page	Qty.	
AP 4 BG	278	20
<b>2101.2</b>		

IEC	CSAus	CSA
500	300	300
32	30	30
4   22-12		
6   3		
A4   V2		
0.2-4   -		
0.2-4   0.2-4		
0.2-4		
9		
0.5-1.0   Slotted M 3		
-		
PA 6.6   -40 to +105°C		
2   1		
Page	Qty.	
AP 4 BG	278	20
<b>2101.2</b>		

IEC	UL	CSA
500	300	300
32	30	30
4   22-12		
6   3		
A4   V2		
0.2-4   -		
0.2-4   0.2-4		
0.2-4		
9		
0.5-1.0   Slotted M 3		
-		
PA 6.6   -40 to +105°C		
1   1		
Page	Qty.	
AP 4 BG	278	20
<b>2101.2</b>		

IEC	CSAus	CSA
500	300	300
32	30	30
4   22-12		
6   3		
A4   V2		
0.2-4   -		
0.2-4   0.2-4		
0.2-4		
9		
0.5-1.0   Slotted M 3		
-		
PA 6.6   -40 to +105°C		
1   1		
Page	Qty.	
AP 4 BG	278	20
<b>2101.2</b>		

TRS 3 BG		
<b>2566.2</b>	316	100
Q 2		
<b>2567.0</b>	288	50
Q 3		
<b>2568.0</b>	288	50
Q 4		
<b>2569.0</b>	288	20
Q 10		
<b>2570.0</b>	288	10
ES 35/K/ST BG		
<b>2828.0</b>	274	50
TA 6/1/S		
<b>2821.0</b>	318	10
SDB 0.5x3,0		
<b>1085.0</b>	422	1
PMC SB 5/50 WH		
<b>4600.7</b>	339	500

TRS 3 BG		
<b>2566.2</b>	316	100
Q 2		
<b>2087.0</b>	289	50
Q 3		
<b>2088.0</b>	289	50
Q 4		
<b>2089.0</b>	288	20
Q 10		
<b>2090.0</b>	289	10
ES 35/K/ST BG		
<b>2828.0</b>	274	50
TA 6/1/S		
<b>2822.0</b>	318	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

TRS 3 BG		
<b>2566.2</b>	316	100
Q 2		
<b>2087.0</b>	289	50
Q 3		
<b>2088.0</b>	289	50
Q 4		
<b>2089.0</b>	288	20
Q 10		
<b>2090.0</b>	289	10
ES 35/K/ST BG		
<b>2828.0</b>	274	50
TA 6/1/S		
<b>2822.0</b>	318	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

TRS 3 BG		
<b>2566.2</b>	316	100
Q 2		
<b>2087.0</b>	289	50
Q 3		
<b>2088.0</b>	289	50
Q 4		
<b>2089.0</b>	288	20
Q 10		
<b>2090.0</b>	289	10
ES 35/K/ST BG		
<b>2828.0</b>	274	50
TA 6/1/S		
<b>2822.0</b>	318	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

TRS 3 BG		
<b>2566.2</b>	316	100
Q 2		
<b>2087.0</b>	289	50
Q 3		
<b>2088.0</b>	289	50
Q 4		
<b>2089.0</b>	288	20
Q 10		
<b>2090.0</b>	289	10
ES 35/K/ST BG		
<b>2828.0</b>	274	50
TA 6/1/S		
<b>2822.0</b>	318	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

## Double-level terminal blocks RKD

### Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

### Connection diagram

### Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

**Cat. no.**

Cross-connector Q

**Cat. no.**

2 poles

Cross-connector Q

**Cat. no.**

3 poles

Cross-connector Q

**Cat. no.**

4 poles

Cross-connector Q

**Cat. no.**

10 poles

End stop ES

**Cat. no.**

Test adapter TA

**Cat. no.**

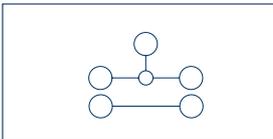
Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

### RKDG 4



Feed-through terminal  
2x2 connections

### Screw connection

58,5 x 6 x 60

### Qty.

RKDG 4 BG

**2584.2**

100

RKDG 4 BU

**2584.5**

100

② ⑤

**IEC**

**CSAus**

**CSA**

500

300

300

32

30

30

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 | -

APG 4 BG

**2586.2**

Page

Qty.

278

20

Q 2

**2087.0**

289

50

Q 3

**2088.0**

289

50

Q 4

**2089.0**

288

20

Q 10

**2090.0**

289

10

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.6x3.5

**1086.0**

422

1

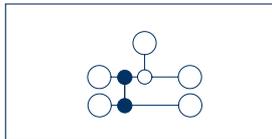
PMC SB 6/50 WH

**4702.7**

340

500

### RKDG 4/SV



Feed-through terminal  
4 connections

### Screw connection

58,5 x 6 x 60

### Qty.

RKDG 4/SV BG

**17048.2**

100

RKDG 4/SV BU

**17048.5**

100

② ⑤

**IEC**

**UL**

**CSA**

500

-

-

32

-

-

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 | -

APG 4 BG

**2586.2**

Page

Qty.

278

20

Q 2

**2087.0**

289

50

Q 3

**2088.0**

289

50

Q 4

**2089.0**

288

20

Q 10

**2090.0**

289

10

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.6x3.5

**1086.0**

422

1

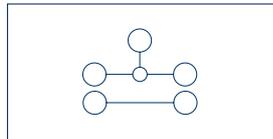
PMC SB 6/50 WH

**4702.7**

340

500

### RKD 4/800 V



Feed-through terminal  
2x2 connections

### Screw connection

60.2 x 7,5 x 65.5

60.2 x 7,5 x 61

### Qty.

RKD 4/800 V

**1025.2**

80

RKD 4 SV/800 V BG

**1026.2**

80

②

**IEC**

**UL**

**CSA**

800

600

600

32

30

30

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | -

AP 4 800 V BG

**2159.2**

Page

Qty.

278

20

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.6x3.5

**1086.0**

422

1

PMC SB 6/50 WH

**4702.7**

340

500

# Double-level terminals with electronic components RKD

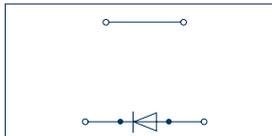
## Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

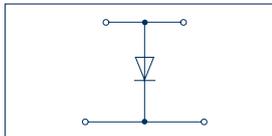
## Connection diagram

### RKD 4/D0



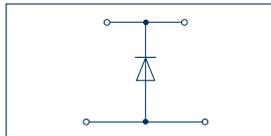
Double-level terminals with electronic components

### RKD 4/D1



Double-level terminals with electronic components

### RKD 4/D2



Double-level terminals with electronic components

## Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

## Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

## Ratings

Rated voltage, V

Rated current, A

Diode reverse voltage, V

Diode current, A

Diode type

Resistance

Rated wire cross-section, mm<sup>2</sup> | AWG

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

## Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

## Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

## Accessories

End plate AP

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Socket plug STB

**Cat. no.**

Test plug PS

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

End stop ES

**Cat. no.**

Test adapter TA

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

## Screw connection

60.2 x 6 x 65.5

60.2 x 6 x 61

## Qty.

RKD 4/D0 BG

**2319.2**

100

## Screw connection

60.2 x 6 x 65.5

60.2 x 6 x 61

## Qty.

RKD 4/D1 BG

**1046.2**

100

RKD 4/D1 BU

**1046.5**

100

## Screw connection

60.2 x 6 x 65.5

60.2 x 6 x 61

## Qty.

RKD 4/D2 BG

**1047.2**

100

RKD 4/D2 BU

**1047.5**

100

②

② ⑤

② ⑤

400 V AC

10

1000

1

1 N 4007

4 | 22-12

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

2 | 1

**Page**

**Qty.**

AP 4 BG

**2101.2**

278

20

TRS 3 BG

**2566.2**

316

100

STB 8.5/2.3

**2075.0**

317

50

PS 2,3

**2007.0**

317

20

Q 2

**2087.0**

289

50

Q 3

**2088.0**

289

50

Q 4

**2089.0**

288

20

Q 10

**2090.0**

289

10

ES 35/K/ST BG

**2828.0**

274

50

TA 6/1/S

**2822.0**

318

10

SDB 0.6x3.5

**1086.0**

422

1

PMC SB 6/50 WH

**4702.7**

340

500

400 V AC

10

1000

1

1 N 4007

4 | 22-12

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

2 | 1

**Page**

**Qty.**

AP 4 BG

**2101.2**

278

20

TRS 3 BG

**2566.2**

316

100

STB 8.5/2.3

**2075.0**

317

50

PS 2,3

**2007.0**

317

20

Q 2

**2087.0**

289

50

Q 3

**2088.0**

289

50

Q 4

**2089.0**

288

20

Q 10

**2090.0**

289

10

ES 35/K/ST BG

**2828.0**

274

50

TA 6/1/S

**2822.0**

318

10

SDB 0.6x3.5

**1086.0**

422

1

PMC SB 6/50 WH

**4702.7**

340

500

PA 6.6 | -40 to +105°C

2 | 1

**Page**

**Qty.**

AP 4 BG

**2101.2**

278

20

TRS 3 BG

**2566.2**

316

100

STB 8.5/2.3

**2075.0**

317

50

PS 2,3

**2007.0**

317

20

Q 2

**2087.0**

289

50

Q 3

**2088.0**

289

50

Q 4

**2089.0**

288

20

Q 10

**2090.0**

289

10

ES 35/K/ST BG

**2828.0**

274

50

TA 6/1/S

**2822.0**

318

10

SDB 0.6x3.5

**1086.0**

422

1

PMC SB 6/5

## Double-level terminals with electronic components RKD

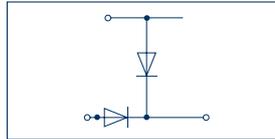
### Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

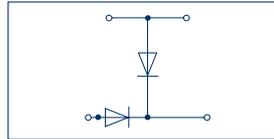
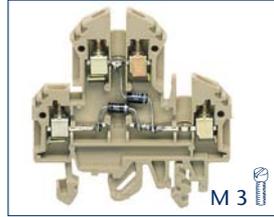
### Connection diagram

#### RKD 4/D6



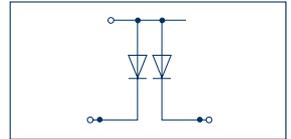
Double-level terminals with electronic components

#### RKD 4/D5



Double-level terminals with electronic components

#### RKD 4/D3



Double-level terminals with electronic components

### Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type/colour

Cat. no.

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Diode reverse voltage, V

Diode current, A

Diode type

Resistance

Rated wire cross-section, mm<sup>2</sup> | AWG

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

Cat. no.

Insulation plate TRS

Cat. no.

Socket plug STB

Cat. no.

Test plug PS

Cat. no.

Cross-connector Q

Cat. no.

Cross-connector Q

Cat. no.

Cross-connector Q

Cat. no.

Cross-connector Q

Cat. no.

End stop ES

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

### Screw connection

60.2 x 6 x 65.5

60.2 x 6 x 61

### Qty.

RKD 4/D6 BG

**2320.2**

100

### Screw connection

60.2 x 6 x 65.5

60.2 x 6 x 61

### Qty.

RKD 4/D5 BG

**2321.2**

100

### Screw connection

60.2 x 6 x 65.5

60.2 x 6 x 61

### Qty.

RKD 4/D3 BG

**2322.2**

100

②

②

②

400 V AC

10

1000

1

1 N 4007

4 | 22-12

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

2 | 1

Page Qty.

AP 4 BG

**2101.2**

278 20

TRS 3 BG

**2566.2**

316 100

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

Q 2

**2087.0**

289 50

Q 3

**2088.0**

289 50

Q 4

**2089.0**

288 20

Q 10

**2090.0**

289 10

ES 35/K/ST BG

**2828.0**

274 50

SDB 0.6x3.5

**1086.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

400 V AC

10

1000

1

1 N 4007

4 | 22-12

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

2 | 1

Page Qty.

AP 4 BG

**2101.2**

278 20

TRS 3 BG

**2566.2**

316 100

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

Q 2

**2087.0**

289 50

Q 3

**2088.0**

289 50

Q 4

**2089.0**

288 20

Q 10

**2090.0**

289 10

ES 35/K/ST BG

**2828.0**

274 50

SDB 0.6x3.5

**1086.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

400 V AC

10

1000

1

1 N 4007

4 | 22-12

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

2 | 1

Page Qty.

AP 4 BG

**2101.2**

278 20

TRS 3 BG

**2566.2**

316 100

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

Q 2

**2087.0**

289 50

Q 3

**2088.0**

289 50

Q 4

**2089.0**

288 20

Q 10

**2090.0**

289 10

ES 35/K/ST BG

**2828.0**

274 50

SDB 0.6x3.5

**1086.0**

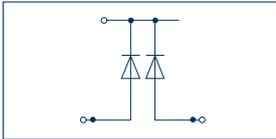
422 1

PMC SB 6/50 WH

**4702.7**

340 500

**RKD 4/D4**

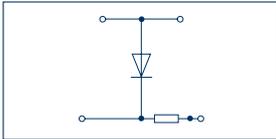


Double-level terminals with electronic components

**Screw connection**  
60.2 x 6 x 65.5  
60.2 x 6 x 61

	Qty.
RKD 4/D4 BG	100
<b>2323.2</b>	

**RKD 4/RD1**

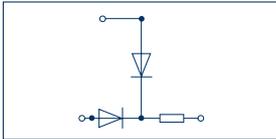


Double-level terminals with electronic components

**Screw connection**  
60.2 x 6 x 65.5  
60.2 x 6 x 61

	Qty.
RKD 4/RD1 BG	100
<b>2324.2</b>	

**RKD 4/RD5**

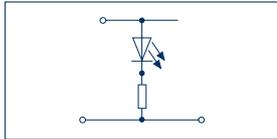
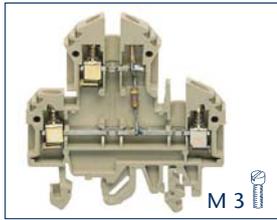


Double-level terminals with electronic components

**Screw connection**  
60.2 x 6 x 65.5  
60.2 x 6 x 61

	Qty.
RKD 4/RD5 BG	100
<b>2440.2</b>	

**RKD 4/LED1**

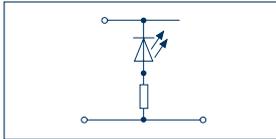


Double-level terminals with electronic components

**Screw connection**  
60.2 x 6 x 65.5  
60.2 x 6 x 61

	Qty.
RKD 4/LED1(RD)/6V DC BG	100
<b>2310.2</b>	
RKD 4/LED1(RD)/24V DC BG	100
<b>1040.2</b>	
RKD 4/LED1(GN)/24V DC BG	100
<b>2312.2</b>	
RKD 4/LED1(RD)/60V DC BG	100
<b>2314.2</b>	

**RKD 4/LED2**



Double-level terminals with electronic components

**Screw connection**  
60.2 x 6 x 65.5  
60.2 x 6 x 61

	Qty.
RKD 4/LED2(RD)/6V DC BG	100
<b>2311.2</b>	
RKD 4/LED2(RD)/24V DC BG	100
<b>1041.2</b>	
RKD 4/LED2(GN)/24V DC BG	100
<b>2313.2</b>	
RKD 4/LED2(RD)/60V DC BG	100
<b>2315.2</b>	

②	
400 V AC	
10	
1000	
1	
1 N 4007	
4   22-12	
A4   V2	
0.2-4   -	
0,-4   0.2-4	
0.2-4	
9	
0.5-1.0   Slotted M 3	

②	
400 V AC	
10	
1000	
1	
1 N 4007	
1.5 k Ohm	
4   22-12	
A4   V2	
0.2-4   -	
0.2-4   0.2-4	
0.2-4	
9	
0.5-1.0   Slotted M 3	

②	
400 V AC	
10	
1000	
1	
1 N 4007	
1.5 k Ohm	
4   22-12	
A4   V2	
0.2-4   -	
0.2-4   0.2-4	
0.2-4	
9	
0.5-1.0   Slotted M 3	

②	
Refer to type	
10	
4   22-12	
A4   V2	
0.2-4   -	
0.2-4   0.2-4	
0.2-4	
9	
0.5-1.0   Slotted M 3	

②	
Refer to type	
10	
4   22-12	
A4   V2	
0.2-4   -	
0.2-4   0.2-4	
0.2-4	
9	
0.5-1.0   Slotted M 3	

PA 6.6 | -40 to +105°C  
2 | 1

PA 6.6 | -40 to +105°C  
2 | 1

PA 6.6 | -40 to +105°C  
2 | 1

PA 6.6 | -40 to +105°C  
1 Per feed-through level | -

PA 6.6 | -40 to +105°C  
1 Per feed-through level | -

	Page	Qty.
AP 4 BG	278	20
<b>2101.2</b>		
TRS 3 BG	316	100
<b>2566.2</b>		
STB 8.5/2.3	317	50
<b>2075.0</b>		
PS 2,3	317	20
<b>2007.0</b>		
Q 2	289	50
<b>2087.0</b>		
Q 3	289	50
<b>2088.0</b>		
Q 4	288	20
<b>2089.0</b>		
Q 10	289	10
<b>2090.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

	Page	Qty.
AP 4 BG	278	20
<b>2101.2</b>		
TRS 3 BG	316	100
<b>2566.2</b>		
STB 8.5/2.3	317	50
<b>2075.0</b>		
PS 2,3	317	20
<b>2007.0</b>		
Q 2	289	50
<b>2087.0</b>		
Q 3	289	50
<b>2088.0</b>		
Q 4	288	20
<b>2089.0</b>		
Q 10	289	10
<b>2090.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

	Page	Qty.
AP 4 BG	278	20
<b>2101.2</b>		
TRS 3 BG	316	100
<b>2566.2</b>		
STB 8.5/2.3	317	50
<b>2075.0</b>		
PS 2,3	317	20
<b>2007.0</b>		
Q 2	289	50
<b>2087.0</b>		
Q 3	289	50
<b>2088.0</b>		
Q 4	288	20
<b>2089.0</b>		
Q 10	289	10
<b>2090.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

	Page	Qty.
AP 4 BG	278	20
<b>2101.2</b>		
TRS 3 BG	316	100
<b>2566.2</b>		
STB 8.5/2.3	317	50
<b>2075.0</b>		
PS 2,3	317	20
<b>2007.0</b>		
Q 2	289	50
<b>2087.0</b>		
Q 3	289	50
<b>2088.0</b>		
Q 4	288	20
<b>2089.0</b>		
Q 10	289	10
<b>2090.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

	Page	Qty.
AP 4 BG	278	20
<b>2101.2</b>		
TRS 3 BG	316	100
<b>2566.2</b>		
STB 8.5/2.3	317	50
<b>2075.0</b>		
PS 2,3	317	20
<b>2007.0</b>		
Q 2	289	50
<b>2087.0</b>		
Q 3	289	50
<b>2088.0</b>		
Q 4	288	20
<b>2089.0</b>		
Q 10	289	10
<b>2090.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

**Double-level terminals with electronic components RKD**

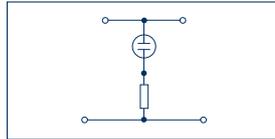
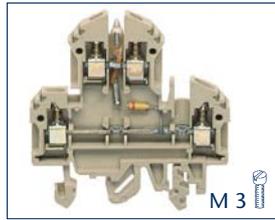
**Screw connection system**



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

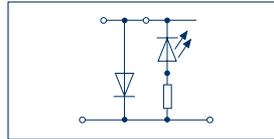
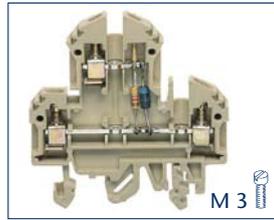
**Connection diagram**

**RKD 4/G**



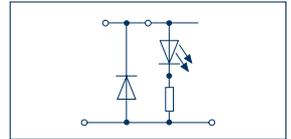
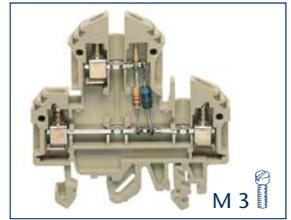
Double-level terminals with electronic components

**RKD 4/LED3**



Double-level terminals with electronic components

**RKD 4/LED4**



Double-level terminals with electronic components

**Connection type**

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

**Rated specifications acc. to**

Rated voltage, V

Rated current, A

CapacitorµF

Resistance, ohm

Rated wire cross-section, mm<sup>2</sup> | AWG

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Socket plug STB

**Cat. no.**

Test plug PS

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**Screw connection**

60.2 x 6 x 65.5

60.2 x 6 x 61

**Qty.**

RKD 4/G/115V AC BG

**1045.2**

100

RKD 4/G/230V AC BG

**1044.2**

100

**Screw connection**

60.2 x 6 x 65.5

60.2 x 6 x 61

**Qty.**

RKD 4/LED3(RD)/24V DC BG

**2436.2**

100

RKD 4/LED3(GN)/24V DC BG

**2437.2**

100

**Screw connection**

60.2 x 6 x 65.5

60.2 x 6 x 61

**Qty.**

RKD 4/LED4(RD)/24V DC BG

**2438.2**

100

RKD 4/LED4(GN)/24V DC BG

**2439.2**

100

②

②

②

Refer to type

10

Refer to type

10

Refer to type

10

4 | 22-12

A4 | V2

4 | 22-12

A4 | V2

4 | 22-12

A4 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 Per feed-through level | -

PA 6.6 | -40 to +105°C

1 Per feed-through level | -

PA 6.6 | -40 to +105°C

1 Per feed-through level | -

AP 4 BG

**2101.2**

278 20

TRS 3 BG

**2566.2**

316 100

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

Q 2

**2087.0**

289 50

Q 3

**2088.0**

289 50

Q 4

**2089.0**

288 20

Q 10

**2090.0**

289 10

ES 35/K/ST BG

**2828.0**

274 50

SDB 0.6x3.5

**1086.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

AP 4 BG

**2101.2**

278 20

TRS 3 BG

**2566.2**

316 100

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

Q 2

**2087.0**

289 50

Q 3

**2088.0**

289 50

Q 4

**2089.0**

288 20

Q 10

**2090.0**

289 10

ES 35/K/ST BG

**2828.0**

274 50

SDB 0.6x3.5

**1086.0**

422 1

PMC SB 6/50 WH

**4702.7**

340 500

AP 4 BG

**2101.2**

278 20

TRS 3 BG

**2566.2**

316 100

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

Q 2

**2087.0**

289 50

Q 3

**2088.0**

289 50

Q 4

**2089.0**

288 20

Q 10

**2090.0**

289 10

ES 35/K/ST BG

**2828.0**

274 50

SDB 0.6x3.5

**1086.0**

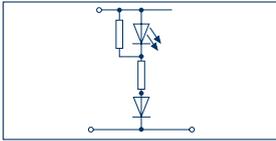
422 1

PMC SB 6/50 WH

**4702.7**

340 500

**RKD 4/LED5**



Double-level terminals with electronic components

**Screw connection**  
60.2 x 6 x 65.5  
60.2 x 6 x 61

	Qty.
RKD 4/LED5(RD)/24V AC BG	100
RKD 4/LED5(RD)/48V AC BG	100
RKD 4/LED5(RD)/150V AC BG	100
RKD 4/LED5(RD)/230V AC BG	100

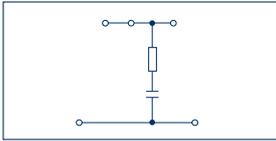
②

Refer to type	10
4   22-12	A4   V2
0.2-4   -	0.2-4   0.2-4
0.2-4	9
0.5-1.0   Slotted M 3	-

PA 6.6 | -40 to +105°C  
1 Per feed-through level | -

	Page	Qty.
AP 4 BG	278	20
TR 3 BG	316	100
STB 8.5/2.3	317	50
PS 2,3	317	20
Q 2	289	50
Q 3	289	50
Q 4	288	20
Q 10	289	10
ES 35/K/ST BG	274	50
SDB 0.6x3.5	422	1
PMC SB 6/50 WH	340	500

**RKD 4/RC**



Double-level terminals with electronic components

**Screw connection**  
60.2 x 18 x 65.5  
60.2 x 18 x 61

	Qty.
RKD 4/RC BG	30

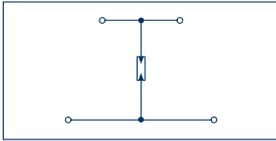
②

Refer to type	10
250 V AC   330 V DC	2x0.1
4   22-12	A4   V2
0.2-4   -	0.2-4   0.2-4
0.2-4	9
0.5-1.0   Slotted M 3	-

PA 6.6 | -40 to +105°C

	Page	Qty.
AP 4 BG	278	20
TR 3 BG	316	100
STB 8.5/2.3	317	50
PS 2,3	317	20
Q 2	289	50
Q 3	289	50
Q 4	288	20
Q 10	289	10
ES 35/K/ST BG	274	50
SDB 0.6x3.5	422	1
PMC SB 6/50 WH	340	500

**RKD 4/UG**



Double-level terminals with electronic components

**Screw connection**  
60.2 x 12 x 65.5  
60.2 x 12 x 61

	Qty.
RKD 4/UG/90V/5ka BG	50
RKD 4/UG/230V/5ka BG	50
RKD 4/UG/600V/5ka BG	50

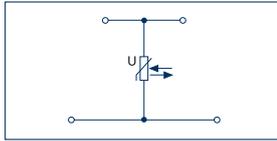
②

Refer to type	10
Gas discharge tube	4   22-12
4   22-12	A4   V2
0.2-4   -	0.2-4   0.2-4
0.2-4	9
0.5-1.0   Slotted M 3	-

PA 6.6 | -40 to +105°C

	Page	Qty.
AP 4 BG	278	20
TR 3 BG	316	100
STB 8.5/2.3	317	50
PS 2,3	317	20
Q 2	289	50
Q 3	289	50
Q 4	288	20
Q 10	289	10
ES 35/K/ST BG	274	50
SDB 0.6x3.5	422	1
PMC SB 6/50 WH	340	500

**RKD 4/UV**



Double-level terminals with electronic components

**Screw connection**  
60.2 x 12 x 65.5  
60.2 x 12 x 61

	Qty.
RKD 4/UV/30V BG	50
RKD 4/UV/60V BG	50
RKD 4/UV/75V BG	50
RKD 4/UV/130V BG	50
RKD 4/UV/275V BG	50

②

Refer to type	10
Varistor	4   22-12
4   22-12	A4   V2
0.2-4   -	0.2-4   0.2-4
0.2-4	9
0.5-1.0   Slotted M 3	-

PA 6.6 | -40 to +105°C

	Page	Qty.
AP 4 BG	278	20
TR 3 BG	316	100
STB 8.5/2.3	317	50
PS 2,3	317	20
Q 2	289	50
Q 3	289	50
Q 4	288	20
Q 10	289	10
ES 35/K/ST BG	274	50
SDB 0.6x3.5	422	1
PMC SB 6/50 WH	340	500

**Three-level terminals IKD/DLI | Motor connection terminal VMAK**

**Screw connection system**



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

**Connection diagram**

**Connection type**

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Rated specifications acc. to**

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Cross-connector Q

**Cat. no.**

Insulated cross-connector AQI

**Cat. no.**

Cross-connector Q

**Cat. no.**

Insulated cross-connector AQI

**Cat. no.**

Cross-connector Q

**Cat. no.**

Insulated cross-connector AQI

**Cat. no.**

End stop ES

**Cat. no.**

Socket plug STB

**Cat. no.**

Test plug PS

**Cat. no.**

Screwdriver SDB

**Cat. no.**

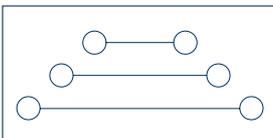
Quick marking PMC SB

**Cat. no.**

**IKD 2.5**

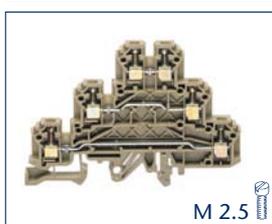


M 2.5

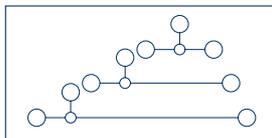


Feed-through terminal  
3x2 connections

**IKD 2.5/Q**

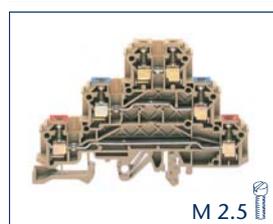


M 2.5

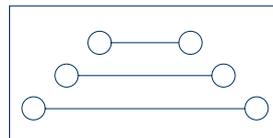


Feed-through terminal  
3x2 connections

**IKD 2.5/F**



M 2.5



Feed-through terminal  
3x2 connections

**Screw connection**

84.8 x 5 x 62.8

84.8 x 5 x 58.3

**Qty.**

IKD 2.5 BG

**1261.2**

50

IKD 2.5 BU

**1261.5**

50

**Screw connection**

84.8 x 5 x 62.8

84.8 x 5 x 58.3

**Qty.**

IKD 2.5/Q BG

**2268.2**

50

IKD 2.5/Q BU

**2268.5**

50

**Screw connection**

84.8 x 5 x 62.8

84.8 x 5 x 58.3

**Qty.**

IKD 2.5/F BG

**1295.2**

50

② ⑤

**IEC CSAus CSA**

250 300 300

24 20 20

2.5 | 22-14

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

3 | -

AP 2.5/ID BG

**2699.2**

278 20

Q 2

**2422.0**

288 50

Q 3

**2423.0**

288 50

Q 4

**2424.0**

288 20

Q 10

**2425.0**

288 10

ES 35/K/ST BG

**2828.0**

274 50

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

SDB 0.5x3,5

**1085.0**

422 1

PMC SB 5/50 WH

**4600.7**

339 500

② ⑤

**IEC CSAus CSA**

250 300 300

24 20 20

2.5 | 22-14

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

3 | -

AP 2.5/ID BG

**2699.2**

278 20

Q 2

**2422.0**

288 50

Q 3

**2423.0**

288 50

Q 4

**2424.0**

288 20

Q 10

**2425.0**

288 10

ES 35/K/ST BG

**2828.0**

274 50

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

SDB 0.5x3,5

**1085.0**

422 1

PMC SB 5/50 WH

**4600.7**

339 500

②

**IEC CSAus CSA**

250 300 300

24 20 20

2.5 | 22-14

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

3 | -

AP 2.5/ID BG

**2699.2**

278 20

Q 2

**2422.0**

288 50

Q 3

**2423.0**

288 50

Q 4

**2424.0**

288 20

Q 10

**2425.0**

288 10

ES 35/K/ST BG

**2828.0**

274 50

STB 8.5/2.3

**2075.0**

317 50

PS 2,3

**2007.0**

317 20

SDB 0.5x3,5

**1085.0**

422 1

PMC SB 5/50 WH

**4600.7**

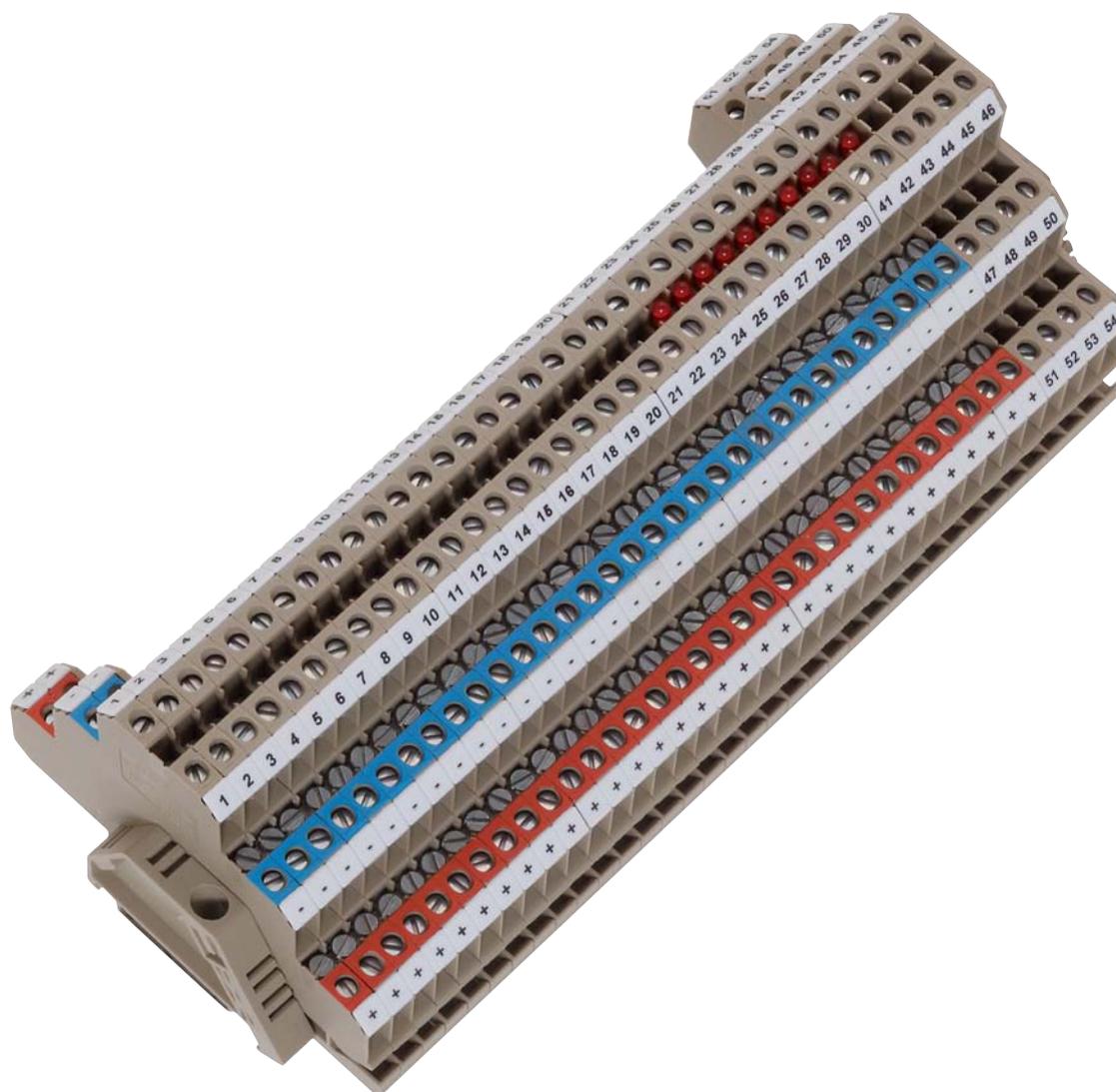
339 500



## Three-level initiator terminals IKD/IK



In the field of machinery construction, inductive/capacitive proximity switches and diffuse-reflection sensors are being increasingly used for contactless switching purposes. These sensors are mostly designed for three-wire systems: plus and minus wires for the power supply and a third wire for switching signals. In order to ensure the proper overview of wiring and also to help you save time and space during your work, **CONTA-CLIP** offers a 5-mm thin initiator terminal with a screw connection – the **IK 2.5**. This product combines all of the connections found in an initiator or an actuator into a single terminal. When combined with the **IKD 2.5** power supply terminal, it is possible to connect the terminal strip of the **IK 2.5** initiator terminals to the power supply without any loss of poles.



## Three-level initiator terminals IKD/IK

### The features in detail

The **IKD 2.5** can be positioned anywhere in the terminal strip combination. If it is positioned at the start or in the middle of a terminal strip, the remaining exposed part of the **IKD 2.5** should be fitted with the short **AP/IKD** (catalogue no. 2714.2). The cross-distribution of the power supply takes place at the lower and middle levels using the **QS**, **VH** and **BS** accessory products or the pre-assembled **Q** cross-connector. The pre-assembled **Q** cross-connections are available with 2 to 10 poles or 100 poles.

The **IK 2.5** and **IKD 2.5** base terminals are also available with LED status displays. The display speeds up troubleshooting and signals the switching status.

This product line covers all standard control voltages, divided into the switching types “positive switching” or “negative switching”.

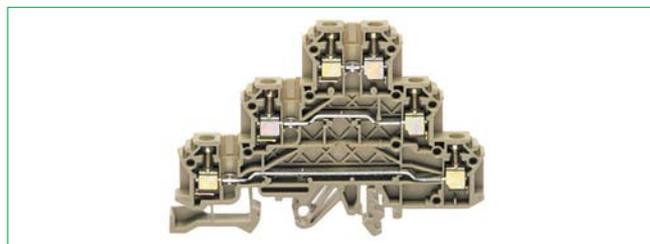
#### Features of the IK 2.5

- Thin design (5 mm)
- Closed wire entry
- One terminal per initiator for quick and precise signal assignment
- Touch-safe protection (VBG4) without an additional cover
- Colour-coding of plus (red) and minus (blue) connections
- Additional colour-coded labelling is possible

#### The IKD base terminals come in four variants:

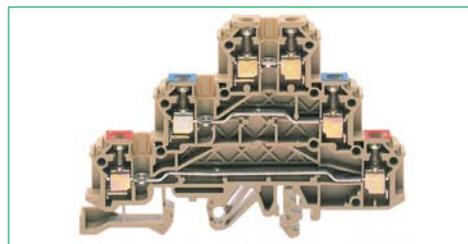
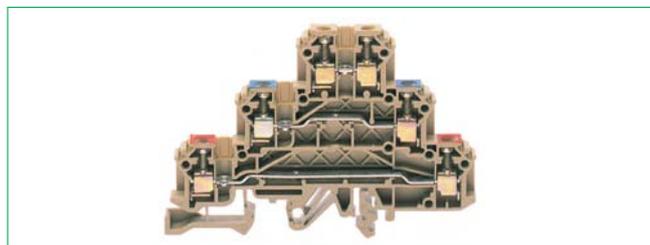
##### IKD 2.5

Raised-up rear wall, so cross-connection only possible on open side of terminal. Different supply voltages can be fed within one terminal combination.



##### IKD 2.5/F

Raised-up rear wall, so cross-connection only possible on open side of terminal. Different supply voltages can be fed within one terminal combination. The lower level is labelled red and the middle level is labelled blue.

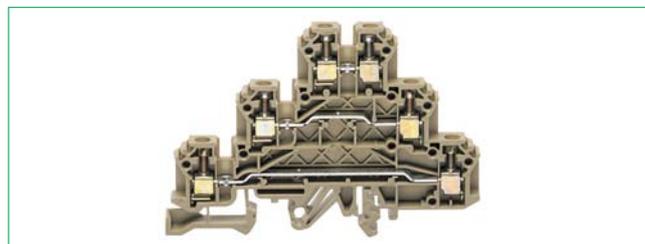


#### Features of the IKD 2.5

- Thin design (5 mm)
- Closed wire entry
- Switch signal and power supply can be connected
- Touch-safe protection (VBG4) without an additional cover

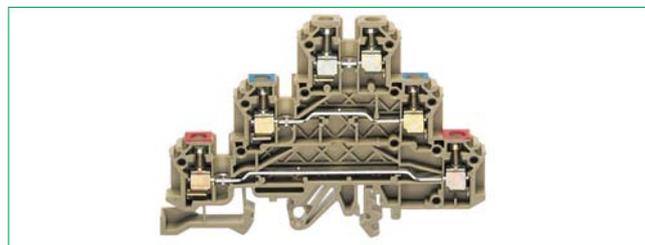
##### IKD 2.5/Q

Cross-connection is possible on open and closed sides of the terminal.



##### IKD 2.5/F/Q

Cross-connection is possible on open and closed sides of the terminal. The lower level is labelled red and the middle level is labelled blue.



### Three-level initiator terminals IKD | IK

#### Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

#### Connection diagram

#### Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

#### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

#### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

#### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

#### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

#### Accessories

End plate AP

Cat. no.

End plate AP, short

Cat. no.

Cross-connector Q

Cat. no.

Cross-connection rail QS

Cat. no.

Cross-connector Q

Cat. no.

Cross-connection rail QS

Cat. no.

Cross-connector Q

Cat. no.

Cross-connection rail QS

Cat. no.

Cross-connector Q

Cat. no.

Cross-connector Q

Cat. no.

Connecting sleeve VH

Cat. no.

Mounting screw BS

Cat. no.

Screwdriver SDB

Cat. no.

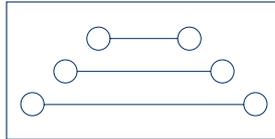
Quick marking PMC SB

Cat. no.

#### IKD 2.5



M 2.5



Feed-through terminal  
3x2 connections

#### Screw connection

84.8 x 5 x 62.8

84.8 x 5 x 58.3

#### Qty.

IKD 2.5 BG

**1261.2**

50

IKD 2.5 BU

**1261.5**

20

② ⑤

#### IEC

#### CSAus

#### CSA

250

300

300

24

20

20

2.5 | 22-14

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

3 | -

Page

Qty.

AP 2.5/ID BG

**2699.2**

278

20

AP IKD 2.5/short BG

**2714.2**

278

20

Q 2

**2422.0**

288

50

QS 2

**2417.0**

296

100

Q 3

**2423.0**

288

50

QS 3

**2418.0**

296

100

Q 4

**2424.0**

288

20

QS 4

**2419.0**

296

100

Q 10

**2425.0**

288

10

QS 10

**2420.0**

296

10

Q 20

**2700.0**

288

10

Q 0.5m/100 poles

**2151.0**

288

1

QS 0.5m

**2519.0**

296

1

VH 5

**2327.0**

297

100

BS M 2.5x10

**2326.0**

297

100

SDB 0.5x3,0

**1085.0**

422

1

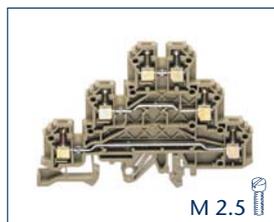
PMC SB 5/50 WH

**4600.7**

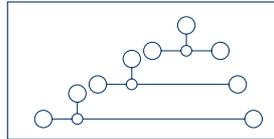
339

500

#### IKD 2.5/Q



M 2.5



Three-level initiator terminal,  
6 connections

#### Screw connection

84.8 x 5 x 62.8

84.8 x 5 x 58.3

#### Qty.

IKD 2.5/Q BG

**2268.2**

50

②

#### IEC

#### CSAus

#### CSA

250

300

300

24

20

20

2.5 | 22-14

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

3 | -

Page

Qty.

AP 2.5/ID BG

**2699.2**

278

20

AP IKD 2.5/short BG

**2714.2**

278

20

Q 2

**2422.0**

288

50

QS 2

**2417.0**

296

100

Q 3

**2423.0**

288

50

QS 3

**2418.0**

296

100

Q 4

**2424.0**

288

20

QS 4

**2419.0**

296

100

Q 10

**2425.0**

288

10

QS 10

**2420.0**

296

10

Q 20

**2700.0**

288

10

Q 0.5m/100 poles

**2151.0**

288

1

QS 0.5m

**2519.0**

296

1

VH 5

**2327.0**

297

100

BS M 2.5x10

**2326.0**

297

100

SDB 0.5x3,0

**1085.0**

422

1

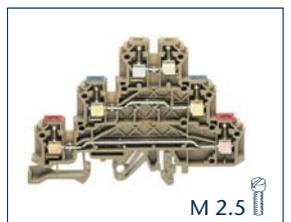
PMC SB 5/50 WH

**4600.7**

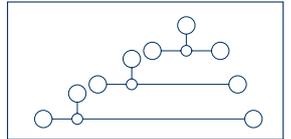
339

500

#### IKD 2.5 F



M 2.5



Three-level initiator terminal,  
6 connections

#### Screw connection

84.8 x 5 x 62.8

84.8 x 5 x 58.3

#### Qty.

IKD 2.5/F BG

**1295.2**

50

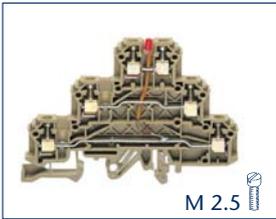
IKD 2.5/F BU

**1295.5**

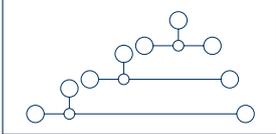
20

IKD 2.5/F/Q BG

**IKD 2.5 NPN/LED**



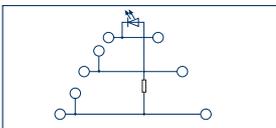
M 2.5



Three-level initiator terminal, 6 connections

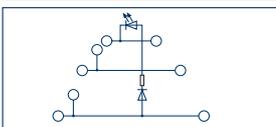
**Screw connection**  
84.8 x 5 x 62.8  
84.8 x 5 x 58.3

**Cat. no. Qty.**



IKD 2.5 NPN/DC/LED (RD)		
24 V	<b>1289.2</b>	50
48 V	<b>1291.2</b>	50
60 V	<b>1293.2</b>	50

IKD 2.5 NPN/DC/LED (GN)		
24 V	<b>1290.2</b>	50
48 V	<b>1292.2</b>	50
60 V	<b>1294.2</b>	50



IKD 2.5 NPN/AC/LED (RD)		
220 V	<b>1267.2</b>	50

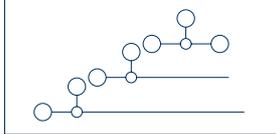
IKD 2.5 NPN/AC/LED (GN)		
220 V	<b>1366.2</b>	50

PA 6.6 | -40 to +105°C

**IK 2.5**



M 2.5



Three-level initiator terminal, 4 connections

**Screw connection**  
62.8 x 5 x 62.8  
62.8 x 5 x 58.3

**Cat. no. Qty.**

IK 2.5 BG	<b>1260.2</b>	100
-----------	---------------	-----

<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>
250	300	300
24	20	20
2.5   22-14		

4 | 3  
A3 | V2

0.2-4 | -  
0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

3 | -

**Page Qty.**

AP 2.5/ID BG	<b>2699.2</b>	278	20
AP IKD 2.5/short BG	<b>2714.2</b>	278	20

Q 2	<b>2422.0</b>	288	50
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QS 2	<b>2417.0</b>	296	100
------	---------------	-----	-----

Q 3	<b>2423.0</b>	288	50
-----	---------------	-----	----

QS 3	<b>2418.0</b>	296	100
------	---------------	-----	-----

Q 4	<b>2424.0</b>	288	20
-----	---------------	-----	----

QS 4	<b>2419.0</b>	296	100
------	---------------	-----	-----

Q 10	<b>2425.0</b>	288	10
------	---------------	-----	----

QS 10	<b>2420.0</b>	296	10
-------	---------------	-----	----

Q 20	<b>2700.0</b>	288	10
------	---------------	-----	----

Q 0.5m/100 poles	<b>2151.0</b>	288	1
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QS 0.5m	<b>2519.0</b>	296	1
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VH 5	<b>2327.0</b>	297	100
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BS M 2.5x10	<b>2326.0</b>	297	100
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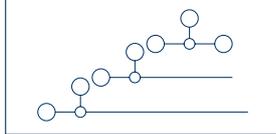
SDB 0.5x3,0	<b>1085.0</b>	422	1
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PMC SB 5/50 WH	<b>4600.7</b>	339	500
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**IK 2.5 PNP/LED**



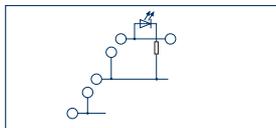
M 2.5



Three-level initiator terminal, 4 connections

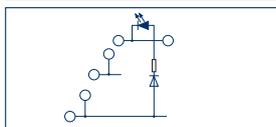
**Screw connection**  
62.8 x 5 x 62.8  
62.8 x 5 x 58.3

**Cat. no. Qty.**



IK 2.5 PNP/DC/LED (RD)		
24 V	<b>1262.2</b>	100
48 V	<b>1271.2</b>	100
60 V	<b>1273.2</b>	100

IK 2.5 PNP/DC/LED (GN)		
24 V	<b>1263.2</b>	100
48 V	<b>1272.2</b>	100
60 V	<b>1274.2</b>	100



IK 2.5 PNP/AC/LED (RD)		
220 V	<b>1275.2</b>	100

IK 2.5 PNP/AC/LED (GN)		
220 V	<b>1276.2</b>	100

PA 6.6 | -40 to +105°C

**Page Qty.**

AP 2.5/ID BG	<b>2698.2</b>	278	20
--------------	---------------	-----	----

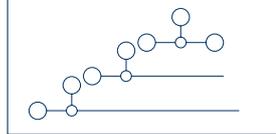
SDB 0.5x3,0	<b>1085.0</b>	422	1
-------------	---------------	-----	---

PMC SB 5/50 WH	<b>4600.7</b>	339	500
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**IK 2.5 NPN/LED**



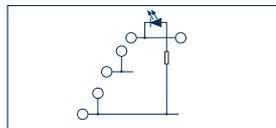
M 2.5



Three-level initiator terminal, 4 connections

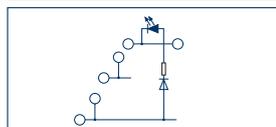
**Screw connection**  
62.8 x 5 x 62.8  
62.8 x 5 x 58.3

**Cat. no. Qty.**



IK 2.5 NPN/DC/LED (RD)		
24 V	<b>1264.2</b>	100
48 V	<b>1277.2</b>	100
60 V	<b>1279.2</b>	100

IK 2.5 NPN/DC/LED (GN)		
24 V	<b>1265.2</b>	100
48 V	<b>1278.2</b>	100
60 V	<b>1280.2</b>	100



IK 2.5 NPN/AC/LED (RD)		
220 V	<b>1281.2</b>	100

IK 2.5 NPN/AC/LED (GN)		
220 V	<b>1282.2</b>	100

PA 6.6 | -40 to +105°C

**Page Qty.**

AP 2.5/ID BG	<b>2698.2</b>	278	20
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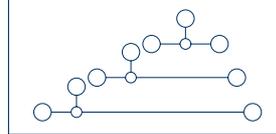
SDB 0.5x3,0	<b>1085.0</b>	422	1
-------------	---------------	-----	---

PMC SB 5/50 WH	<b>4600.7</b>	339	500
----------------	---------------	-----	-----

**IKD 2.5 PNP/LED**



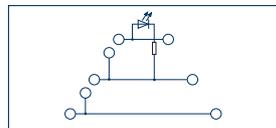
M 2.5



Three-level initiator terminal, 6 connections

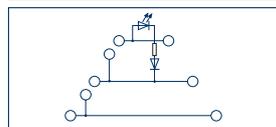
**Screw connection**  
84.8 x 5 x 62.8  
84.8 x 5 x 58.3

**Cat. no. Qty.**



IKD 2.5 PNP/DC/LED (RD)		
24 V	<b>1283.2</b>	50
48 V	<b>1285.2</b>	50
60 V	<b>1287.2</b>	50

IKD 2.5 PNP/DC/LED (GN)		
24 V	<b>1284.2</b>	50
48 V	<b>1286.2</b>	50
60 V	<b>1288.2</b>	50



IKD 2.5 PNP/AC/LED (RD)		
220 V	<b>1266.2</b>	50

IKD 2.5 PNP/AC/LED (GN)		
220 V	<b>1299.2</b>	50

PA 6.6 | -40 to +105°C

**Page Qty.**

AP 2.5/ID BG	<b>2699.2</b>	278	20
AP IKD 2.5/short BG	<b>2714.2</b>	278	20

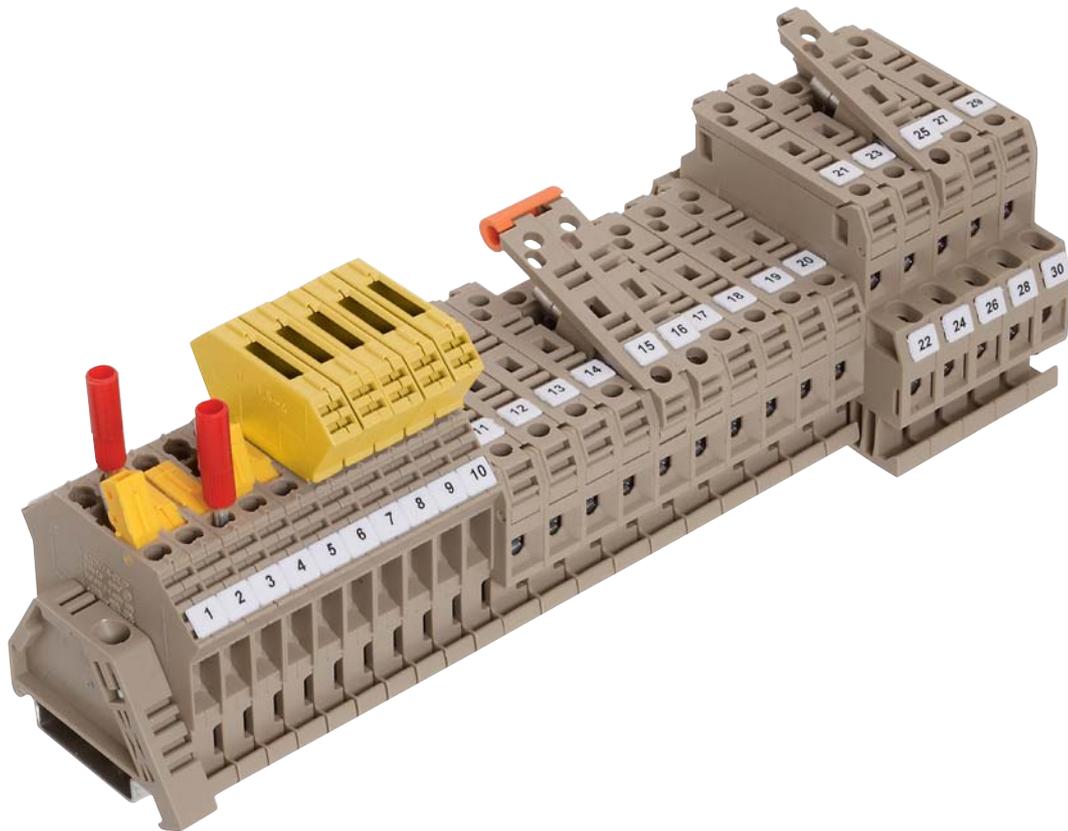
SDB 0.5x3,0	<b>1085.0</b>	422	1
-------------	---------------	-----	---

PMC SB 5/50 WH	<b>4600.7</b>	339	500
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## Disconnect terminals TRK/STK 2/TK



Disconnect terminals are commonly used within measurement and control systems. They provide assistance when troubleshooting in electrical facilities, when commissioning new facilities and when revising old facilities. These series come with a combi-foot for installation on a **TS 32/TS 35** rails or with a snap-on foot for the **TS 15** DIN rail.



## Disconnect terminals TRK/STK 2/TK

### Different versions | Features

The **TRK 1.5** (disconnect-blade terminal) and the **TRK 1.5/DS** (disconnect plug) variants are both available.

#### Features of the TRK 1.5/TRK 1.5 DS

- Same construction as the standard terminal blocks
- A sturdy, closed insulation housing
- The established disconnect-blade with high-quality surfaces
- Minimal and stable level of contact resistance
- Touch-safe protection also during the disconnect process



The **TRK 1.5/STB** and **TRK 1.5/ 15/STB** versions offer the advantage of pre-assembled socket plugs instead of terminal screws. Without any additional accessories, these disconnect terminals feature a test pick-off to be used for speedier troubleshooting or as a measurement pick-off for comparing standardized signals.

#### Features of the TRK 1.5/STB and TRK 1.5/15/STB

- Same construction as the standard terminal blocks
- A sturdy, closed insulation housing
- The established disconnect-blade with high-quality surfaces
- Minimal and stable level of contact resistance
- Touch-safe protection also during the disconnect process
- Test pick-off



Disconnect plugs and diode plugs for the **TRK 1.5/DS** disconnect terminals are available separately in four versions.

Disconnect plug without circuitry

**DS 1-TRK 1.5 (Cat. no.. 1403.2)**

Disconnect-plug with wire jumper

**DS 1-TRK 1.5 (Cat. no.. 1400.2)**

Disconnect plug with diode in blocking direction

**DS 1-TRK 1.5 (Cat. no.. 1401.2)**

Disconnect plug with diode in pass-through direction

**DS 1-TRK 1.5 (Cat. no.. 1402.2)**



The **TK 2** and **STK 2.../K** series feature a hinged lever for disconnecting. The lever comes with a contact sleeve.

#### Features of the TK 2/STK 2.../K

- Same construction as the standard terminal blocks
- hinged lever latches into fully open position.
- Disconnect terminals can be used as fuse-disconnect terminals by removing the contact ferrules.



## Disconnect terminals TRK

### Screw connection system



- Foot can be snapped on TS 15, TS 32 and TS 35 DIN rails
- Housing made from Polyamide 6.6 UL 94-V2

### Connection diagram

### Connection type

Size (L x W x H) mm with TS 15 mm

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type 2 socket plugs colour

**Cat. no.**

Type 2 socket plugs colour

**Cat. no.**

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

Test plug PS

**Cat. no.**

External insulated cross-connection AQI

**Cat. no.**

2 poles

External insulated cross-connection AQI

**Cat. no.**

3 poles

External insulated cross-connection AQI

**Cat. no.**

4 poles

Disconnect-plug with wire jumper

**Cat. no.**

Disconnect-plug with diode 1N4007/1A

**Cat. no.**

Disconnect-plug with diode 1N4007/1A

**Cat. no.**

Disconnect plug without circuitry

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

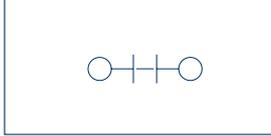
Quick marking PMC SB

**Cat. no.**

### TRK 1.5/15



M 3



Disconnect terminal  
2 connections

### Screw connection

48 x 6 x 38.3

### Qty.

TRK 1.5/15 BG  
**1392.2** 100

TRK 1.5/15 BU  
**1392.5** 100

② ⑤

### IEC UL cUL

400 600 600

10 15 15

2.5 | 22-12

4 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

8

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | -

### Page Qty.

PS 2,3  
**2007.0** 317 20

AQI 4/6/11 YE  
**2064.0** 293 50

AQI 3/6/17 YE  
**2065.0** 293 50

AQI 4/6/17 YE  
**2066.0** 293 50

ES 15 BG  
**2074.2** 275 50

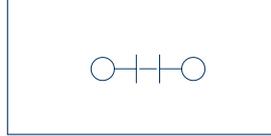
SDB 0.6x3.5  
**1086.0** 422 1

PMC SB 6/50 WH  
**4702.7** 340 500

### TRK 1.5/15 STB



M 3



Disconnect terminal  
2 connections

### Screw connection

48 x 6 x 38.3

### Qty.

TRK 1.5/15/STB BG  
**1393.2** 100

TRK 1.5/15/STB BU  
**1393.5** 100

② ⑤

### IEC UL cUL

400 600 600

10 15 15

2.5 | 22-12

4 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

8

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | 2

### Page Qty.

PS 2,3  
**2007.0** 317 20

AQI 4/6/11 YE  
**2064.0** 293 50

AQI 3/6/17 YE  
**2065.0** 293 50

AQI 4/6/17 YE  
**2066.0** 293 50

ES 15 BG  
**2074.2** 275 50

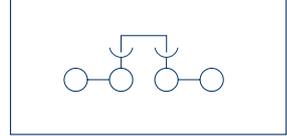
SDB 0.6x3.5  
**1086.0** 422 1

PMC SB 6/50 WH  
**4702.7** 340 500

### TRK 1.5/15 DS



M 3



Disconnect terminal  
2 connections

### Screw connection

48 x 6 x 56.3

### Qty.

TRK 1.5/15/DS BG  
**1396.2** 50

TRK 1.5/15/STB/DS BG  
**1397.2** 50

②

### IEC UL cUL

400 600 600

10 15 15

2.5 | 22-12

4 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

8

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | -

### Page Qty.

PS 2,3  
**2007.0** 317 20

AQI 4/6/11 YE  
**2064.0** 293 50

AQI 3/6/17 YE  
**2065.0** 293 50

AQI 4/6/17 YE  
**2066.0** 293 50

DS 1/TRK 1.5 YE  
**1400.2** ●● 323 1

DS 2/TRK 1.5 YE  
**1401.2** ●● 323 1

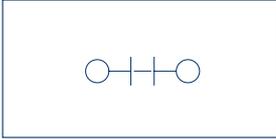
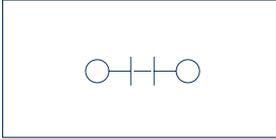
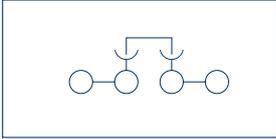
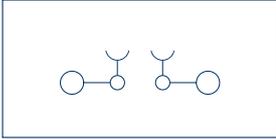
DS 3/TRK 1.5 YE  
**1402.2** ●● 323 1

DS 4/TRK 1.5 YE  
**1403.2** ●● 323 1

ES 15 BG  
**2074.2** 275 50

SDB 0.6x3.5  
**1086.0** 422 1

PMC SB 6/50 WH  
**4702.7** 340 500

TRK 1.5	TRK 1.5/STB	TRK 1.5/DS	TRK 1.5	
				
				
Disconnect terminal 2 connections	Disconnect terminal 2 connections	Disconnect terminal 2 connections	Disconnect terminal 2 connections	
<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	
48 x 6 x 52.8 48 x 6 x 48.3	48 x 6 x 52.8 48 x 6 x 48.3	48 x 6 x 70 48 x 6 x 65	48 x 6 x 70 48 x 6 x 65	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
TRK 1.5 BG <b>1390.2</b> 100		TRK 1.5/DS BG <b>1394.2</b> 50	TRK 1.5 BG <b>1398.2</b> 100	
TRK 1.5 BU <b>1390.5</b> 100				
	TRK 1.5/STB BG <b>1391.2</b> 100	TRK 1.5/STB/DS BG <b>1395.2</b> 50	TRK 1.5/STB BG <b>1399.2</b> 100	
	TRK 1.5/STB BU <b>1391.5</b> 100			
<b>IEC</b> <b>UL</b> <b>cUL</b>	<b>IEC</b> <b>UL</b> <b>cUL</b>	<b>IEC</b> <b>UL</b> <b>cUL</b>	<b>IEC</b> <b>UL</b> <b>cUL</b>	
400 600 600	400 600 600	400 600 600	400 600 600	
10 15 15	10 15 15	10 15 15	10 15 15	
2.5   22-12 4   3 A4   V2	2.5   22-12 4   3 A4   V2	2.5   22-12 4   3 A4   V2	2.5   22-12 4   3 A4   V2	
0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.5-1.0   Slotted M 3	0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.5-1.0   Slotted M 3	0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.5-1.0   Slotted M 3	0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.5-1.0   Slotted M 3	
PA 6.6   -40 to +105°C -   -	PA 6.6   -40 to +105°C -   2	PA 6.6   -40 to +105°C -   -	PA 6.6   -40 to +105°C -   -	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
PS 2,3 <b>2007.0</b> 317 20	PS 2,3 <b>2007.0</b> 317 20	PS 2,3 <b>2007.0</b> 317 20	PS 2,3 <b>2007.0</b> 317 20	
AQI 4/6/11 YE <b>2064.0</b> 293 50	AQI 4/6/11 YE <b>2064.0</b> 293 50	AQI 4/6/11 YE <b>2064.0</b> 293 50	AQI 4/6/11 YE <b>2064.0</b> 293 50	
AQI 3/6/17 YE <b>2065.0</b> 293 50	AQI 3/6/17 YE <b>2065.0</b> 293 50	AQI 3/6/17 YE <b>2065.0</b> 293 50	AQI 3/6/17 YE <b>2065.0</b> 293 50	
AQI 4/6/17 YE <b>2066.0</b> 293 50	AQI 4/6/17 YE <b>2066.0</b> 293 50	AQI 4/6/17 YE <b>2066.0</b> 293 50	AQI 4/6/17 YE <b>2066.0</b> 293 50	
		DS 1/TRK 1.5 YE <b>1400.2</b> 323 1	DS 1/TRK 1.5 YE <b>1400.2</b> 323 1	
		DS 2/TRK 1.5 YE <b>1401.2</b> 323 1	DS 2/TRK 1.5 YE <b>1401.2</b> 323 1	
		DS 3/TRK 1.5 YE <b>1402.2</b> 323 1	DS 3/TRK 1.5 YE <b>1402.2</b> 323 1	
		DS 4/TRK 1.5 YE <b>1403.2</b> 323 1	DS 4/TRK 1.5 YE <b>1403.2</b> 323 1	
ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	
SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	
PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	

## Disconnect terminals STK | TK

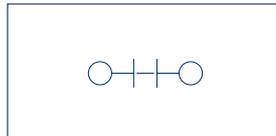
### Screw connection system



- Foot can be snapped on TS 15, TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

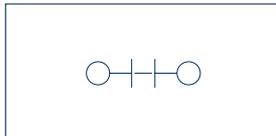
### Connection diagram

#### STK 2/15/K



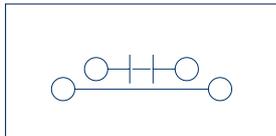
Disconnect terminal  
2 connections

#### STK 2/K



Disconnect terminal  
2 connections

#### STKD 1/K



Disconnect terminal  
2+2 connections

### Connection type

Size (L x W x H) mm with TS 15 mm

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type Two colour

**Cat. no.**

Type Two colour

**Cat. no.**

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

**Cat. no.**

External insulated cross-connection AQI

2 poles

**Cat. no.**

External insulated cross-connection AQI

3 poles

**Cat. no.**

External insulated cross-connection AQI

4 poles

**Cat. no.**

solid link KH

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

### Screw connection

49 x 8 x 34

**STK 2/15/K BG <sup>1)</sup>**

**1382.2**

Qty.

100

**STK 2/15/K BU <sup>1)</sup>**

**1382.5**

Qty.

100

② ⑤

### IEC

500

6.3

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AP/SI-2 BG

**2186.2**

278

50

AQI 2/8/11 YE

**2067.0**

293

50

AQI 3/8/11 YE

**2068.0**

293

50

AQI 4/8/11 YE

**2069.0**

293

50

KH 5

**2470.0**

66

1

ES 15 BG

**2074.2**

275

50

SDB 0.6x3.5

**1086.0**

422

1

PMC SB 8/40 WH

**9323.7**

342

400

### Screw connection

49 x 8 x 43,3

49 x 8 x 39

**STK 2/K BG <sup>1)</sup>**

**1381.2**

Qty.

100

**STK 2/K BU <sup>1)</sup>**

**1381.5**

Qty.

100

② ⑤

### IEC

500

6.3

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AP/SI-2 BG

**2186.2**

278

50

AQI 2/8/11 YE

**2067.0**

293

50

AQI 3/8/11 YE

**2068.0**

293

50

AQI 4/8/11 YE

**2069.0**

293

50

KH 5

**2470.0**

66

1

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.6x3.5

**1086.0**

422

1

PMC SB 8/40 WH

**9323.7**

342

400

### Screw connection

67 x 8 x 60

67 x 8 x 55,5

**STKD 1/K BG <sup>1)</sup>**

**1383.2**

Qty.

50

**STKD 1/K BU <sup>1)</sup>**

**1383.5**

Qty.

50

② ⑤

### IEC

500

6.3

4 | 22-12

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AP/SID -1 BG

**2187.2**

278

20

AQI 2/8/11 YE

**2067.0**

293

50

AQI 3/8/11 YE

**2068.0**

293

50

AQI 4/8/11 YE

**2069.0**

293

50

KH 5

**2470.0**

66

1

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.6x3.5

**1086.0**

422

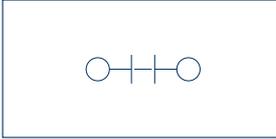
1

PMC SB 8/40 WH

**9323.7**

342

400

TK 2/15 K		TK 2/K				
						
						
Disconnect terminal 2 connections		Disconnect terminal 2 connections				
<b>Screw connection</b> 57,5 x 8 x 38,5		<b>Screw connection</b> 57,5 x 8 x 45,5 57,5 x 8 x 41				
<b>Qty.</b>		<b>Qty.</b>				
TK 2/15/K BG <sup>1)</sup> <b>2194.2</b>	100	TK 2/K BG <sup>1)</sup> <b>2193.2</b>	100			
TK 2/15/K BU <sup>1)</sup> <b>2194.5</b>	100	TK 2/K BU <sup>1)</sup> <b>2193.5</b>	100			
<b>② ⑤</b>		<b>② ⑤</b>				
<b>IEC</b>	<b>UL</b>	<b>IEC</b>	<b>UL</b>			
300	600	300	600			
15	16	15	16			
4   22-12		4   22-12				
6   3		6   3				
A4   V2		A4   V2				
0.2-4   -		0.2-4   -				
0.2-4   0.2-2.5		0.2-4   0.2-2.5				
0.2-4		0.2-4				
9		9				
0.5-1.0   Slotted M 3		0.5-1.0   Slotted M 3				
-		-				
PA 6.6   -40 to +105°C		PA 6.6   -40 to +105°C				
- -		- -				
<b>Page Qty.</b>		<b>Page Qty.</b>				
AP SI-1 BG <b>2046.2</b>	278 50	AP SI-1 BG <b>2046.2</b>	278 50			
AQI 2/8/11 YE <b>2067.0</b>	293 50	AQI 2/8/11 YE <b>2067.0</b>	293 50			
AQI 3/8/11 YE <b>2068.0</b>	293 50	AQI 3/8/11 YE <b>2068.0</b>	293 50			
AQI 4/8/11 YE <b>2069.0</b>	293 50	AQI 4/8/11 YE <b>2069.0</b>	293 50			
KH 5 <b>2470.0</b>	66 1	KH 5 <b>2470.0</b>	66 1			
ES 15 BG <b>2074.2</b>	275 50	ES 35/K/ST BG <b>2828.0</b>	274 50			
SDB 0.6x3.5 <b>1086.0</b>	422 1	SDB 0.6x3.5 <b>1086.0</b>	422 1			
PMC SB 8/40 WH <b>9323.7</b>	342 400	PMC SB 8/40 WH <b>9323.7</b>	342 400			

<sup>1)</sup> with solid link

## Test-disconnect terminals PTK



Test-disconnect terminals are mostly used in the sectors of electricity generation and supply. They are tailored to the variety of switching demands for current-converter secondary circuits that predominate in these sectors. Current transformers must always have a secondary circuit when electricity meters and measuring instruments are being replaced, or when making comparative measurements.

**CONTA-CLIP** test-disconnect terminals are available in the following three basic versions, each with or without a pre-assembled socket plug.

All versions provide touch-safe protection according to **VBG 4**. A captive sliding partition is used to separate the current and voltage paths. The switch position is always easy to detect since the disconnect screw has a yellow insulating sleeve.

The **STB 14/4** sockets plugs for a test pick-off can be attached to all versions using the **PS 4** test plug.



## Test-disconnect terminals PTK

### The features in detail

#### Cross-switches QVS

The **VH 19** connecting sleeves and the **BS 25** screws or the **STB 35** socket plugs are required for fastening the **QVS** cross-switch bridge. The screws and socket plugs are available with or without coloured labelling.

#### Cross-switches QSB

The **QSBs** are positioned inside of the terminal block combination. They establish contact over the sliding partition.

#### Socket plugs STB 35

The **STB 35** socket plugs are used in the test-disconnect terminals for holding the **PS 4** test plug or the **KSS 2-8** short-circuit plug. The **STB 35** socket plugs can also be used when you need to test at the same time that a **QVS** is attached.

#### Socket plugs STB 14/4

The **STB 14/4** socket plugs can be screwed into the cross-connection channel. They are used to hold the **PS 4** test plugs or the **KSS 2-8** short-circuit plugs.

#### Test plug PS 4

The **PS 4** test plugs are used for the final testing of already-wired test circuits.

#### Short-circuit plug KSS 2-8

A cross-connection between two PTK terminals can be established with the **KSS 2-8** short-circuit plug.



Test-disconnect terminals PTK

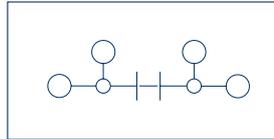
Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

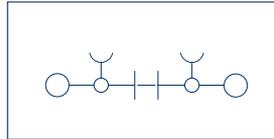
Connection diagram

PTK 10/LT



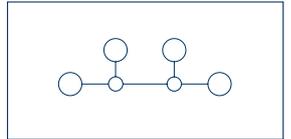
Disconnect terminal  
2 connections

PTK 10/LT/STB



Disconnect terminal  
2 connections

PTK 10/QT



Disconnect terminal  
2 connections

Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type/colour

Cat. no.

Colours available

Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Insulation plate TRS

Cat. no.

Test plug PS

Cat. no.

Cross-switch bridge QSB

Cat. no.

Cross-switch bridge QSB

Cat. no.

Insulated cross-connection QI

Cat. no.

Insulated cross-connection QI

Cat. no.

Insulated cross-connection QI

Cat. no.

Connecting sleeve VH

Cat. no.

Short-circuit plug KSS

Cat. no.

End stop ES

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

Screw connection

72 x 8 x 51.5

72 x 8 x 47

Qty.

PTK 10/LT BG

1130.2

50

Screw connection

72 x 8 x 51.5

72 x 8 x 47

Qty.

PTK 10/LT/STB BG <sup>1)</sup>

1131.2

50

Screw connection

72 x 8 x 51.5

72 x 8 x 47

Qty.

PTK 10/QT BG

1132.2

100

IEC CSAus CSA

400 600 600

10 45 45

4 | 22-8

4 | 3

A5 | V2

0.2-10 | -

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

-

PA 6.6 | -40 to +105°C

2 | -

Page Qty.

AP/L/Q/D BG

278 20

TRS 1 BG

2003.2 316 100

PS 4

2051.0 317 20

QI 2 YE

2750.2 289 50

QI 3 YE

2751.2 289 50

QI 4 YE

2752.2 289 50

QI 10 YE

2753.2 289 50

VH 19

2238.0 327 50

KSS 2-8

2886.0 327 10

ES 35/K/ST BG

2828.0 274 50

SDB 0,8x4,0

1087.0 422 1

PMC SB 8/40 WH

9323.7 342 400

IEC CSAus CSA

400 600 600

10 45 45

4 | 22-8

4 | 3

A5 | V2

0.2-10 | -

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

2 x test sockets, 4 mm

PA 6.6 | -40 to +105°C

- | 2

Page Qty.

AP/L/Q/D BG

278 20

TRS 1 BG

2003.2 316 100

PS 4

2051.0 317 20

QSB 2

2783.0 327 20

QSB 3

2784.0 327 20

QSB 4

2785.0 327 20

QI 2 YE

2750.2 289 50

QI 3 YE

2751.2 289 50

QI 4 YE

2752.2 289 50

QI 10 YE

2753.2 289 50

VH 19

2238.0 327 50

KSS 2-8

2886.0 327 10

ES 35/K/ST BG

2828.0 274 50

SDB 0,8x4,0

1087.0 422 1

PMC SB 8/40 WH

9323.7 342 400

IEC CSAus CSA

400 600 600

10 45 45

4 | 22-8

4 | 3

A5 | V2

0.2-10 | -

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

-

PA 6.6 | -40 to +105°C

2 | -

Page Qty.

AP/L/Q/D BG

278 20

TRS 1 BG

2003.2 316 100

PS 4

2051.0 317 20

QSB 2

2783.0 327 20

QSB 3

2784.0 327 20

QSB 4

2785.0 327 20

QI 2 YE

2750.2 289 50

QI 3 YE

2751.2 289 50

QI 4 YE

2752.2 289 50

QI 10 YE

2753.2 289 50

VH 19

2238.0 327 50

KSS 2-8

2886.0 327 10

ES 35/K/ST BG

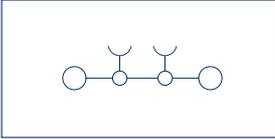
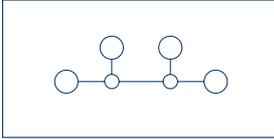
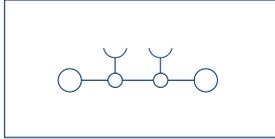
2828.0 274 50

SDB 0,8x4,0

1087.0 422 1

PMC SB 8/40 WH

9323.7 342 400

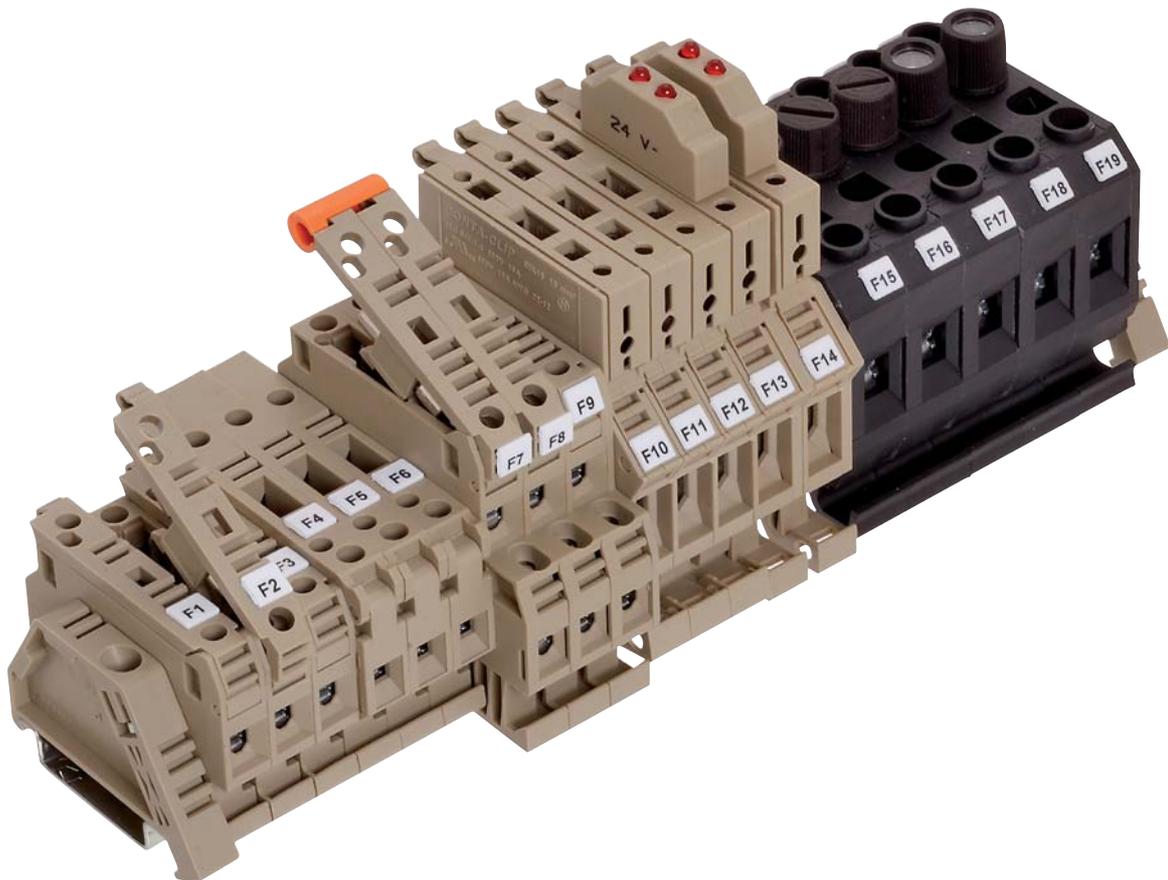
PTK 10/QT/STB			PTK 10/DU			PTK 10/DU/STB					
											
											
Disconnect terminal 2 connections			Disconnect terminal 2 connections			Disconnect terminal 2 connections					
<b>Screw connection</b> 72 x 8 x 51.5 72 x 8 x 47			<b>Screw connection</b> 72 x 8 x 51.5 72 x 8 x 47			<b>Screw connection</b> 72 x 8 x 51.5 72 x 8 x 47					
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>					
PTK 10/QT/STB BG <sup>1)</sup> <b>1133.2</b> 50			PTK 10/DU BG <b>1134.2</b> 50			PTK 10/DU/STB BG <sup>1)</sup> <b>1135.2</b> 50					
<sup>2)</sup>	<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>	<sup>2)</sup>	<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>	<sup>2)</sup>	<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>
	400	600	600		400	600	600		400	600	600
	10	45	45		10	45	45		10	45	45
		4   22-8				4   22-8				4   22-8	
		4   3				4   3				4   3	
		A5   V2				A5   V2				A5   V2	
		0.2-10   -				0.2-10   -				0.2-10   -	
		0.2-10   0.2-10				0.2-10   0.2-10				0.2-10   0.2-10	
		0.2-10				0.2-10				0.2-10	
		12				12				12	
		1.2-2.0   Slotted M 4				1.2-2.0   Slotted M 4				1.2-2.0   Slotted M 4	
		2 x test sockets, 4 mm				-				2 x test sockets, 4 mm	
		PA 6.6   -40 to +105°C				PA 6.6   -40 to +105°C				PA 6.6   -40 to +105°C	
		-   2				2   -				-   2	
		<b>Page Qty.</b>				<b>Page Qty.</b>				<b>Page Qty.</b>	
	AP/L/Q/D BG	278	20		AP/L/Q/D BG	278	20		AP/L/Q/D BG	278	20
	<b>2782.2</b>				<b>2782.2</b>				<b>2782.2</b>		
	TRS 1 BG	316	100		TRS 1 BG	316	100		TRS 1 BG	316	100
	<b>2003.2</b>				<b>2003.2</b>				<b>2003.2</b>		
	PS 4	317	20		PS 4	317	20		PS 4	317	20
	<b>2051.0</b>				<b>2051.0</b>				<b>2051.0</b>		
	QSB 2	327	20								
	<b>2783.0</b>										
	QSB 3	327	20								
	<b>2784.0</b>										
	QSB 4	327	20								
	<b>2785.0</b>										
					QI 2 YE	289	50				
					<b>2750.2</b>						
					QI 3 YE	289	50				
					<b>2751.2</b>						
					QI 4 YE	289	50				
					<b>2752.2</b>						
					QI 10 YE	289	50				
					<b>2753.2</b>						
					VH 19	327	50				
					<b>2238.0</b>						
	KSS 2-8	327	10		KSS 2-8	327	10		KSS 2-8	327	10
	<b>2886.0</b>				<b>2886.0</b>				<b>2886.0</b>		
	ES 35/K/ST BG	274	50		ES 35/K/ST BG	274	50		ES 35/K/ST BG	274	50
	<b>2828.0</b>				<b>2828.0</b>				<b>2828.0</b>		
	SDB 0,8x4,0	422	1		SDB 0,8x4,0	422	1		SDB 0,8x4,0	422	1
	<b>1087.0</b>				<b>1087.0</b>				<b>1087.0</b>		
	PMC SB 8/40 WH	342	400		PMC SB 8/40 WH	342	400		PMC SB 8/40 WH	342	400
	<b>9323.7</b>				<b>9323.7</b>				<b>9323.7</b>		

1) with socket plug

**Fuse-disconnect terminals STK/SIK | Fused terminals SK**



According to the applicable VDE regulations, you must protect electrical facilities, machinery and devices with cable or device fusing. **CONTA-CLIP** offers a variety of product lines to help you meet these requirements.



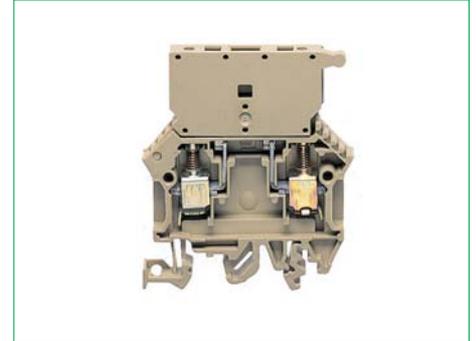
## Fuse-disconnect terminals STK/SIK | Fused terminals SK

### Different versions | Features

#### Fuse-disconnect terminal SIK 10/SIK 10/Z Features of the SIK 10/SIK 10/Z

The fuse-disconnect terminals features a hinged hinged lever that can be locked into its open position for supporting the micro-fuse. The terminals are available in variants with or without a status display.

- Combi-foot can snap on to **TS 32/TS 35** rails
- Connection cross-section up to 10 mm<sup>2</sup>
- **SIK 10** holds fuses (5 x 20/5 x 25/5 x 30)
- **SIK 10 Z** holds fuses (6.3 x 32/6.3 x 25)
- Two or three disconnect levers can be coupled and operated simultaneously by using the **VBS** connection sleeves
- The status display can be snapped on retroactively
- Can be used with solid link as disconnect terminal

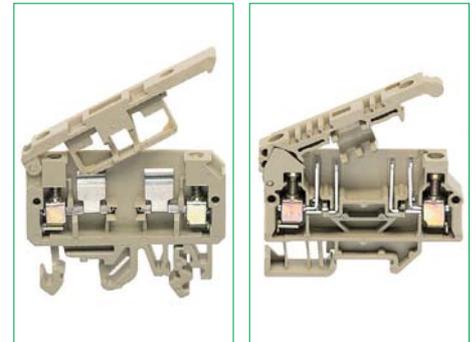


#### Fuse-disconnect terminal STK 1/STK 2

The **STK 1** and the **STK 2** fuse-disconnect terminals feature a compact shape so they take up minimal space. The hinged lever is used to hold the fuse and locks into its open position. LED status displays are available for a variety of voltage ranges.

#### Features of the STK 1/STK 2

- Combi-foot snaps on to **TS 35/TS 32** or mounting foot for the **TS 15** rail
- Connection cross-section up to 4 mm<sup>2</sup>
- **STK1** and **STK2** hold fuses (5 x 20/5 x 25)
- Compact design
- Can be used with solid link as disconnect terminal



#### Fused terminal SK 1

The **SK 1** fused terminals with screw cap are designed for micro-fuses that are 5 x 20-sized (without indicator) and 5 x 25-sized (with indicator).

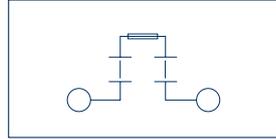
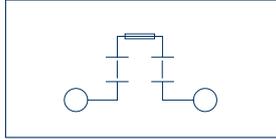
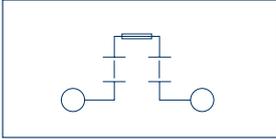
Fuses are screwed into the fused terminal via the screw cap. Status displays using LEDs, neon indicator lamps or glow lamps are available for a wide variety of voltage ranges.

#### Features of SK 1

- Terminal housing **PA 6.6 UL 94-VO** glass-fibre reinforced
- High continuous-use temperature range
- Fuses are screwed into the fused terminal via the screw cap
- Fused terminals are available with status displays for a variety of voltage ranges







Fuse-disconnect terminal  
2 connections/hinged lever

Fuse-disconnect terminal  
2 connections/disconnect-plug

Fuse-disconnect terminal  
2 connections/hinged lever

Connecting pieces for joining the  
hinged levers

Connecting pieces for joining the  
hinged levers

**Screw connection**  
60 x 10 x 73  
60 x 10 x 69

**Screw connection**  
60 x 10 x 73  
60 x 10 x 69

**Screw connection**  
60 x 10 x 87  
60 x 10 x 83

**Screw connection**

**Screw connection**

	Qty.
SIK 10/Z BG	25
<b>1102.2</b>	

	Qty.
SIK 10/Z/ST BG	25
<b>17043.2</b>	

	Qty.
SIK 10/Z/LED (RD) BG	25
<b>1108.2</b> 12V DC/24V AC	
SIK 10/Z/LED (RD) BG	25
<b>1109.2</b> 20-30V DC/40-60V AC	
SIK 10/Z/LED (RD) BG	25
<b>1110.2</b> 40-60V/80-120V AC	
SIK 10/Z/LED (RD) BG	25
<b>1111.2</b> 115V DC/230 V AC	
SIK 10/Z/2 LEDs (RD) BG	25
<b>1112.2</b> 24 V DC	

	Qty.
VBS 2/10 OG	20
<b>2873.3</b>	
VBS 3/10 OG	20
<b>2874.3</b>	

	Qty.
VBS 2/10/Z OG	20
<b>2875.3</b>	
VBS 3/10/Z OG	20
<b>2876.3</b>	

IEC	UL	cUL
500	600	600
10	16	16
10   22-12		
8   3		
1.6		
A4   V2		
0.2-10   -		
0.2-10   0.2-10		
0.2-10		
12		
1.2-2.0   Slotted M 4		
6.3x32 / 6.3x25		
PA 6.6   -40 to +105°C		
-   -		

IEC	UL	cUL
500	600	600
10	16	16
10   22-12		
8   3		
1.6		
A4   V2		
0.2-10   -		
0.2-10   0.2-10		
0.2-10		
12		
1.2-2.0   Slotted M 4		
6.3x32 / 6.3x25		
PA 6.6   -40 to +105°C		
-   -		

IEC	UL	cUL
See above		
10	16	16
10   22-12		
8   3		
1.6		
A4   V2		
0.2-10   -		
0.2-10   0.2-10		
0.2-10		
12		
1.2-2.0   Slotted M 4		
6.3x32 / 6.3x25		
PA 6.6   -40 to +105°C		
-   -		

	Page	Qty.
AQI 2/8/18 YE	293	50
<b>3991.8</b>		
AQI 3/10/18 YE	293	50
<b>3992.8</b>		
AQI 4/10/18 YE	293	50
<b>3993.8</b>		
AQI 10/10/18 YE	293	10
<b>3994.8</b>		
AQI 50/10/18 YE	293	1
<b>3995.8</b>		
SST/SIK/LED (RD)/12V DC/24V AC	74	10
<b>1113.2</b>		
SST/SIK/LED (RD)/20-30V DC/40-60V AC	74	10
<b>1114.2</b>		
SST/SIK/LED (RD)/40-60V DC/80-120V AC	74	10
<b>1115.2</b>		
SST/SIK/LED (RD)/115V DC/230V AC	74	10
<b>1116.2</b>		
SST/SIK/2LEDs (RD)/24V DC	74	10
<b>1117.2</b>		
SST/SIK/LED (RD) 500 V AC/DC	74	10
<b>17045.2</b>		
KH 63 f. SIK 10/Z	-	1
<b>2497.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0,8x4,0	422	1
<b>1087.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

	Page	Qty.
AQI 2/8/18 YE	293	50
<b>3991.8</b>		
AQI 3/10/18 YE	293	50
<b>3992.8</b>		
AQI 4/10/18 YE	293	50
<b>3993.8</b>		
AQI 10/10/18 YE	293	10
<b>3994.8</b>		
AQI 50/10/18 YE	293	1
<b>3995.8</b>		
SST/SIK/LED (RD)/12V DC/24V AC	74	10
<b>1113.2</b>		
SST/SIK/LED (RD)/20-30V DC/40-60V AC	74	10
<b>1114.2</b>		
SST/SIK/LED (RD)/40-60V DC/80-120V AC	74	10
<b>1115.2</b>		
SST/SIK/LED (RD)/115V DC/230V AC	74	10
<b>1116.2</b>		
SST/SIK/2LEDs (RD)/24V DC	74	10
<b>1117.2</b>		
SST/SIK/LED (RD) 500 V AC/DC	74	10
<b>17045.2</b>		
KH 63 f. SIK 10/Z	-	1
<b>2497.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0,8x4,0	422	1
<b>1087.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

	Page	Qty.
AQI 2/8/18 YE	293	50
<b>3991.8</b>		
AQI 3/10/18 YE	293	50
<b>3992.8</b>		
AQI 4/10/18 YE	293	50
<b>3993.8</b>		
AQI 10/10/18 YE	293	10
<b>3994.8</b>		
AQI 50/10/18 YE	293	1
<b>3995.8</b>		
KH 63 f. SIK 10/Z	-	1
<b>2497.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0,8x4,0	422	1
<b>1087.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

## Fuse disconnect terminals

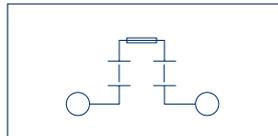
### Screw connection system



- Foot can be snapped on TS 16, TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

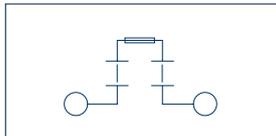
### Connection diagram

#### STK 2/15



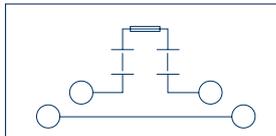
Fuse-disconnect terminal  
2 connections/hinged lever

#### STK 2



Fuse-disconnect terminal  
2 connections/hinged lever

#### STKD 1



Fuse-disconnect terminal  
2 connections/hinged lever

### Connection type

Size (L x W x H) mm with TS 15 mm

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

### Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Max. power loss, W

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Fuse size(on page 324)

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

**Cat. no.**

External insulated cross-connection AQI

**Cat. no.** 2 poles

External insulated cross-connection AQI

**Cat. no.** 3 poles

External insulated cross-connection AQI

**Cat. no.** 4 poles

Connecting piece VBS, for joining two fuse-disconnect levers

**Cat. no.**

Connecting piece VBS, for joining three fuse-disconnect levers

**Cat. no.**

solid link KH

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

### Screw connection

51.4 x 8 x 34

### Qty.

STK 2/15 BG

**1190.2**

100

STK 2/15 BU

**1190.5**

100

### Screw connection

51.4 x 8 x 43.5

51.4 x 8 x 39

### Qty.

STK 2 BG

**1078.2**

100

STK 2 BU

**1078.5**

100

### Screw connection

67 x 8 x 60

67 x 8 x 55.5

### Qty.

STKD 1 BG

**1079.2**

100

STKD 1 BU

**1079.5**

100

② .5		
IEC	CSAus	CSA
500	600	500
6.3	16	6.3
4   22-12		
4   3		
1.6		
A4   V2		

② .5		
IEC	CSAus	CSA
500	600	500
6.3	16	6.3
4   22-12		
4   3		
1.6		
A4   V2		

② .5		
IEC	CSAus	CSA
500	600	500
6.3	16	6.3
4   22-12		
4   3		
1.6		
A4   V2		

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

PA 6.6   -40 to +105°C
-   -

PA 6.6   -40 to +105°C
-   -

PA 6.6   -40 to +105°C
-   -

	Page	Qty.
AP/SI-2 BG		
<b>2186.2</b>	278	50
AQI 2/8/11 YE		
<b>2067.0</b>	293	50
AQI 3/8/11 YE		
<b>2068.0</b>	293	50
AQI 4/8/11 YE		
<b>2069.0</b>	293	50

	Page	Qty.
AP/SI-2 BG		
<b>2186.2</b>	278	50
AQI 2/8/11 YE		
<b>2067.0</b>	293	50
AQI 3/8/11 YE		
<b>2068.0</b>	293	50
AQI 4/8/11 YE		
<b>2069.0</b>	293	50

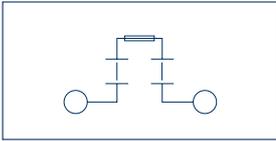
	Page	Qty.
AP/SID 1 BG		
<b>2187.2</b>	278	50
AQI 2/8/11 YE		
<b>2067.0</b>	293	50
AQI 3/8/11 YE		
<b>2068.0</b>	293	50
AQI 4/8/11 YE		
<b>2069.0</b>	293	50

KH 5		
<b>2470.0</b>	66	1
ES 35/K/ST BG		
<b>2828.0</b>	274	50
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 8/40 WH		
<b>9323.7</b>	342	400

KH 5		
<b>2470.0</b>	66	1
ES 35/K/ST BG		
<b>2828.0</b>	274	50
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 8/40 WH		
<b>9323.7</b>	342	400

KH 5		
<b>2470.0</b>	66	1
ES 35/K/ST BG		
<b>2828.0</b>	274	50
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 8/40 WH		
<b>9323.7</b>	342	400

**STK 1/15**



Fuse-disconnect terminal  
2 connections/hinged lever

**Screw connection**  
57.5 x 8 x 38.5

	Qty.
STK 1/15 BG	100
STK 1/15 BU	100
<b>2191.5</b>	

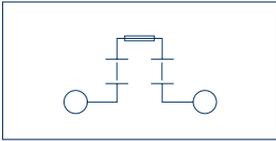
IEC	UL	CSA
400	600	500
6.3	16	6.3
4   22-12		
6   3		
1.6		
A4   V2		

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

PA 6.6 | -40 to +105°C

	Page	Qty.
AP SI-1 BG	278	50
<b>2046.2</b>		
AQI 2/8/11 YE	293	50
<b>2067.0</b>		
AQI 3/8/11 YE	293	50
<b>2068.0</b>		
AQI 4/8/11 YE	293	50
<b>2069.0</b>		
VBS 2/10 OG	316	20
<b>2873.2</b>		
VBS 3/10 OG	316	20
<b>2874.2</b>		
KH 5	66	1
<b>2470.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

**STK 1/15 LED**



Fuse-disconnect terminal  
2 connections/hinged lever

**Screw connection**  
57.5 x 8 x 38.5

	Qty.
STK 1/15/LED (RD) BG	100
24 V DC	<b>2459.2</b>
48 V DC	<b>2460.2</b>
60 V DC	<b>2461.2</b>
115 V DC	<b>2462.2</b>
230 V DC	<b>2463.2</b>

24 V AC	<b>2464.2</b>	100
48 V AC	<b>2465.2</b>	100
60 V AC	<b>2466.2</b>	100
115 V AC	<b>2467.2</b>	100
230 V AC	<b>2468.2</b>	100

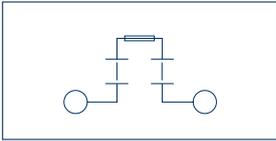
IEC	UL	CSA
400	600	500
6.3	16	6.3
4   22-12		
-   3		
1.6		
A4   V2		

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

PA 6.6 | -40 to +105°C

	Page	Qty.
AP SI-1 BG	278	50
<b>2046.2</b>		
AQI 2/8/11 YE	293	50
<b>2067.0</b>		
AQI 3/8/11 YE	293	50
<b>2068.0</b>		
AQI 4/8/11 YE	293	50
<b>2069.0</b>		
VBS 2/10 OG	316	20
<b>2873.2</b>		
VBS 3/10 OG	316	20
<b>2874.2</b>		
KH 5	66	1
<b>2470.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

**STK 1**



Fuse-disconnect terminal  
2 connections/hinged lever

**Screw connection**  
57.5 x 8 x 45.5  
57.5 x 8 x 41

	Qty.
STK 1 BG	100
STK 1 BU	100
<b>2190.5</b>	

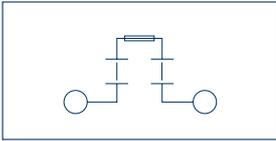
IEC	UL	CSA
400	600	500
6.3	16	6.3
4   22-12		
6   3		
1.6		
A4   V2		

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

PA 6.6 | -40 to +105°C

	Page	Qty.
AP SI-1 BG	278	50
<b>2046.2</b>		
AQI 2/8/11 YE	293	50
<b>2067.0</b>		
AQI 3/8/11 YE	293	50
<b>2068.0</b>		
AQI 4/8/11 YE	293	50
<b>2069.0</b>		
VBS 2/10 OG	316	20
<b>2873.2</b>		
VBS 3/10 OG	316	20
<b>2874.2</b>		
KH 5	66	1
<b>2470.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

**STK 1 LED**



Fuse-disconnect terminal  
2 connections/hinged lever

**Screw connection**  
57.5 x 8 x 45.5  
57.5 x 8 x 41

	Qty.
STK 1/LED (RD) BG	100
24 V DC	<b>2449.2</b>
48 V DC	<b>2450.2</b>
60 V DC	<b>2451.2</b>
115 V DC	<b>2452.2</b>
230 V DC	<b>2453.2</b>

24 V AC	<b>2454.2</b>	100
48 V AC	<b>2455.2</b>	100
60 V AC	<b>2456.2</b>	100
115 V AC	<b>2457.2</b>	100
230 V AC	<b>2458.2</b>	100

IEC	UL	CSA
400	600	500
6.3	16	6.3
4   22-12		
-   3		
1.6		
A4   V2		

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
5x20 / 5x25

PA 6.6 | -40 to +105°C

	Page	Qty.
AP SI-1 BG	278	50
<b>2046.2</b>		
AQI 2/8/11 YE	293	50
<b>2067.0</b>		
AQI 3/8/11 YE	293	50
<b>2068.0</b>		
AQI 4/8/11 YE	293	50
<b>2069.0</b>		
VBS 2/10 OG	316	20
<b>2873.2</b>		
VBS 3/10 OG	316	20
<b>2874.2</b>		
KH 5	66	1
<b>2470.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

Glass-fibre reinforced fused terminals SIK | SK

Screw connection system



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from Polyamide 6.6 V0, glass-fibre reinforced

Connection type

Size (L x W x H) mm with TS 32 mm

Size (L x W x H) mm with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Rated specifications acc. to

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Fuse size, mm (on page xxx)

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Screw cap SKA (spare)

Cat. no.

Screw cap SKA (spare)

Cat. no.

Insulated cross-connector AQI

QS cross-connection rail

Cat. no.

Insulated cross-connector AQI

Mounting screw BS for the QS

Cat. no.

End stop ES

Cat. no.

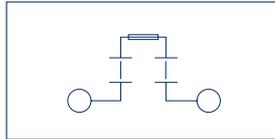
Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

SIK 10/Z PA-G



Fused terminal  
2 connections/hinged lever

Screw connection

60 x 10 x 69

SIK 10/Z PA-G BK

17041.4

Qty. 25

IEC 500

CSAus 600

CSA 600

10

16

16

10 | 22-12

8 | 3

A4 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M4

6.3 x 32 | 6.3 x 2.5

PA 6.6 GV 20 | -40 to +140°C

- | 1

Page

Qty.

293

50

AQI 2/10/18 YE

3991.8

293

50

AQI 3/10/18 YE

3992.8

293

50

AQI 4/10/18 YE

3993.8

293

50

AQI 10/10/18 YE

3993.8

293

50

AQI 50/10/18 YE

3993.8

293

50

ES 35/K/ST BG

2828.0

274

50

SDB 0.6x3.5

1086.0

422

1

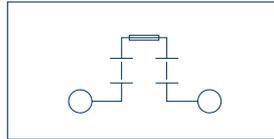
PMC SB 8/40 WH

9323.7

342

400

SK 1/35 PA-G



Fused terminal  
2 connections / screw cap

Screw connection

52 x 12.2 x 62

SK 1/35 PA-G BK

1367.4

Qty. 20

IEC 400

CSAus 250

CSA 250

10

6.3

6.3

10 | 22-8

4 | 3

A5 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M4

5 x 20

PA 6.6 GV 20 | -40 to +140°C

1 | 1

Page

Qty.

278

1

AP SI BK

2047.4

278

1

SKA 5x20

2049.2

78

20

SKA 5x20

2048.2

78

20

QS 2

2366.0

296

50

QS 3

2367.0

296

50

QS 4

2368.0

296

20

QS 10

2369.0

297

10

BS M 3x6

2365.0

422

100

ES 35/K/ST BG

2828.0

340

50

SDB 0,8x4,0

1087.0

422

1

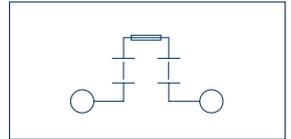
PMC SB 8/40 WH

9323.7

342

400

SK 1/35 LED PA-G



Fused terminal  
2 connections / screw cap

Screw connection

52 x 12.2 x 62

SK 1/35 LED PA-G with LED

24 V DC 1380.4

Qty. 20

48 V DC 1067.4

20

24 V AC 1004.4

20

48 V AC 1119.4

20

SK 1/35 GPA-G with neon indicator lamp

115 V AC 1376.4

20

230 V AC 1375.4

20

SK 1/35 G PA-G with glow lamp

24 V AC/DC 1369.4

20

Fuse size 5x20 mm

IEC See above

CSAus 6.3

CSA 6.3

10

6.3

6.3

10 | 22-8

4 | 3

A5 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M4

5 x 20

PA 6.6 GV 20 | -40 to +140°C

- | 1

Page

Qty.

278

1

AP SI BK

2047.4

278

1

SKA 5x20

2049.2

78

20

SKA 5x20

2048.2

78

20

QS 2

2366.0

296

50

QS 3

2367.0

296

50

QS 4

2368.0

296

20

QS 10

2369.0

296

10

BS M 3x6

2365.0

297

100

ES 35/K/ST BG

2828.0

274

50

SDB 0,8x4,0

1087.0

422

1

PMC SB 8/40 WH

9323.7

342

400

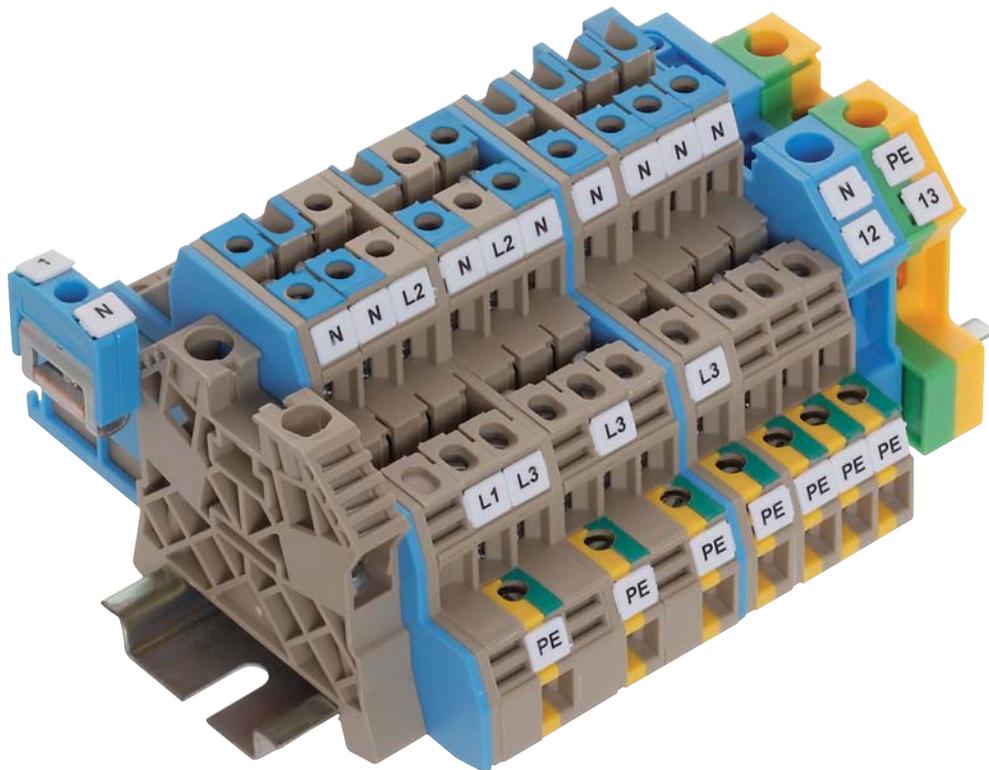


## Three-wire installation terminals DLIS/DLI



VDE 100 (IEC 364) and VDE 0108 establish the requirement that a circuit's association must be clearly detectable. They also require that an insulation test can be performed on each terminal without disconnecting the N-wire. This is a specific requirement for public buildings such as hospitals, schools, airports, office buildings and institutions.

The relevant busbar is positioned on the outside of the terminals and held in place using the **HP** support plates. A sliding contact that contacts both sides of the busbar is used to connect and disconnect. This sliding contact permits functional testing independent of the operational mode.



## Three-wire installation terminals DLIS/DLI

### The features in detail

#### Installation terminals for neutral rails 10 x 3

Neutral cross-connections via the **Ssch** busbar system: **10 x 3** up to 140 A. Power is supplied using a separate clamping yoke or with an NT disconnect terminal.

#### Installation terminals for neutral cross-connection systems

The neutral cross-connection takes place with the **Q** standard cross-connection system (up to 24 A). Power is supplied directly using the neutral connection of the terminal block.

#### Contacting and fitting of neutral busbars

The neutral disconnect terminals can hold a 10 x 3 mm neutral busbar. A fixing plate is required for the mechanical attachment. They must be attached to the start and end of the terminal strip unit. For longer applications, fixing plates should also be used in the middle. The neutral slider establishes a safe contact with the busbar. It can be disconnected from within the terminal housing using the screw connection.

#### Connecting the PE foot onto the DIN rail

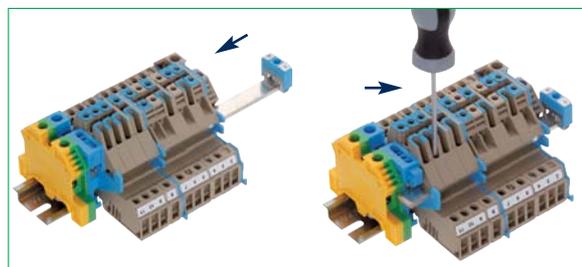
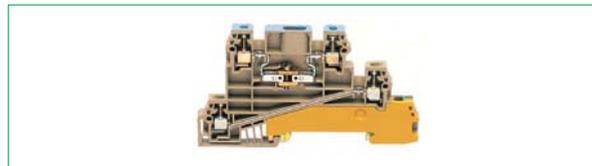
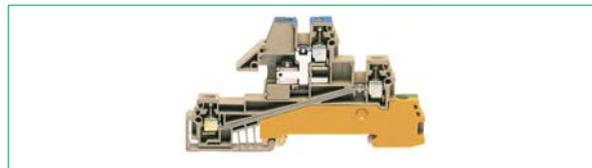
As with all **CONTA-CLIP** PE terminals, the **FSL** terminals also implement a two-sided contact with the DIN rail. The **TS 35** is used as the PE busbar.

#### Block versions

Block version terminals are connected underneath each other with pegs. This results in increased design stability compared with individual terminals. They are quick and easy to connect and require only one hand grip. Removing the blocks is just as quick – using the connected feet with the help of a screwdriver.

#### General information:

- The three wires (phase/neutral/PE) of a single-phase circuit can be connected to the **DLIS/2.5 PE/L/NT** and the **DLI 2.5/PE/L/NT**.
- The corresponding feed-through connections can be cross-connected.
- Combination options with the standard feed-through, neutral and PE terminals.
- The individual terminals can be swapped out independently of the neighbouring terminals and without removing the neutral busbar.
- The mechanical height of the N busbar is tailored to fit both the DLIS and NT terminals.
- The neutral connections are colour-coded blue and the PE connections are coded green/yellow.



### Three-wire installation terminals DLIS

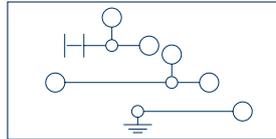
**Screw connection system**



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V2

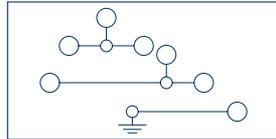
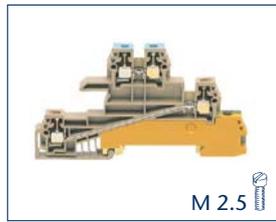
**Connection diagram**

**DLIS 2.5 PE/L/NT**



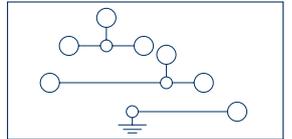
Three-wire installation terminal, 4 connections

**DLIS 2.5 PE/L/N**



Three-wire installation terminal, 5 connections

**DLIS 2.5 PE/L/L**



Three-wire installation terminal, 5 connections

**Connection type**

Size (L x W x H) with TS 35 x 7.5 mm

**Screw connection**

90.5 x 6 x 53

**Screw connection**

90.5 x 6 x 53

**Screw connection**

90.5 x 6 x 53

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Rated specifications acc. to**

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Fixing plate HP

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Busbar Ssch

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

Cross-connector Q

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**DLIS 2.5 PE/L/NT**

DLIS 2.5 PE/L/NT BG

**1410.2**

**Qty.**

50

**DLIS 2.5 PE/L/N**

DLIS 2.5 PE/L/N BG

**1411.2**

**DLIS 2.5 PE/L/L**

DLIS 2.5 PE/L/L BG

**1412.2**

**Qty.**

50

②

**IEC**

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

8

0.4-0.8 | Slotted M 2.5

Busbar 10 x 3

PA 6.6 | -40 to +105°C

2 | -

**Page Qty.**

AP 2.5/S BG

**2829.2**

278

20

HP DLIS BU

**2890.5**

83

20

TRS 3 BG

**2566.2**

316

100

Ssch 10x3 CU

**2129.0**

83

1m

Q 2

**2832.0**

288

50

Q 3

**2833.0**

288

50

Q 4

**2834.0**

288

20

Q 10

**2835.0**

288

10

Q 20

**2836.0**

288

10

Q 0.5m/83 poles

**2154.0**

288

1

ES 35/K/ST BG

**2828.0**

274

1

SDB 0.5x3.0

**1085.0**

422

1

PMC SB 6/50 WH

**4702.7**

340

500

②

**IEC**

400/250

24

2.5 | 22-14

6 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

8

0.4 - 0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

2 | -

**Page Qty.**

AP 2.5/S BG

**2829.2**

278

20

TRS 3 BG

**2566.2**

316

100

Q 2

**2832.0**

288

50

Q 3

**2833.0**

288

50

Q 4

**2834.0**

288

20

Q 10

**2835.0**

288

10

Q 20

**2836.0**

288

10

Q 0.5m/83 poles

**2154.0**

288

1

ES 35/K/ST BG

**2828.0**

274

1

SDB 0.5x3.0

**1085.0**

422

1

PMC SB 6/50 WH

**4702.7**

340

500

②

**IEC**

400/250

24

2.5 | 22-14

6 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

8

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

2 | -

**Page Qty.**

AP 2.5/S BG

**2829.2**

278

20

TRS 3 BG

**2566.2**

316

100

Q 2

**2832.0**

288

50

Q 3

**2833.0**

288

50

Q 4

**2834.0**

288

20

Q 10

**2835.0**

288

10

Q 20

**2836.0**

288

10

Q 0.5m/83 poles

**2154.0**

288

1

ES 35/K/ST BG

**2828.0**

274

1

SDB 0.5x3.0

**1085.0**

422

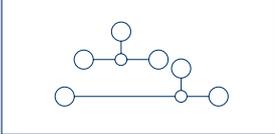
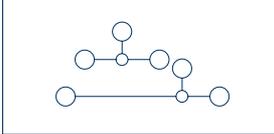
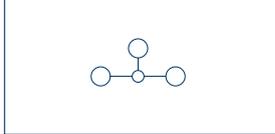
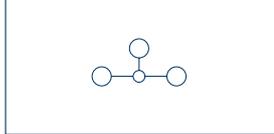
1

PMC SB 6/50 WH

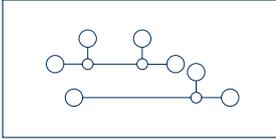
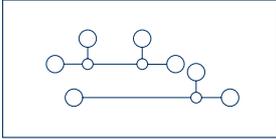
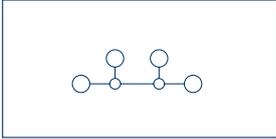
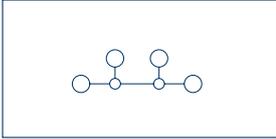
**4702.7**

340

500

DLIS 2.5 L/N	DLIS 2.5 L/N	DLIS 2.5 N	DLIS 2.5 L	Busbar
				
M 2.5 	M 2.5 	M 2.5 	M 2.5 	
				
Three-wire installation terminal, 4 connections	Three-wire installation terminal, 4 connections	Three-wire installation terminal, 2 connections	Three-wire installation terminal, 2 connections	
<b>Screw connection</b> 90.5 x 6 x 53				
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
DLIS 2.5 L/N BG <b>1413.2</b> 50	DLIS 2.5 L/N BG <b>1414.2</b> 50	DLIS 2.5 N BG <b>1415.2</b> 50	DLIS 2.5 L BG <b>1416.2</b> 50	Ssch 10x3 CU <b>2129.0</b> 1m Ssch 10x3 MS <b>2128.0</b> 1m
<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	
<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	
400/250	400/250	400/250	400/250	
24	24	24	24	
2.5   22-14	2.5   22-14	2.5   22-14	2.5   22-14	140 CU   100 MS
6   3	6   3	6   3	6   3	
A3   V2	A3   V2	A3   V2	A3   V2	
0.2-4   -	0.2-4   -	0.2-4   -	0.2-4   -	
0.2-4   0.2-2.5	0.2-4   0.2-2.5	0.2-4   0.2-2.5	0.2-4   0.2-2.5	
0.2-4	0.2-4	0.2-4	0.2-4	
8	8	8	8	
0.4-0.8   Slotted M 2.5				
PA 6.6   -40 to +105°C				
2   -	2   -	1   -	1   -	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
AP 2.5/S BG <b>2829.2</b> 278 20				
TRS 3 BG <b>2566.2</b> 316 100				
Q 2 <b>2832.0</b> 288 50				
Q 3 <b>2833.0</b> 288 50				
Q 4 <b>2834.0</b> 288 20				
Q 10 <b>2835.0</b> 288 10				
Q 20 <b>2836.0</b> 288 10				
Q 0.5m/83 poles <b>2154.0</b> 288 1				
ES 35/K/ST BG <b>2828.0</b> 274				
SDB 0.5x3.0 <b>1085.0</b> 422 1				
PMC SB 6/50 WH <b>4702.7</b> 340 500				



DLI 2.5 L/N	DLI 2.5 L/N	DLI 2.5 N	DLI 2.5 L	
 M 2.5	 M 2.5	 M 2.5	 M 2.5	
				
Three-wire installation terminal, 4 connections	Three-wire installation terminal, 4 connections	Three-wire installation terminal, 2 connections	Three-wire installation terminal, 2 connections	
<b>Screw connection</b> 90.5 x 6 x 53	<b>Screw connection</b> 90.5 x 6 x 53	<b>Screw connection</b> 90.5 x 6 x 53	<b>Screw connection</b> 90.5 x 6 x 53	
<b>Qty.</b> DLI 2.5 L/N BG <b>1420.2</b> 50	<b>Qty.</b> DLI 2.5 L/N BG <b>1421.2</b> 50	<b>Qty.</b> DLI 2.5 N BG <b>1422.2</b> 50	<b>Qty.</b> DLI 2.5 L BG <b>1423.2</b> 50	

②			②			②			②		
IEC	CSAus	CSA									
400/250	300	300	400/250	300	300	400/250	300	300	400/250	300	300
24	15	15	24	15	15	24	15	15	24	15	15
2.5   22-14			2.5   22-14			2.5   22-14			2.5   22-14		
6   3			6   3			6   3			6   3		
A3   V2			A3   V2			A3   V2			A3   V2		
0.2-4   -			0.2-4   -			0.2-4   -			0.2-4   -		
0.2-4   0.2-2.5			0.2-4   0.2-2.5			0.2-4   0.2-2.5			0.2-4   0.2-2.5		
0.2-4			0.2-4			0.2-4			0.2-4		
8			8			8			8		
0.4-0.8   Slotted M 2.5			0.4-0.8   Slotted M 2.5			0.4-0.8   Slotted M 2.5			0.4-0.8   Slotted M 2.5		

PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C		
3   -			3   -			2   -			2   -		
Page	Qty.		Page	Qty.		Page	Qty.		Page	Qty.	
AP 2.5 D BG <b>2831.2</b>	278	20	AP 2.5 D BG <b>2831.2</b>	278	20	AP 2.5 D BG <b>2831.2</b>	278	20	AP 2.5 D BG <b>2831.2</b>	278	20
TRS 3 BG <b>2566.2</b>	316	100									
Q 2 <b>2832.0</b>	288	50									
Q 3 <b>2833.0</b>	288	50									
Q 4 <b>2834.0</b>	288	20									
Q 10 <b>2835.0</b>	288	10									
Q 20 <b>2836.0</b>	288	10									
Q 0.5m/83 poles <b>2154.0</b>	288	1									
ES 35/K/ST BG <b>2828.0</b>	274		ES 35/K/ST BG <b>2828.0</b>	274		ES 35/K/ST BG <b>2828.0</b>	274		ES 35/K/ST BG <b>2828.0</b>	274	
SDB 0.5x3.0 <b>1085.0</b>	422	1									
PMC SB 6/50 WH <b>4702.7</b>	340	500	PMC SB 6/50 WH <b>4702.7</b>	340	500	PMC SB 6/50 WH <b>4702.7</b>	340	500	PMC SB 6/50 WH <b>4702.7</b>	340	500

Three-wire installation terminals and block versions DLIS / DLI

Screw connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour block for three-phase circuits

Cat. no.

Type colour block for AC circuits

Cat. no.

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Fixing plate HP

Cat. no.

Insulation plate TRS

Cat. no.

Busbar Ssch

Cat. no.

Cross-connector Q

2 poles

Cat. no.

Cross-connector Q

3 poles

Cat. no.

Cross-connector Q

4 poles

Cat. no.

Cross-connector Q

10 poles

Cat. no.

Cross-connector Q

20 poles

Cat. no.

Cross-connector Q

83 poles

Cat. no.

End stop ES

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

DLIS 2.5 B-D



M 2.5

DLIS 2.5 B-W



M 2.5

DLIS 2.5 B-3L/3N/3PE



M 2.5



Three-wire installation terminals, three-phase block



Three-wire installation terminals, AC block



Three-wire installation terminals, AC block

Screw connection

90.5 x 12 x 53

Screw connection

90.5 x 18 x 53

Screw connection

90.5 x 18 x 53

Qty.

DLIS 2.5 B-D BG

1447.2

25

Qty.

DLIS 2.5 B-W BG

1446.2

16

Qty.

DLIS 2.5 B-3L/3N/3PE BG

2715.2

16

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

②

IEC

400/250

24

2.5 | 22-14

4 | 3

A3 | V2

More accessories starting on page 264.

DLIS 2.5 B-3L/N/PE	DLIS 2.5 B-6L	DLIS 2.5 B-6L/3 PE	DLI 2.5 B-D	DLI 2.5 B-W
				
M 2.5 	M 2.5 	M 2.5 	M 2.5 	M 2.5 
Three-wire installation terminals, AC block	Three-wire installation terminals, AC block	Three-wire installation terminals, AC block	Three-wire installation terminals, three-phase block	Three-wire installation terminals, AC block
<b>Screw connection</b> 90.5 x 18 x 53	<b>Screw connection</b> 90.5 x 18 x 53	<b>Screw connection</b> 90.5 x 18 x 53	90.5 x 12 x 53	90.5 x 18 x 53
<b>Qty.</b> DLIS 2.5 B-3L/N/PE BG <b>2716.2</b> 16	<b>Qty.</b> DLIS 2.5 B-6L BG <b>2717.2</b> 16	<b>Qty.</b> DLIS 2.5 B-6L/3PE BG <b>2718.2</b> 16	<b>Qty.</b> DLI 2.5 B-D BG <b>1449.2</b> 25	<b>Qty.</b> DLI 2.5 B-W BG <b>1448.2</b> 16
<b>IEC</b> 400/250 24 2.5   22-14 4   3 A3   V2 0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.4-0.8   Slotted M 2.5	<b>IEC</b> 400/250 24 2.5   22-14 4   3 A3   V2 0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.4-0.8   Slotted M 2.5	<b>IEC</b> 400/250 24 2.5   22-14 4   3 A3   V2 0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.4-0.8   Slotted M 2.5	<b>IEC UL CSA</b> 400/250 300 300 24 15 15 2.5   22-14 4   3 A3   V2 0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.4-0.8   Slotted M 2.5	<b>IEC UL CSA</b> 400/250 300 300 24 15 15 2.5   22-14 4   3 A3   V2 0.2-4   - 0.2-4   0.2-2.5 0.2-4 8 0.4-0.8   Slotted M 2.5
PA 6.6   -40 to +105°C 2   -	PA 6.6   -40 to +105°C 2   -	PA 6.6   -40 to +105°C 2   -	PA 6.6   -40 to +105°C -   -	PA 6.6   -40 to +105°C 3   -
<b>Page Qty.</b> AP 2.5/S BG <b>2829.2</b> 278 20 HP DLIS BU <b>2890.5</b> 83 20	<b>Page Qty.</b> AP 2.5/S BG <b>2829.2</b> 278 20 HP DLIS BU <b>2890.5</b> 83 20 TRS 2 BG <b>2566.2</b> 316 100	<b>Page Qty.</b> AP 2.5/S BG <b>2829.2</b> 278 20 HP DLIS BU <b>2890.5</b> 83 20 TRS 2 BG <b>2566.2</b> 316 100	<b>Page Qty.</b> AP 2.5/D BG <b>2831.2</b> 278 20	<b>Page Qty.</b> AP 2.5/D BG <b>2831.2</b> 278 20
Q 2 <b>2832.0</b> 288 50 Q 3 <b>2833.0</b> 288 50 Q 4 <b>2834.0</b> 288 20 Q 10 <b>2835.0</b> 288 10 Q 20 <b>2836.0</b> 288 10 Q 0.5m/83 poles <b>2154.0</b> 288 1 ES 35/K/ST BG <b>2828.0</b> 274 SDB 0.5x3.0 <b>1085.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	Q 2 <b>2832.0</b> 288 50 Q 3 <b>2833.0</b> 288 50 Q 4 <b>2834.0</b> 288 20 Q 10 <b>2835.0</b> 288 10 Q 20 <b>2836.0</b> 288 10 Q 0.5m/83 poles <b>2154.0</b> 288 1 ES 35/K/ST BG <b>2828.0</b> 274 SDB 0.5x3.0 <b>1085.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	Q 2 <b>2832.0</b> 288 50 Q 3 <b>2833.0</b> 288 50 Q 4 <b>2834.0</b> 288 20 Q 10 <b>2835.0</b> 288 10 Q 20 <b>2836.0</b> 288 10 Q 0.5m/83 poles <b>2154.0</b> 288 1 ES 35/K/ST BG <b>2828.0</b> 274 SDB 0.5x3.0 <b>1085.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	ES 35/K/ST BG <b>2828.0</b> 274 SDB 0.5x3.0 <b>1085.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	ES 35/K/ST BG BG <b>2828.0</b> 274 SDB 0.5x3.0 <b>1085.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500

**Neutral feed-in disconnect terminals NT**

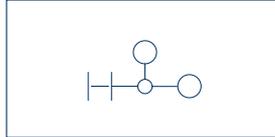
**Screw connection system**



- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

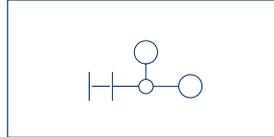
**Connection diagram**

**NT 2.5-4 10 x 3**



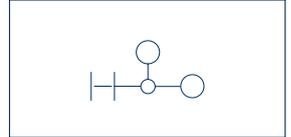
neutral disconnect terminal, 1 connection

**NT 2.5-4 6 x 6**



neutral disconnect terminal, 1 connection

**NT 6-10 10 x 3**



neutral disconnect terminal, 1 connection

**Connection type**

Size (L x W x H) with TS 32, mm

Size (L x W x H) with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

Fixing plate HP

**Cat. no.**

Test plug PS

**Cat. no.**

Busbar Ssch CU

**Cat. no.**

Busbar Ssch MS

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**Screw connection**

48 x 6 x 51.5

48 x 6 x 47

**Qty.**

NT 2.5-4 | 10x3 BU

**1214.5** 100

**Screw connection**

43 x 6 x 51.5

48 x 6 x 47

**Qty.**

NT 2.5-4 | 6x6 BU

**1216.5** 100

**Screw connection**

48 x 8 x 51.5

48 x 8 x 47

**Qty.**

NT 6-10 | 10x3 BU

**1215.5** 50

5

**IEC**

400

32

4 | 22-10

4 | 3

A4 | V2

0.2-6 | -

0.2-6 | 0.2-4

0.2 - 6

12

0.5-1.0 | Slotted M 3

Busbar 10 x 3

PA 6.6 | -40 to +105°C

- | -

**Page Qty.**

HP 10x3 BU

**2576.5** 88 20

PS 2.3

**2007.0** 317 50

Ssch 10x3 CU

**2129.0** 83 1 m

Ssch 10x3 MS

**2128.0** 83 1 m

ES 35/K/ST BG

**2828.0** 274

SDB 0.6x3.5

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

5

**IEC**

400

32

4 | 22-10

4 | 3

A4 | V2

0.2-6 | -

0.2-6 | 0.2-4

0.2 - 6

12

0.5-1.0 | Slotted M 3

Busbar 6 x 6

PA 6.6 | -40 to +105°C

- | -

**Page Qty.**

HP 6x6 BU

**2577.5** 88 20

PS 2.3

**2007.0** 317 50

Ssch 6x6 CU

**2131.0** 89 1 m

Ssch 6x6 MS

**2132.0** 89 1 m

ES 35/K/ST BG

**2828.0** 274

SDB 0.6x3.5

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

5

**IEC**

400

57

10 | 22-10

4 | 3

A5 | V2

0.2-10 | -

0.2-10 | 0.2-10

0.2 - 10

12

1.2-2.0 | Slotted M 4

Busbar 10 x 3

PA 6.6 | -40 to +105°C

- | -

**Page Qty.**

HP 10x3 BU

**2576.5** 88 20

PS 2.3

**2007.0** 317 50

Ssch 10x3 CU

**2129.0** 83 1 m

Ssch 10x3 MS

**2128.0** 83 1 m

ES 35/K/ST BG

**2828.0** 274

SDB 0.8x4.0

**1087.0** 422 1

PMC SB 8/40 WH

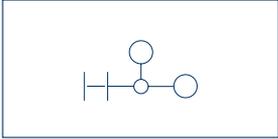
**9323.7** 342 400

**NT 6-10 6 x 6**

**Busbar**



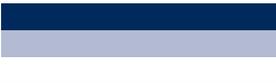
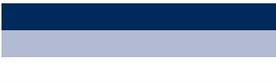
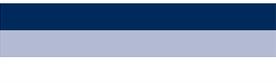
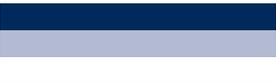
M 4



neutral disconnect terminal, 1 connection



**Screw connection**  
48 x 6 x 51.5  
48 x 6 x 47



	<b>Qty.</b>
NT 6-10   6x6 BU	50
<b>1217.5</b>	

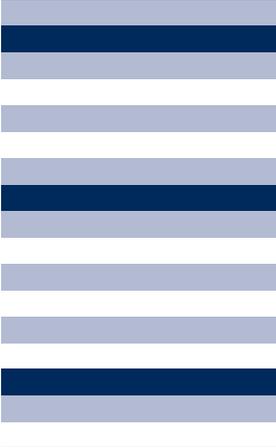
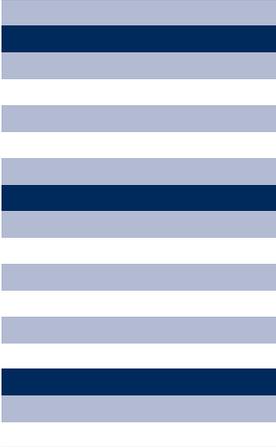
	<b>Qty.</b>
Ssch 10x3 CU	1m
<b>2129.0</b>	
Ssch 10x3 MS	1m
<b>2128.0</b>	
Ssch 6x6 CU	1m
<b>2131.0</b>	
Ssch 6x6 MS	1m
<b>2132.0</b>	



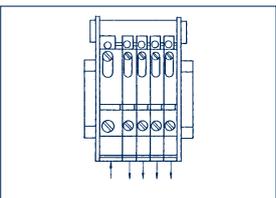
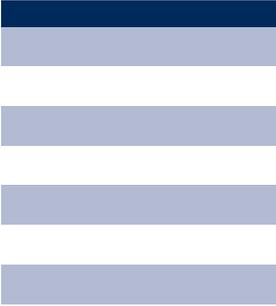
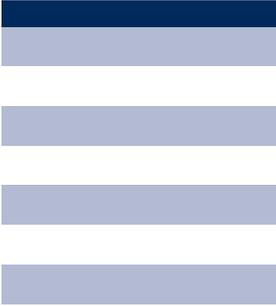
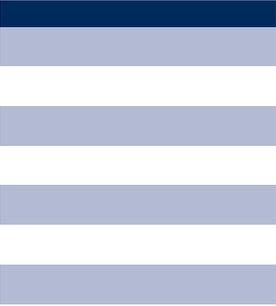
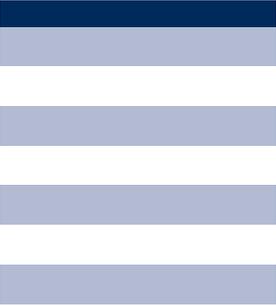
5

**IEC**  
400  
57  
10 | 22-10  
4 | 3  
A5 | V2  
0.2-10 | -  
0.2-10 | 0.2-10  
0.2 - 10  
12  
1.2-2.0 | Slotted M 4  
Busbar 6 x 6  
PA 6.6 | -40 to +105°C  
- | -

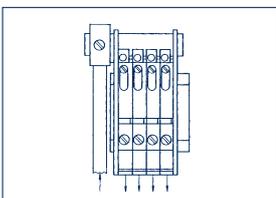
140 CU | 100 MS



	<b>Page</b>	<b>Qty.</b>
HP 10x3 BU	88	20
<b>2577.5</b>		
PS 2.3	317	50
<b>2007.0</b>		
Ssch 6x6 CU	89	1 m
<b>2131.0</b>		
Ssch 6x6 MS	89	1 m
<b>2132.0/</b>		
ES 35/K/ST BG	274	
<b>2828.0</b>		
SDB 0.8x4.0	422	1
<b>1087.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		



Feed-in with  
**NT 6-10**



Feed-in with  
**ZB 16/ZB 35**

## Busbar power feed PE/N via clamping yoke

### Screw connection system



- Material: steel
- Housing made from polyamide 6.6 UL 94-V2

### ZB 4 10 x 3



M 3

### ZB 4/6 6 x 6



M 3

### ZB 16 10 x 3



M 4

Clamping yoke

Clamping yoke

Clamping yoke

### Connection type

Dimensions (L x W x H)

### Screw connection

15.5 x 5.3 x 11.7

### Screw connection

12 x 5,5 x 15

### Screw connection

15.5 x 10 x 16.5

### Type

Type ZB without cap

**Cat. no.**

Type ZB with cap, colour

**Cat. no.**

Type ZB with cap, colour

**Cat. no.**

Type ZB with cap, colour

**Cat. no.**

### Qty.

ZB 4

**2138.0**

50

ZB 4/K GNYE

**2483.1**

50

ZB 4/K BU

**2483.5**

50

ZB 4/K BK

**2483.4**

50

### Qty.

ZB 4/6

**2328.0**

50

ZB 4/6/K GNYE

**2486.1**

50

ZB 4/6/K BU

**2486.5**

50

ZB 16

**2139.0**

50

ZB 16/K GNYE

**2484.1**

50

ZB 16/K BU

**2484.5**

50

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

0.5-4 | -

0.5-4 | -

2.5-16 | -

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

- | -

- | -

- | -

Contact wire range, mm<sup>2</sup>

- | V2

- | V2

- | V2

Stripping length, mm

Torque, Nm | Screw

0.5-1.0 | Slotted M 3

0.5-1.0 | Slotted M 3

1.2-2.0 | Slotted M 4

Special connection, mm

Busbar 10 x 3

Busbar 6 x 6

Busbar 10 x 3

### Features

Material of insulated housing | Temperature range

PA 6.6 | -40 to +105°C

PA 6.6 | -40 to +105°C

PA 6.6 | -40 to +105°C

Number of cross-connection channels | Test pick-off

-

-

-

### Accessories

Type cap, colour

**Cat. no.**

Type cap, colour

**Cat. no.**

Type cap, colour

**Cat. no.**

Busbar Ssch CU

**Cat. no.**

Busbar Ssch MS

**Cat. no.**

### Page Qty.

K 4 GNYE

**2488.1**

238

50

K 4 BU

**2488.5**

238

50

K 4 BK

**2488.4**

238

50

Ssch 10x3 CU

**2129.0**

83

1 m

Ssch 10x3 MS

**2128.0**

83

1 m

### Page Qty.

K 4/6 GNYE

**2491.1**

238

50

K 4/6 BU

**2491.5**

238

50

K 16 GNYE

**2489.1**

238

50

K 16 BU

**2489.5**

238

50

Ssch 10x3 CU

**2129.0**

89

1 m

Ssch 10x3 MS

**2128.0**

89

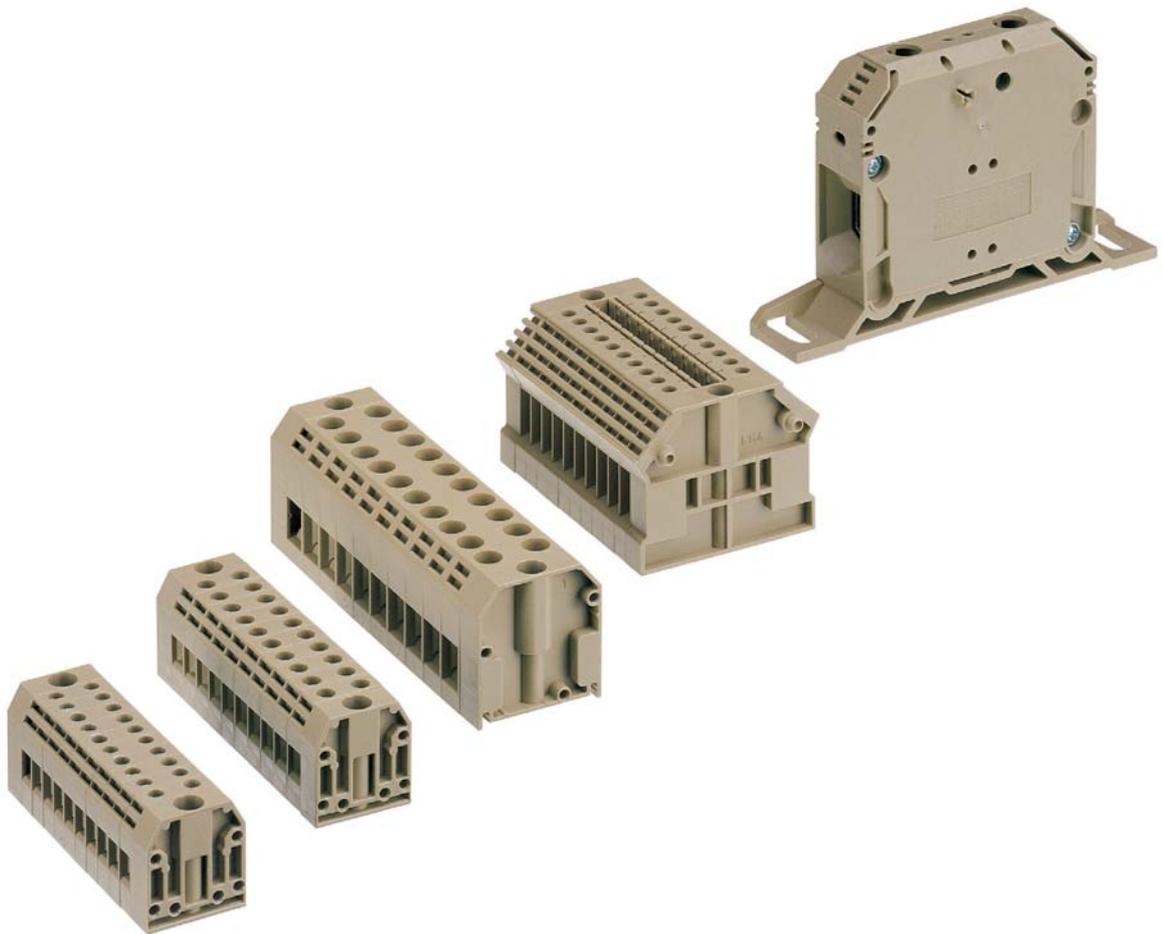
1 m

ZB 16/6 6 x 6		ZB 35 10 x 3		Busbar			
							
M 4 		M 6 					
Clamping yoke		Clamping yoke		Busbar			
Screw connection		Screw connection					
12 x 9.5 x 19.9		18 x 14 x 21					
Qty.		Qty.		Qty.			
ZB 16/6	50	ZB 35	20	Ssch 10x3 CU	1 m		
<b>2329.0</b>		<b>2305.0</b>		<b>2129.0</b>			
ZB 16/6/K GNYE	50	ZB 35/K GNYE	20	Ssch 10x3 MS	1 m		
<b>2487.1</b>		<b>2485.1</b>		<b>2128.0</b>			
ZB 16/6/K BU	50	ZB 35/K BU	20	Ssch 6x6 CU	1 m		
<b>2487.5</b>		<b>2485.5</b>		<b>2131.0</b>			
				Ssch 6x6 MS	1 m		
				<b>2132.0</b>			
				140 CU   100 MS			
2.5-16  -		16-35  -					
-   -		-   -					
-   V2		-   V2					
1.2-2.0   Slotted M 4		2.5-5.0   Slotted M 6					
PA 6.6   -40 to +105°C		PA 6.6   -40 to +105°C					
Page Qty.		Page Qty.		Page Qty.		Page Qty.	
K 16/6 GNYE	239 50	K 35 GNYE	239 50				
<b>2492.1</b>		<b>2490.1</b>					
K 16/6 BU	239 50	K 35 BU	239 50				
<b>2492.5</b>		<b>2490.5</b>					
Ssch 6x6 CU	89 1 m	Ssch 10x 3 CU	89 1 m				
<b>2131.0</b>		<b>2129.0</b>					
Ssch 6x6 MS	89 1 m	Ssch 10x3 MS	89 1 m				
<b>2132.0</b>		<b>2128.0</b>					

**Feed-through terminals for direct, no-rail mounting RKB, BKA, KBL.../RK...-D**



The **RKB**, **BKA** and **KBL...-D** block terminals are cost-effective connection systems which can be snapped together using their pegs to match your required number of poles. An **EH** end support is snapped on to each end of the block terminals. It provides a 3.5-mm hole for a mounting screw. If you are using more poles than available in the **CONTA-CLIP** product line, we recommend using additional **EH** end supports at intervals in order to maintain the stability. We recommend our **MV2/BKA** assembly fixture if you would like to link self-contained **BKA** terminal strips.



## Feed-through terminals for direct, no-rail mounting RKB, BKA, KBL.../RK...-D

### The features in detail

#### BKA 2.5/BKA 4 and BKA 10

The housings of the **BKA 2.5/BKA 4** and **BKA 10** block terminals offer touch-safe protection in compliance with VBG 4. The clamping-yoke screw connection system establishes a secure mechanical and electrical contact.

The compact design allows you to use the **BKA** blocks within the most confined spaces. For the **BKA 2.5** and **BKA 4** variants, the **EH 2-Z** with snap-in pegs can be attached instead of the **EH 2**. When using the **EH 2-Z**, the screw and the thread cutting is not necessary. If you need to use a cross-connection, you can make use of the external cross-connections available in our accessories.



#### Block terminals RKB and KBL...-D

The **RKB** and **KBL...-D** block terminals also provide all of the advantages of rail-mounted terminal blocks (such as the interior cross-connection system). Individual covers, test plugs, cross-connectors, etc. are compatible with the standard **RK** terminal blocks.



#### Terminal blocks RK 50-D to RK 240-D

The **RK 50-D** to **RK 240-D** terminals are connection elements for direct no-rail mounting with an external screw attachment. These terminals can be installed in any position within the switchgear cabinet and separately from a DIN rail. Individual covers, external cross-connectors, measurement pick-off terminals, etc. are also compatible with the standard terminal blocks.



## Feed-through terminals for direct installation BKA

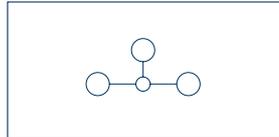
### Screw connection system



- Direct assembly
- Housing made from polyamide 6.6 UL 94-V2

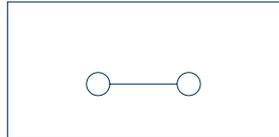
### Connection diagram

#### RKB 4



Feed-through terminal  
2 connections

#### BKA 2.5



Feed-through terminal  
2 connections



Direct mounting

### Connection type

Dimensions (L x W x H), directly installed, mm

#### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type 10 poles, block, colour

Cat. no.

Colours available

#### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

#### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

#### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

#### Accessories

End support EH / direct installation

Cat. no.

End support EH / rail mount

Cat. no.

End support EH /pegs

Cat. no.

Cross-connector Q / Insulated cross-connector QI

Cat. no.

External insulated cross-connection AQI

Cat. no.

Cross-connector Q / Insulated cross-connector QI

Cat. no.

External insulated cross-connection AQI

Cat. no.

Cross-connector Q / Insulated cross-connector QI

Cat. no.

External insulated cross-connection AQI

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

### Screw connection

27 x 6 x 27,5

Qty.

RKB 4 BG

**1018.2** 100

RKB 4 BU

**1018.5** 100

② ⑤

IEC UL

500 300

32 20

4 | 22-12

4 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.4 - 0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

1 | -

Page Qty.

EH 1 BG

**2135.2** 274 50

Q 2

**2087.0** 289 50

Q 3

**2088.0** 289 50

Q 4

**2089.0** 288 20

Q 10

**2090.0** 289 10

SDB 0.6x3.5

**1086.0** 422 1

PMC SD 6/50 WH

**4702.7** 340 500

### Screw connection

22 x 5 x 23

Qty.

BKA 2.5/1 BG

**1320.2** 100

BKA 2.5/1 BU

**1320.5** 100

② ⑤

IEC UL cUL

400 300 300

24 20 20

2.5 | 22-12

6 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4 - 0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

- | -

Page Qty.

EH 2 BG

**2136.2** 274 50

EH 15 BG

**2945.2** 275 50

EH 2/Z BG

**2147.2** 274 50

AQI 2/5/11 YE

**2032.0** 292 50

AQI 3/5/11 YE

**2033.0** 292 50

AQI 4/5/11 YE

**2044.0** 292 50

AQI 10/5/11 YE

**2045.0** 292 10

SDB 0.5x3

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

### Without labelling

Length Hole

Type Cat. no. mm clear. Qty.

BKA 2.5/2 **1321.2** 24.5 17.4 50

BKA 2.5/3 **1322.2** 29.6 22.5 50

BKA 2.5/4 **1323.2** 34.6 27.5 50

BKA 2.5/5 **1324.2** 39.8 32.7 50

BKA 2.5/6 **1325.2** 44.9 37.8 50

BKA 2.5/8 **1326.2** 55.1 48.0 20

BKA 2.5/10 **1327.2** 65.3 58.2 20

BKA 2.5/12 **1328.2** 75.4 68.3 20

BKA 2.5/13 **1329.2** 80.6 73.5 20

BKA 2.5/14 **1330.2** 85.7 78.6 20

BKA 2.5/15 **1331.2** 90.9 83.8 20

BKA 2.5/16 **1332.2** 95.8 88.7 20

BKA 2.5/18 **1333.2** 106.2 99.1 20

BKA 2.5/20 **1334.2** 116.2 108.1 10

BKA 2.5/24 **1335.2** 136.7 129.6 10

### With one-sided label

Length Hole

Type Cat. no. mm clear. Qty.

BKA 2.5/2 **1336.2** 24.5 17.4 50

BKA 2.5/3 **1337.2** 29.6 22.5 50

BKA 2.5/4 **1338.2** 34.6 27.5 50

BKA 2.5/5 **1339.2** 39.8 32.7 50

BKA 2.5/6 **1340.2** 44.9 37.8 50

BKA 2.5/8 **1341.2** 55.1 48.0 20

BKA 2.5/10 **1342.2** 65.3 58.2 20

BKA 2.5/12 **1343.2** 75.4 68.3 20

BKA 2.5/13 **1344.2** 80.6 73.5 20

BKA 2.5/14 **1345.2** 85.7 78.6 20

BKA 2.5/15 **1346.2** 90.9 83.8 20

BKA 2.5/16 **1347.2** 95.8 88.7 20

BKA 2.5/18 **1348.2** 106.2 99.1 20

BKA 2.5/20 **1349.2** 116.2 108.1 10

BKA 2.5/24 **1350.2** 136.7 129.6 10

### With labelling on both sides

Length Hole

Type Cat. no. mm clear. Qty.

BKA 2.5/2 **1351.2** 24.5 17.4 50

BKA 2.5/3 **1352.2** 29.6 22.5 50

BKA 2.5/4 **1353.2** 34.6 27.5 50

BKA 2.5/5 **1354.2** 39.8 32.7 50

BKA 2.5/6 **1355.2** 44.9 37.8 50

BKA 2.5/8 **1356.2** 55.1 48.0 20

BKA 2.5/10 **1357.2** 65.3 58.2 20

BKA 2.5/12 **1358.2** 75.4 68.3 20

BKA 2.5/13 **1359.2** 80.6 73.5 20

BKA 2.5/14 **1360.2** 85.7 78.6 20

BKA 2.5/15 **1361.2** 90.9 83.8 20

BKA 2.5/16 **1362.2** 95.8 88.7 20

BKA 2.5/18 **1363.2** 106.2 99.1 20

BKA 2.5/20 **1364.2** 116.2 108.1 10

BKA 2.5/24 **1365.2** 136.7 129.6 10

**BAKA 4**



M 3 




Feed-through terminal  
2 connections

Direct mounting

**BAKA 10**



M 3 




Feed-through terminal  
2 connections

Direct mounting

Screw connection	
22 x 6 x 23	
Type	Qty.
BKA 4/1 BG	100
<b>2158.2</b>	
BKA 4/1 BU	100
<b>2158.5</b>	

Without labelling				
Length Hole				
Type	Cat. no.	mm	clear.	Qty.
BKA 4/2	<b>2170.2</b>	26.5	19.4	50
BKA 4/3	<b>2171.2</b>	32.6	25.5	50
BKA 4/4	<b>2172.2</b>	38.6	31.5	50
BKA 4/5	<b>2173.2</b>	44.8	37.7	50
BKA 4/6	<b>2174.2</b>	50.9	43.8	50
BKA 4/8	<b>2175.2</b>	63.1	56.0	20
BKA 4/10	<b>2176.2</b>	75.3	68.2	20
BKA 4/12	<b>2177.2</b>	87.4	80.3	20
BKA 4/13	<b>2137.2</b>	93.6	86.5	20
BKA 4/14	<b>1036.2</b>	99.7	92.6	20
BKA 4/15	<b>2178.2</b>	105.9	98.8	20
BKA 4/16	<b>1037.2</b>	111.8	104.7	20
BKA 4/18	<b>1038.2</b>	124.2	117.1	20
BKA 4/20	<b>2179.2</b>	136.2	129.1	10
BKA 4/24	<b>1039.2</b>	160.7	153.6	10

Screw connection	
30 x 8 x 31	
Type	Qty.
BKA 10/1 BG	100
<b>1497.2</b>	
BKA 10/1 BU	100
<b>1497.5</b>	

Without labelling				
Length Hole				
Type	Cat. no.	mm	clear.	Qty.
BKA 10/2	<b>1500.2</b>	32.2	24.2	50
BKA 10/3	<b>1501.2</b>	40.3	32.3	20
BKA 10/4	<b>1502.2</b>	48.4	40.4	20
BKA 10/5	<b>1503.2</b>	56.5	48.5	20
BKA 10/6	<b>1504.2</b>	64.6	56.6	20
BKA 10/7	<b>1505.2</b>	72.7	64.7	20
BKA 10/8	<b>1506.2</b>	80.8	72.8	10
BKA 10/9	<b>1507.2</b>	88.9	80.9	10
BKA 10/10	<b>1508.2</b>	97.0	89.0	10
BKA 10/11	<b>1509.2</b>	105.1	97.1	10
BKA 10/12	<b>1510.2</b>	113.2	105.2	10

IEC	UL	CSA
400	300	300
32	30	25
4   22-12		
6   3		
A3   V2		

With one-sided label				
Length Hole				
Type	Cat. no.	mm	clear.	Qty.
BKA 4/2	<b>2308.2</b>	26.5	19.4	50
BKA 4/3	<b>2309.2</b>	32.6	25.5	50
BKA 4/4	<b>2330.2</b>	38.6	31.5	50
BKA 4/5	<b>2331.2</b>	44.8	37.7	50
BKA 4/6	<b>2332.2</b>	50.9	43.8	50
BKA 4/8	<b>2333.2</b>	63.1	56.0	20
BKA 4/10	<b>2334.2</b>	75.3	68.2	20
BKA 4/12	<b>2335.2</b>	87.4	80.3	20
BKA 4/13	<b>2336.2</b>	93.6	86.5	20
BKA 4/14	<b>2337.2</b>	99.7	92.6	20
BKA 4/15	<b>2338.2</b>	105.9	98.8	20
BKA 4/16	<b>2339.2</b>	111.8	104.7	20
BKA 4/18	<b>2340.2</b>	124.2	117.1	20
BKA 4/20	<b>2341.2</b>	136.2	129.1	10
BKA 4/24	<b>2342.2</b>	160.7	153.6	10

IEC	CSAus	CSA
400	300	300
57	57	57
10   22-8		
6   3		
A3   V2		

0.2-4   -
0.2-4   0.2-4
0.2-4
9
0.5-1.0   Slotted M 3
-
PA 6.6   -40 to +105°C
-   -

Length Hole				
Type	Cat. no.	mm	clear.	Qty.
BKA 4/2	<b>2343.2</b>	26.5	19.4	50
BKA 4/3	<b>2344.2</b>	32.6	25.5	50
BKA 4/4	<b>2345.2</b>	38.6	31.5	50
BKA 4/5	<b>2346.2</b>	44.8	37.7	50
BKA 4/6	<b>2347.2</b>	50.9	43.8	50
BKA 4/8	<b>2348.2</b>	63.1	56.0	20
BKA 4/10	<b>2349.2</b>	75.3	68.2	20
BKA 4/12	<b>2350.2</b>	87.4	80.3	20
BKA 4/13	<b>2351.2</b>	93.6	86.5	20
BKA 4/14	<b>2352.2</b>	99.7	92.6	20
BKA 4/15	<b>2353.2</b>	105.9	98.8	20
BKA 4/16	<b>2354.2</b>	111.8	104.7	20
BKA 4/18	<b>2355.2</b>	124.2	117.1	20
BKA 4/20	<b>2356.2</b>	136.2	129.1	10
BKA 4/24	<b>2357.2</b>	160.7	153.6	10

0.2-10   -
0.2-10   0.2-10
0.2-4
10
0.5-1.0   Slotted M 3
-
PA 6.6   -40 to +105°C
-   -

	Page	Qty.
EH 2 BG	274	50
<b>2136.2</b>		
EH 15 BG	275	50
<b>2945.2</b>		
EH 2/Z BG	274	50
<b>2147.2</b>		

	Page	Qty.
AQI 2/6/11 YE	292	50
<b>2125.0</b>		

	Page	Qty.
EH 3 BG	275	20
<b>2939.2</b>		
EH 35 BG	275	50
<b>2946.2</b>		
AQI 2/8/11 YE	293	50
<b>2067.0</b>		

AQI 3/6/11 YE	292	50
<b>2126.0</b>		

BKA 4/2	<b>2343.2</b>	26.5	19.4	50
BKA 4/3	<b>2344.2</b>	32.6	25.5	50
BKA 4/4	<b>2345.2</b>	38.6	31.5	50
BKA 4/5	<b>2346.2</b>	44.8	37.7	50
BKA 4/6	<b>2347.2</b>	50.9	43.8	50
BKA 4/8	<b>2348.2</b>	63.1	56.0	20
BKA 4/10	<b>2349.2</b>	75.3	68.2	20
BKA 4/12	<b>2350.2</b>	87.4	80.3	20
BKA 4/13	<b>2351.2</b>	93.6	86.5	20
BKA 4/14	<b>2352.2</b>	99.7	92.6	20
BKA 4/15	<b>2353.2</b>	105.9	98.8	20
BKA 4/16	<b>2354.2</b>	111.8	104.7	20
BKA 4/18	<b>2355.2</b>	124.2	117.1	20
BKA 4/20	<b>2356.2</b>	136.2	129.1	10
BKA 4/24	<b>2357.2</b>	160.7	153.6	10

AQI 3/8/11 YE	293	50
<b>2068.0</b>		

AQI 4/6/11 YE	292	50
<b>2140.0</b>		

AQI 4/8/11 YE	293	50
<b>2069.0</b>		

AQI 10/6/11 YE	292	10
<b>2141.0</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		
PMC SD 6/50 WH	340	500
<b>4702.7</b>		

SDB 0.8x4.0	422	1
<b>1087.0</b>		
PMC SB 8/40 WH	342	400
<b>9323.7</b>		

## Feed-through terminals for direct mounting KBL | RK

### Screw connection system

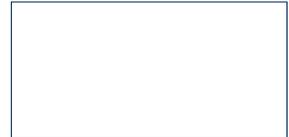
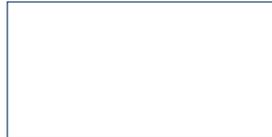
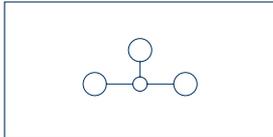


- Direct assembly
- Housing made from polyamide 6.6 UL 94-V2

### KBL 2.5-D



### Connection diagram



Feed-through terminal  
2 connections

Direct mounting

### Connection type

Dimensions (L x W x H), directly installed, mm

### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type 10 poles, block, colour

Cat. no.

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End support EH / direct installation

Cat. no.

Cross-connector Q / Insulated cross-connector QI, 2 poles

Cat. no.

External insulated cross-connection AQI

Cat. no.

Cross-connector Q / Insulated cross-connector QI, 3 poles

Cat. no.

External insulated cross-connection AQI

Cat. no.

Cross-connector Q / Insulated cross-connector QI, 4 poles

Cat. no.

External insulated cross-connection AQI

Cat. no.

Inlay profile EP

Cat. no.

Measurement pick-off terminal MAG

Cat. no.

Individual covers AD

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

### Screw connection

48 x 5 x 36.5

### Qty.

KBL 2.5-D BG

**1387.2**

100

KBL 2.5-D BU

**1387.5**

100

KBL 2.5/10-D BG

**1384.2**

10

② ⑤

### IEC

300

### UL

300

### cUL

300

20

20

20

2.5 | 22-14

6 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4 - 0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

1 | 1

### Page Qty.

EH 4 BG

**2180.2**

275

50

Q 2

**2567.0**

288

50

AQI 2/5/15 YE

**2023.0**

292

50

Q 3

**2568.0**

288

50

AQI 3/5/15 YE

**2024.0**

292

50

Q 4

**2569.0**

288

20

AQI 4/5/15 YE

**2028.0**

292

50

Q 10

**2570.0**

288

10

AQI 10/5/15 YE

**2029.0**

292

10

AD 1/5/B YE

**2952.0**

310

1

SDB 0.5x3.0

**1085.0**

422

1

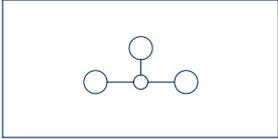
PMC SB 5/50 WH

**4600.7**

339

500

**KBL 2.5-4-D**



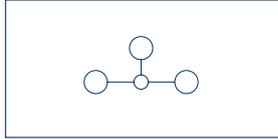
Feed-through terminal  
2 connections

**Direct mounting**



Direct mounting

**KBL 6-10-D**



Feed-through terminal  
2 connections

**Direct mounting**



Direct mounting

**Screw connection**  
48 x 6 x 36.5

	Qty.
KBL 2.5-4-D BG	
<b>1388.2</b>	100
KBL 2.5-4-D BU	
<b>1388.5</b>	100

KBL 2.5-4/10-D BG	
<b>1385.2</b>	10

② ⑤

IEC	CSAus	CSA
700	600	600
32	32	32

4 | 22-10  
6 | 3  
A4 | V2

0.2-6 | -  
0.2-6 | 0.2-4  
0.2-6

12  
0.5-1.0 | Slotted M 3

PA 6.6 | -40 to +105°C  
1 | 1

	Page	Qty.
EH 4 BG		
<b>2180.2</b>	275	50
QI 2 YE		
<b>2740.2</b>	289	50
AQI 4/6/11 YE		
<b>2064.0</b>	293	50
QI 3 YE		
<b>2741.2</b>	289	50
AQI 3/6/17 YE		
<b>2065.0</b>	293	50
QI 4 YE		
<b>2742.2</b>	289	20
AQI 4/6/17 YE		
<b>2066.0</b>	293	50
QI 10 YE		
<b>2743.2</b>	289	10
AQI 10/6/17 YE		
<b>2143.0</b>	293	10

		50
AD 1/6/B YE		
<b>2953.0</b>	310	1

SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

**Screw connection**  
48 x 8 x 36.5

	Qty.
KBL 6-10-D BG	
<b>1389.2</b>	100
KBL 6-10-D BU	
<b>1389.5</b>	100

KBL 6-10/10-D BG	
<b>1386.2</b>	10

② ⑤

IEC	CSAus	CSA
300	600	600
55	65	65

10 | 22-8  
6 | 3  
A5 | V2

0.2-10 | -  
0.2-10 | 0.2-10  
0.2-10

12  
1.2-2.0 | Slotted M 4

PA 6.6 | -40 to +105°C  
1 | 1

	Page	Qty.
EH 4 BG		
<b>2180.2</b>	275	50
QI 2 YE		
<b>2750.2</b>	289	50
AQI 2/8/11 YE		
<b>2067.0</b>	293	50
QI 3 YE		
<b>2751.2</b>	289	50
AQI 3/8/11 YE		
<b>2068.0</b>	293	50
QI 4 YE		
<b>2752.2</b>	289	20
AQI 4/8/11 YE		
<b>2069.0</b>	293	50
QI 10 YE		
<b>2753.2</b>	289	10

		50
AD 1/8 B YE		
<b>2954.0</b>	311	1

SDB 0.8x4.0		
<b>1087.0</b>	422	1
PMC SB 8/40 WH		
<b>9323.7</b>	342	400

## Feed-through terminals for direct mounting RK...-D

### Measurement pick-off terminals MAG



#### Feed-through terminals for direct mounting RK...-D

The **RK 50-D**, **RK 95-D**, **RK 150-D** and **RK 240-D** terminal blocks are connection elements for direct no-rail mounting with an external screw attachment. The terminal blocks consist of a double-layer insulation housing. The specialized construction of the clamping yoke minimizes the contact resistance between the wire and the busbar. The clamp is tightened using a hex-socket screw which creates the required torque together with the clamping yoke. Pegs are located on the plastic housings of the terminal blocks; these lock to adjacent terminals to increase the mechanical stability. A threaded **M 2.5** bolt can be attached to the injection-moulded pegs in order to further increase the mechanical stability. A diverse line of accessories offers a practical supplement to these products.

#### MAG measurement pick-off terminals.

The **MAG** measurement pick-off terminals allow you to tap into the voltage on the **RK 50-D**, **RK 95-D**, **RK 150-D** and **RK 240-D** terminal blocks when using wires with small cross-sections ranging from 0.2 to 10 mm<sup>2</sup>. A special socket slot in the **RK 50-D** to **RK 240-D** terminal blocks enables the **MAG** supplemental connections to be added retroactively. They can be independently snapped on to the base housing of the terminal blocks. **MAG** terminals are individually snapped into the housing of the main terminal above the wire entry. The electrical contact is then established using the connection screw on the main-wire terminal of the busbar. This technical solution is safe, clever, and simplifies the wiring significantly. The rated voltage is 1000 V because of the total insulation provided by the pick-off terminal. The **PMC** quick marking system can be used for labelling the terminals.



#### Screw connection system



- Direct assembly
- Housing made from polyamide 6.6 UL 94-V2

#### Connection diagram

#### Connection type

Dimensions (L x W x H), directly installed, mm

#### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type 10 poles, block, colour

Cat. no.

Colours available

#### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

#### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Banded wire up to, mm

#### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

#### Accessories

End support EH / direct installation

Cat. no.

Cross-connector Q / Insulated cross-connector QI, 2 poles

Cat. no.

External insulated cross-connection AQI

Cat. no.

Inlay profile EP

Cat. no.

Measurement pick-off terminal MAG

Cat. no.

Individual covers AD

Cat. no.

Allen key socket wrench ISKS

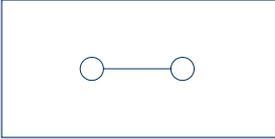
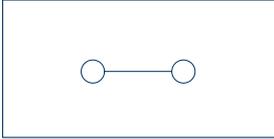
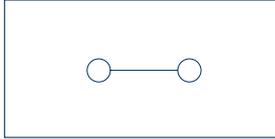
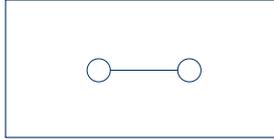
Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

RK 50-D	RK 95-D	RK 150-D	RK 240-D	MAG...
 M 6	 M 8	 M 10	 M 10	 M 4
				
Feed-through terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Pick-off terminal 1 connection
<b>Screw connection</b> 109 x 20 x 65.75	<b>Screw connection</b> 109 x 25 x 77.5	<b>Screw connection</b> 109 x 31 x 99	<b>Screw connection</b> 109 x 36 x 112.8	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
RK 50-D BG <b>1582.2</b> 10	RK 95-D BG <b>1583.2</b> 10	RK 150-D BG <b>1584.2</b> 5	RK 240-D BG <b>1585.2</b> 5	MAG 50 BG <b>1121.2</b> 10
RK 50-D BU <b>1582.5</b> 10	RK 95-D BU <b>1583.5</b> 10	RK 150-D BU <b>1584.5</b> 5	RK 240-D BU <b>1585.5</b> 5	MAG 95 BG <b>1123.2</b> 10
				MAG 150/240 BG <b>1125.2</b> 10
<b>② ⑤</b>	<b>② ⑤</b>	<b>② ⑤</b>	<b>② ⑤</b>	
<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC</b>
1000 600 600	1000 600 600	1000 600 600	1000 600 600	1000
150 150 150	232 230 230	309 275 275	380 370 370	57
50   1/0-6	95   4/0-2	150   300-2	240   500-2/0	10   22-8
8   3	8   3	8   3	8   3	6   3
B10   V2	B12   V2	B14   V2	B16   V2	A5   V2
16-50   25-50	25-95   35-95	35-150   50-150	70-240   70-240	0.2-10   0.2-10
25-50   25-50	35-95   35-95	50-150   50-150	70-240   70-185	0.2-10   0.2-10
16-50	25-95	35-150	70-240	0.2-10
27	30	38	37	12
3-6   Hexagon socket M6	6-12   Hexagon socket M8	10-20   Hexagon socket M10	10-20   Hexagon socket M10	1.2-2.0   Slotted M4
11.8 x 5	16 x 6	20 x 8	20 x 12	
PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C
-   -	-   -	-   -	-   -	-   -
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
AQI 2/50 YE <b>2763.2</b> 293 5	AQI 2/95 YE <b>2765.2</b> 294 5	AQI 2/150 YE <b>2767.2</b> 294 5	AQI 2/240 YE <b>2769.2</b> 294 5	
AQI 3/50 YE <b>2764.2</b> 293 5	AQI 3/95 YE <b>2766.2</b> 294 5	AQI 3/150 YE <b>2768.2</b> 294 5	AQI 3/240 YE <b>2770.2</b> 294 5	
EP 50 <b>2274.0</b> 41 10	EP 95 <b>2275.0</b> 41 10	EP 150 <b>2277.0</b> 41 10	EP 240 <b>2360.0</b> 41 10	
				20
MAG 50 BG <b>1121.2</b> 41 10	MAG 95 BG <b>1123.2</b> 41 10	MAG 150/240 BG <b>1125.2</b> 41 10	MAG 150/240 BG <b>1125.2</b> 41 10	
AD 1/50/B YE <b>2810.0</b> 311 20	AD 1/95/B YE <b>2804.0</b> 311 20	AD 1/150/B YE <b>2806.0</b> 311 20	AD 1/240/B YE <b>2808.0</b> 311 20	
ISKS 5 <b>2818.0</b> 422 1	ISKS 6 <b>2772.0</b> 422 1	ISKS 8 <b>2773.0</b> 422 1	ISKS 8 <b>2773.0</b> 422 1	
PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	SDB 0.8x4.0 <b>1087.0</b> 422 1
				PMC SB 6/50 WH <b>4702.7</b> 340 500

## Pluggable connection system PK-TS



The pluggable **PK-TS** connection system was designed to meet the increasing demands for modularity and flexibility within the fields of electrical cabinet and facility construction.

The system allows you to easily integrate separately wired switchboard panels into the complete installation. The wiring which connects the two switchboard panels is fed out of one panel with the **PK-TS** base element. In the second panel, the corresponding cables are attached to the **PKB/PBT** mate.

The **PK-TS** base element is attached to the DIN rail using mounting feet which are fitted either with a **TS15/35** or **TS32/35** combi-foot for mounting on a **TS15**, **TS32** or **TS35** DIN rail.

After setting up the switchgear cabinets, both panels can be connected quite easily.

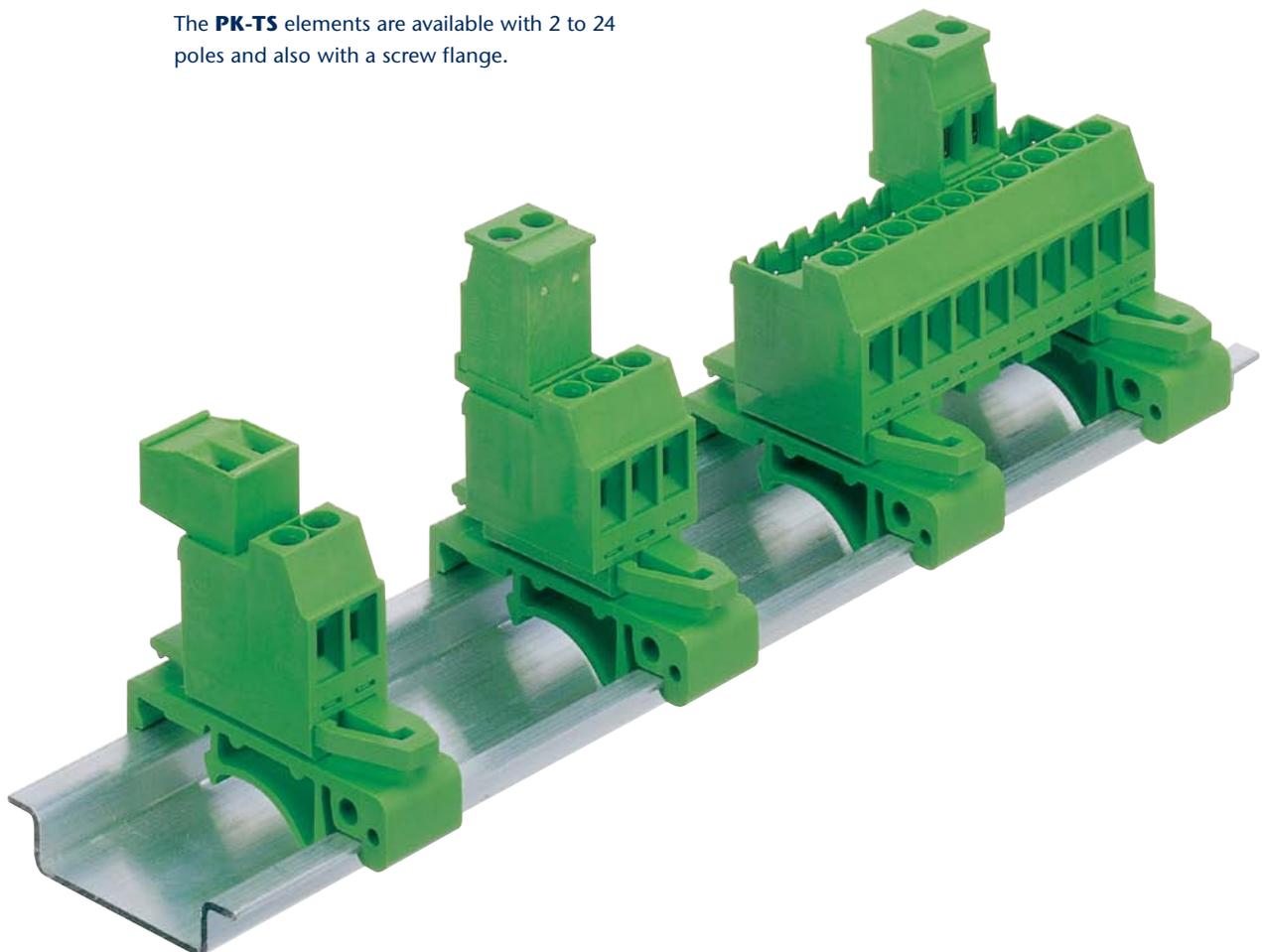
You can determine the type of connection mechanism (clamping yoke or cam) when you select the pluggable **PKB/PBT** component of the connection.

The **PK-TS** elements are available with 2 to 24 poles and also with a screw flange.

The **PK-TS** base elements with a screw flange use this flange to connect to the pluggable component. This protects them from accidental loosening.

The connection can be made in a variety of directions (as shown on right), depending on the combination selected (**PK-TS** and **PKB/PBT**).

In order to avoid a plugging error when using multiple **PK-TS**s in one switchgear panel, both the **PK-TS** and the **PKB/PBT** can be coded without pole loss using the established **CONTA-CON** coding system (refer to the **CONTA-CON** Catalogue).



## Pluggable connection system PK-TS

### Connection examples

#### PK-TS combined with PKB 950

- . Wire entry **PK-TS**:  
horizontally from the right
- . Wire entry **PKB 950**:  
vertically from above



#### PK-TS combined with PKB 1100

- . Wire entry **PK-TS**:  
horizontally from the right
- . Wire entry **PKB 1100**:  
horizontally from the left



#### PK-TS combined with PKB 1110

- . Wire entry **PK-TS**:  
horizontally from the right
- . Wire entry **PKB 1110**:  
horizontally from the right



#### PK-TS combined with PBT 1200

- . Wire entry **PK-TS**:  
horizontally from the right
- . Wire entry **PBT 1200**:  
vertically from above, screw connection  
also vertically from above.



## Pluggable connection system PK-TS

### Screw connection system



- Foot can be snapped on TS 15, TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

### PK-TS/.../5.08/15



### PK-TS/.../5.08



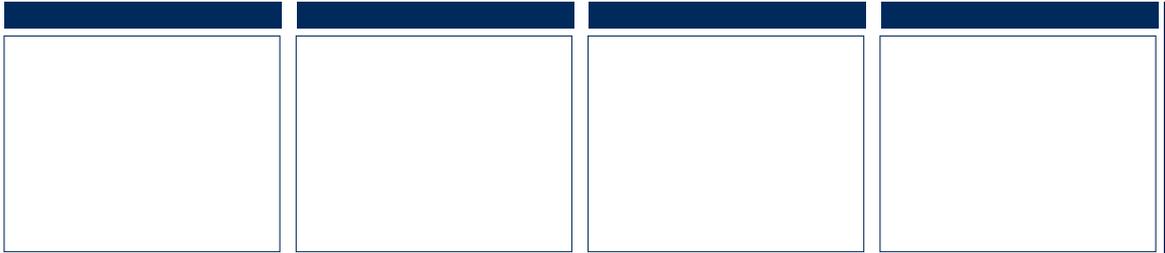
### PK-TS/.../5.08-F/15



Connection type	Screw connection Qty.	Screw connection Qty.	Screw connection Qty.	
Type/colour	PK-TS/2/5.08/15 GN	PK-TS/2/5.08 GN	PK-TS/2/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13175.1</b>	<b>12319.1</b>	<b>13825.1</b>	
Type/colour	PK-TS/3/5.08/15 GN	PK-TS/3/5.08 GN	PK-TS/3/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13176.1</b>	<b>12320.1</b>	<b>13826.1</b>	
Type colour	PK-TS/4/5.08/15 GN	PK-TS/4/5.08 GN	PK-TS/4/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13177.1</b>	<b>12321.1</b>	<b>13827.1</b>	
Type colour	PK-TS/5/5.08/15 GN	PK-TS/5/5.08 GN	PK-TS/5/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13178.1</b>	<b>12322.1</b>	<b>13828.1</b>	
Type colour	PK-TS/6/5.08/15 GN	PK-TS/6/5.08 GN	PK-TS/6/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13179.1</b>	<b>12323.1</b>	<b>13829.1</b>	
Type colour	PK-TS/7/5.08/15 GN	PK-TS/7/5.08 GN	PK-TS/7/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13180.1</b>	<b>12324.1</b>	<b>13830.1</b>	
Type colour	PK-TS/8/5.08/15 GN	PK-TS/8/5.08 GN	PK-TS/8/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13181.1</b>	<b>12325.1</b>	<b>13831.1</b>	
Type colour	PK-TS/9/5.08/15 GN	PK-TS/9/5.08 GN	PK-TS/9/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13182.1</b>	<b>12326.1</b>	<b>13832.1</b>	
Type colour	PK-TS/10/5.08/15 GN	PK-TS/10/5.08 GN	PK-TS/10/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13183.1</b>	<b>12327.1</b>	<b>13833.1</b>	
Type colour	PK-TS/11/5.08/15 GN	PK-TS/11/5.08 GN	PK-TS/11/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13184.1</b>	<b>12328.1</b>	<b>13834.1</b>	
Type colour	PK-TS/12/5.08/15 GN	PK-TS/12/5.08 GN	PK-TS/12/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13185.1</b>	<b>12329.1</b>	<b>13835.1</b>	
Type colour	PK-TS/13/5.08/15 GN	PK-TS/13/5.08 GN	PK-TS/13/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13186.1</b>	<b>12330.1</b>	<b>13836.1</b>	
Type colour	PK-TS/14/5.08/15 GN	PK-TS/14/5.08 GN	PK-TS/14/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13187.1</b>	<b>12331.1</b>	<b>13837.1</b>	
Type colour	PK-TS/15 GN/5.08/15 GN	PK-TS/15/5.08 GN	PK-TS/15 GN/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13188.1</b>	<b>12332.1</b>	<b>13838.1</b>	
Type colour	PK-TS/16/5.08/15 GN	PK-TS/16/5.08 GN	PK-TS/16/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13189.1</b>	<b>12333.1</b>	<b>13839.1</b>	
Type colour	PK-TS/17/5.08/15 GN	PK-TS/17/5.08 GN	PK-TS/17/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13190.1</b>	<b>12334.1</b>	<b>13840.1</b>	
Type colour	PK-TS/18/5.08/15 GN	PK-TS/18/5.08 GN	PK-TS/18/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13191.1</b>	<b>12335.1</b>	<b>13841.1</b>	
Type colour	PK-TS/19/5.08/15 GN	PK-TS/19/5.08 GN	PK-TS/19/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13192.1</b>	<b>12336.1</b>	<b>13842.1</b>	
Type colour	PK-TS/20/5.08/15 GN	PK-TS/20/5.08 GN	PK-TS/20/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13193.1</b>	<b>12337.1</b>	<b>13843.1</b>	
Type colour	PK-TS/21/5.08/15 GN	PK-TS/21/5.08 GN	PK-TS/21/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13194.1</b>	<b>12338.1</b>	<b>13844.1</b>	
Type colour	PK-TS/22/5.08/15 GN	PK-TS/22/5.08 GN	PK-TS/22/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13195.1</b>	<b>12339.1</b>	<b>13845.1</b>	
Type colour	PK-TS/23/5.08/15 GN	PK-TS/23/5.08 GN	PK-TS/23/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13196.1</b>	<b>12340.1</b>	<b>13846.1</b>	
Type colour	PK-TS/24/5.08/15 GN	PK-TS/24/5.08 GN	PK-TS/24/5.08-F/15 GN	
<b>Cat. no.</b>	<b>13197.1</b>	<b>12341.1</b>	<b>13847.1</b>	
Colours available	<b>1</b>	<b>1</b>	<b>1</b>	
<b>Ratings</b>	<b>IEC</b>	<b>UL</b>	<b>CUL</b>	
Rated voltage, V	250	300	300	
Rated current, A	12	15	15	
Rated wire cross-section mm <sup>2</sup> /AWG	2.5   28-12		2.5   28-12	
Rated impulse voltage, kV   Contamination degree	4   3		4   3	
Plug gauge acc. to EN 60 947-1/Flammability class UL94	A3   V0		A3   V0	
<b>Connection data</b>	0.2-2.5   -		0.2-2.5   -	
Single wire (solid) / Stranded mm <sup>2</sup>	0.2-2.5   0.2-2.5		0.2-2.5   0.2-2.5	
Finely stranded/finely stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2-2.5		0.2-2.5	
Contact wire range mm <sup>2</sup>	6		6	
Stripping length, mm	6		6	
<b>Accessories</b>	<b>Qty.</b>		<b>Qty.</b>	
Coding	K 2 RD		K 2 RD	
<b>Cat. no.</b>	<b>12003.9</b>	100	<b>12003.9</b>	100
labelling card BK	BK 1-12/5.08		BK 1-12/5.08	
<b>Cat. no.</b>	<b>2960.0</b>	10	<b>2960.0</b>	10
labelling card BK	BK 1-24/5.08		BK 1-24/5.08	
<b>Cat. no.</b>	<b>2961.0</b>	10	<b>2961.0</b>	10

More accessories starting on page 264.

**PK-TS/.../5.08-F**



**Screw connection Qty.**

PK-TS/2/5.08-F GN <b>13848.1</b>	50
PK-TS/3/5.08-F GN <b>13849.1</b>	50
PK-TS/4/5.08-F GN <b>13850.1</b>	50
PK-TS/5/5.08-F GN <b>13851.1</b>	50
PK-TS/6/5.08-F GN <b>13852.1</b>	50
PK-TS/7/5.08-F GN <b>13853.1</b>	50
PK-TS/8/5.08-F GN <b>13854.1</b>	50
PK-TS/9/5.08-F GN <b>13855.1</b>	50
PK-TS/10/5.08-F GN <b>13856.1</b>	50
PK-TS/11/5.08-F GN <b>13857.1</b>	25
PK-TS/12/5.08-F GN <b>13858.1</b>	25
PK-TS/13/5.08-F GN <b>13859.1</b>	25
PK-TS/14/5.08-F GN <b>13860.1</b>	25
PK-TS/15/5.08-F GN <b>13861.1</b>	25
PK-TS/16/5.08-F GN <b>13862.1</b>	25
PK-TS/17/5.08-F GN <b>13863.1</b>	25
PK-TS/18/5.08-F GN <b>13864.1</b>	25
PK-TS/19/5.08-F GN <b>13865.1</b>	25
PK-TS/20/5.08-F GN <b>13866.1</b>	25
PK-TS/21/5.08-F GN <b>13867.1</b>	25
PK-TS/22/5.08-F GN <b>13868.1</b>	25
PK-TS/23/5.08-F GN <b>13869.1</b>	25
PK-TS/24/5.08-F GN <b>13870.1</b>	25

<b>IEC</b>	<b>UL</b>	<b>CUL</b>
250	300	300
12	1515	
-	28-12	
	4   3	
	A3   V0	

0.2-2.5   -
0.2-2.5   0.2-2.5
0.2-2.5
6

<b>Qty.</b>	
K 2 RD <b>12003.9</b>	100
BK 1-12/5.08 <b>2960.0</b>	10
BK 1-24/5.08 <b>2961.0</b>	10

Pluggable connection system PK-TS

Screw connection system	PKB 950/.../5.08	PKB 950/.../5.08/F	PKB 1100/.../5.08
			
• Housing made from polyamide 6.6 UL 94-V0			

Connection type	Screw connection Qty.	Screw connection Qty.	Screw connection Qty.
Type colour	PKB 950/2/5.08 GN	PKB 950/2/5.08/F GN	PKB 1100/2/5.08 GN
<b>Cat. no.</b>	<b>11230.1</b>	<b>11277.1</b>	<b>11305.1/50</b>
Type/colour	PKB 950/3/5.08 GN	PKB 950/3/5.08/F GN	PKB 1100/3/5.08 GN
<b>Cat. no.</b>	<b>11231.1</b>	<b>11278.1</b>	<b>11306.1</b>
Type colour	PKB 950/4/5.08 GN	PKB 950/4/5.08/F GN	PKB 1100/4/5.08 GN
<b>Cat. no.</b>	<b>11232.1</b>	<b>11279.1</b>	<b>11307.1</b>
Type colour	PKB 950/5/5.08 GN	PKB 950/5/5.08/F GN	PKB 1100/5/5.08 GN
<b>Cat. no.</b>	<b>11233.1</b>	<b>11280.1</b>	<b>11308.1</b>
Type colour	PKB 950/6/5.08 GN	PKB 950/6/5.08/F GN	PKB 1100/6/5.08 GN
<b>Cat. no.</b>	<b>11234.1</b>	<b>11281.1</b>	<b>11309.1</b>
Type colour	PKB 950/7/5.08 GN	PKB 950/7/5.08/F GN	PKB 1100/7/5.08 GN
<b>Cat. no.</b>	<b>11235.1</b>	<b>11282.1</b>	<b>11310.1</b>
Type colour	PKB 950/8/5.08 GN	PKB 950/8/5.08/F GN	PKB 1100/8/5.08 GN
<b>Cat. no.</b>	<b>11236.1</b>	<b>11283.1</b>	<b>11311.1</b>
Type colour	PKB 950/9/5.08 GN	PKB 950/9/5.08/F GN	PKB 1100/9/5.08 GN
<b>Cat. no.</b>	<b>11237.1</b>	<b>11284.1</b>	<b>11312.1</b>
Type colour	PKB 950/10/5.08 GN	PKB 950/10/5.08/F GN	PKB 1100/10/5.08 GN
<b>Cat. no.</b>	<b>11238.1</b>	<b>11285.1</b>	<b>11313.1</b>
Type colour	PKB 950/11/5.08 GN	PKB 950/11/5.08/F GN	PKB 1100/11/5.08 GN
<b>Cat. no.</b>	<b>11239.1</b>	<b>13212.1</b>	<b>11314.1</b>
Type colour	PKB 950/12/5.08 GN	PKB 950/12/5.08/F GN	PKB 1100/12/5.08 GN
<b>Cat. no.</b>	<b>11240.1</b>	<b>13213.1</b>	<b>11315.1</b>
Type colour	PKB 950/13/5.08 GN	PKB 950/13/5.08/F GN	PKB 1100/13/5.08 GN
<b>Cat. no.</b>	<b>11241.1</b>	<b>13214.1</b>	<b>11316.1</b>
Type colour	PKB 950/14/5.08 GN	PKB 950/14/5.08/F GN	PKB 1100/14/5.08 GN
<b>Cat. no.</b>	<b>11242.1</b>	<b>13215.1</b>	<b>11317.1</b>
Type colour	PKB 950/15/5.08 GN	PKB 950/15/5.08/F GN	PKB 1100/15/5.08 GN
<b>Cat. no.</b>	<b>11243.1</b>	<b>13216.1</b>	<b>11318.1</b>
Type colour	PKB 950/16/5.08 GN	PKB 950/16/5.08/F GN	PKB 1100/16/5.08 GN
<b>Cat. no.</b>	<b>11244.1</b>	<b>13217.1</b>	<b>11319.1</b>
Type colour	PKB 950/17/5.08 GN	PKB 950/17/5.08/F GN	
<b>Cat. no.</b>	<b>11245.1</b>	<b>13218.1</b>	
Type colour	PKB 950/18/5.08 GN	PKB 950/18/5.08/F GN	
<b>Cat. no.</b>	<b>11246.1</b>	<b>13219.1</b>	
Type colour	PKB 950/19/5.08 GN	PKB 950/19/5.08/F GN	
<b>Cat. no.</b>	<b>11247.1</b>	<b>13220.1</b>	
Type colour	PKB 950/20/5.08 GN	PKB 950/20/5.08/F GN	
<b>Cat. no.</b>	<b>11248.1</b>	<b>13221.1</b>	
Type colour	PKB 950/21/5.08 GN	PKB 950/21/5.08/F GN	
<b>Cat. no.</b>	<b>11249.1</b>	<b>13222.1</b>	
Type colour	PKB 950/22/5.08 GN	PKB 950/22/5.08/F GN	
<b>Cat. no.</b>	<b>11250.1</b>	<b>13223.1</b>	
Type colour	PKB 950/23/5.08 GN	PKB 950/23/5.08/F GN	
<b>Cat. no.</b>	<b>11251.1</b>	<b>13707.1</b>	
Type colour	PKB 950/24/5.08 GN	PKB 950/24/5.08/F GN	
<b>Cat. no.</b>	<b>11252.1</b>	<b>13708.1</b>	

Colours available	PKB 950/.../5.08			PKB 950/.../5.08/F			PKB 1100/.../5.08		
Ratings	IEC	UL	CUL	IEC	UL	CUL	IEC	UL	CUL
Rated voltage, V	250	300	300	250	300	300	250	300	300
Rated current, A	12	15	15	12	15	15	12	15	15
Rated wire cross-section mm <sup>2</sup> /AWG	-			-			-		
Rated impulse voltage, kV   Contamination degree	4   3			4   3			4   3		
Plug gauge acc. to EN 60 947-1/Flammability class UL94	-   V0			-   V0			-   V0		
Connection data									
Single wire (solid) / Stranded mm <sup>2</sup>	0.2-2.5   -			0.2-2.5   -			0.2-2.5   -		
Flexible/Flexible (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2-2.5   -			0.2-2.5   -			0.2-2.5   -		
Contact wire range mm <sup>2</sup>	0.2-2.5			0.2-2.5			0.2-2.5		
Stripping length, mm	6			6			7		
Accessories	<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>		
Coding	K 1 RD			K 1 RD			K 1 RD		
<b>Cat. no.</b>	<b>12002.9</b>			<b>12002.9</b>			<b>12002.9</b>		
labelling card BK	BK 1-12/5.08			BK 1-12/5.08			BK 1-12/5.08		
<b>Cat. no.</b>	<b>2960.0</b>			<b>2960.0</b>			<b>2960.0</b>		
labelling card BK	BK 1-24/5.08			BK 1-24/5.08			BK 1-24/5.08		
<b>Cat. no.</b>	<b>2961.0</b>			<b>2961.0</b>			<b>2961.0</b>		

More accessories starting on page 264.

**PKB 1110/.../5.08**



**PBT 1200/.../5.08**



**Screw connection Qty.**

PKB 1110/2/5.08 GN <b>11339.1</b>	50
PKB 1110/3/5.08 GN <b>11340.1</b>	50
PKB 1110/4/5.08 GN <b>11341.1</b>	50
PKB 1110/5/5.08 GN <b>11342.1</b>	50
PKB 1110/6/5.08 GN <b>11343.1</b>	50
PKB 1110/7/5.08 GN <b>11344.1</b>	50
PKB 1110/8/5.08 GN <b>11345.1</b>	50
PKB 1110/9/5.08 GN <b>11346.1</b>	50
PKB 1110/10/5.08 GN <b>11347.1/50</b>	50
PKB 1110/11/5.08 GN <b>11348.1</b>	50
PKB 1110/12/5.08 GN <b>11349.1</b>	50
PKB 1110/13/5.08 GN <b>11350.1</b>	50
PKB 1110/14/5.08 GN <b>11351.1</b>	50
PKB 1110/15/5.08 GN <b>11352.1</b>	50
PKB 1110/16/5.08 GN <b>11353.1</b>	50

**Screw connection Qty.**

PBT 1200/2/5.08 GN <b>11354.1</b>	50
PBT 1200/3/5.08 GN <b>11355.1</b>	50
PBT 1200/4/5.08 GN <b>11356.1</b>	50
PBT 1200/5/5.08 GN <b>11357.1</b>	50
PBT 1200/6/5.08 GN <b>11358.1</b>	50
PBT 1200/7/5.08 GN <b>11359.1</b>	50
PBT 1200/8/5.08 GN <b>11360.1</b>	50
PBT 1200/9/5.08 GN <b>11361.1</b>	50
PBT 1200/10/5.08 GN <b>11362.1</b>	50
PBT 1200/11/5.08 GN <b>11363.1</b>	50
PBT 1200/12/5.08 GN <b>11364.1</b>	50
PBT 1200/13/5.08 GN <b>11365.1</b>	50
PBT 1200/14/5.08 GN <b>11366.1</b>	50
PBT 1200/15/5.08 GN <b>11367.1</b>	50
PBT 1200/16/5.08 GN <b>11368.1</b>	50
PBT 1200/17/5.08 GN <b>11369.1</b>	50
PBT 1200/18/5.08 GN <b>11370.1</b>	50
PBT 1200/19/5.08 GN <b>11371.1</b>	50
PBT 1200/20/5.08 GN <b>11372.1</b>	50
PBT 1200/21/5.08 GN <b>11373.1</b>	50
PBT 1200/22/5.08 GN <b>11374.1</b>	50
PBT 1200/23/5.08 GN <b>11375.1</b>	50
PBT 1200/24/5.08 GN <b>11376.1</b>	50

<b>1</b>	<b>IEC</b>	<b>UL</b>	<b>CUL</b>
	250	300	300
	12	15	15
	-   22-10		
	4   3		
	-   V0		

<b>1</b>	<b>IEC</b>	<b>UL</b>	<b>CUL</b>
	250	300	300
	12	15	15
	-   22-10		
	4   3		
	-   V0		

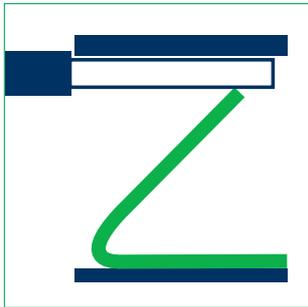
0.2-2.5   -
0.2-2.5   -
0.2-2.5
7

0.2-2.5   -
0.2-2.5   -
0.2-2.5
10

<b>Qty.</b>	
K 1 RD <b>12002.9/100</b>	100
BK 1-12/5.08 <b>2960.0/10</b>	10
BK 1-24/5.08 <b>2961.0/10</b>	10

<b>Qty.</b>	
K 1 RD <b>12002.9</b>	100
BK 1-12/5.08 <b>2960.0</b>	10
BK 1-24/5.08 <b>2961.0</b>	10

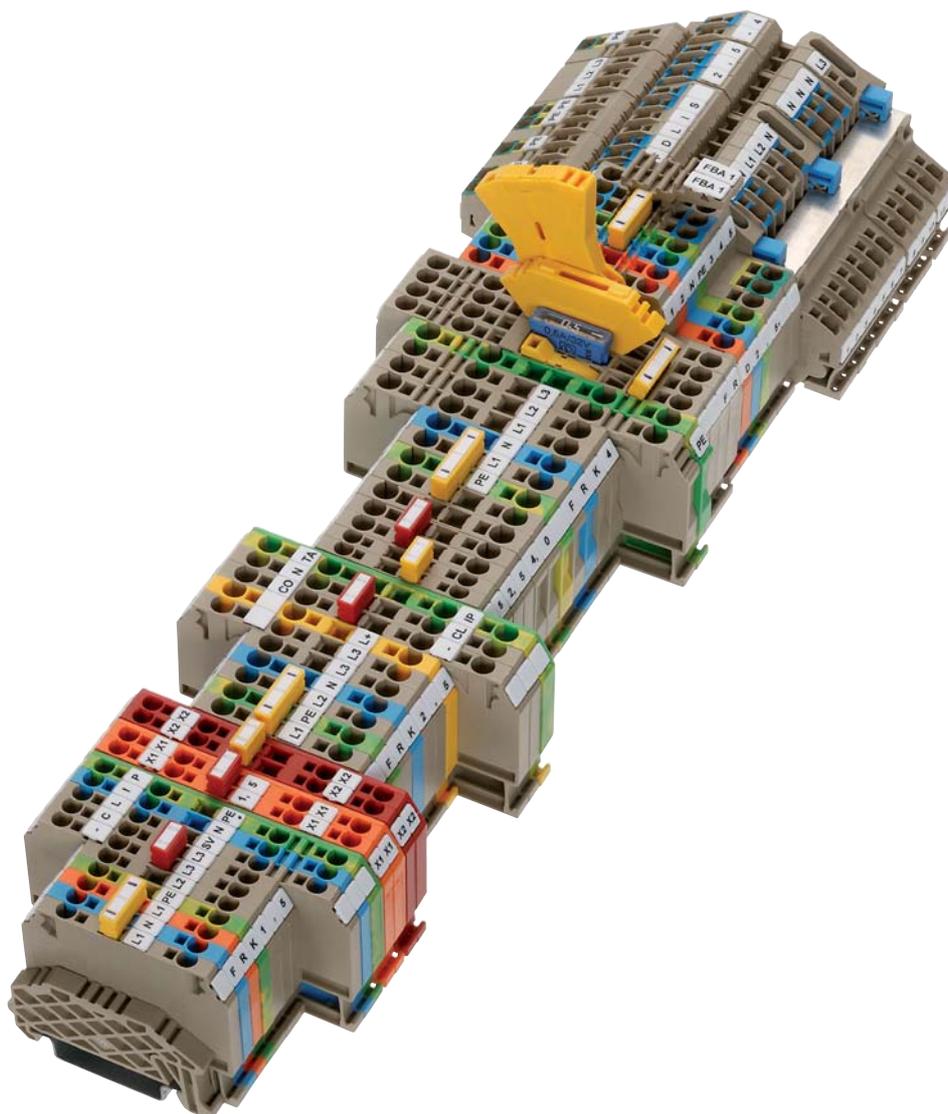
**Pressure-spring connection system FRK | FSL** *Proven – Safe – Reliable*



**CONTA-CLIP** offers an innovative line of products with the pressure-spring connection system. They range from the smallest cross-sections of 0.2 mm<sup>2</sup> up to 4 mm<sup>2</sup> in feed-through, PE, disconnect, fuse and installation terminal versions.

This system can be used for a large variety of applications with only a minimal number of accessory parts. The pressure-spring TOP mechanism provides safe and quick connections for solid and stranded wires, with or without wire-end ferrules. Our well-designed line of accessories allows you to significantly reduce your installation and storage costs. The **FQI** pluggable potential distribution system can be used to multiply potential voltages vertically. For this product line, **CONTA-CLIP** uses pollutant-free insulating material with a V0 flammability class that is self-extinguishing in accordance with UL 94.

As with all **CONTA-CLIP** PE terminals, the **FSL** terminals also implement a two-sided contact with the DIN rail. In all the **FSL** series, the foot construction and busbar are made of a single piece of copper. This solid, contiguous construction guarantees low contact resistance as well as the high security of the internal-spring PE contact foot.



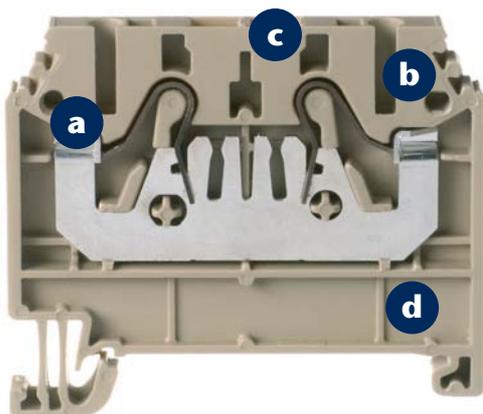
# Pressure-spring connection system FRK | FSL

## Features

### a The connection | Secure contact

The pressure spring at the wire connection is held securely by the positioned busbar.

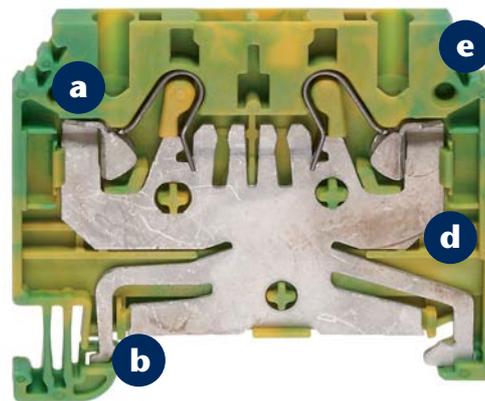
- The stainless steel spring provides permanent contact force between the wire and the busbar.
- Clear separation of electrical and mechanical functions
- The busbars are made from copper with surface coating (tin)
- One-piece construction of busbar and PE foot contact with no contact resistances
- Resistant to vibration and maintenance-free
- Corrosion-free
- Space-saving design



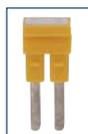
### b Wiring is simple and quick – no tools needed for the connection

The easy-to-operate pressure-spring connection mechanism – for solid and stranded wires with wire-end ferrules – reduces wiring time by up to 80%.

- Easy to work with
- Connection without tools
- Generous wire-entry geometry
- Easy to operate, even under cramped working conditions, because of the TOP connection
- Saves time and money
- PE foot contact on both sides – can be snapped on (no screws) to **TS 35x7.5** and **TS 35x15** rails.



### c Pluggable cross-connection options



Distributing potentials with the pluggable **SQI** cross-connection system is quick and easy. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 1.5 mm<sup>2</sup>, 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>.

- Available with from 2 to 10 poles
- Simple to insert and thus quicker to install
- No insulation plate or partition plate is required between a neighbouring cross-connection, since the **FQI** has a touch-safe protective design.
- The cross-connections can carry the full rated current and rated voltage of the corresponding terminal block.
- Individual terminals can be skipped over by breaking out contact pins in the cross-connector.

### d Housing insulation material

- Polyamide PA6.6 UL 94, flamm. class V0, self-extinguishing without burning drops
- Free of hazardous materials such as halogen or phosphor
- Creepage resistance: CTI 600
- Operating temperature from -40°C to +120°C

### e Marking options

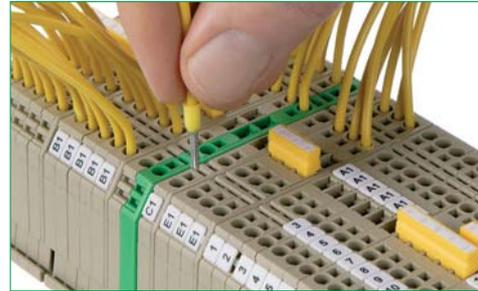
One marking option per connection. If both cross-connection channels are not being used, two additional markers can be positioned with the standard terminals of 1.5 mm<sup>2</sup> to 4 mm<sup>2</sup>.

## Pressure-spring connection system FRK | FSL

### An overview of the advantages

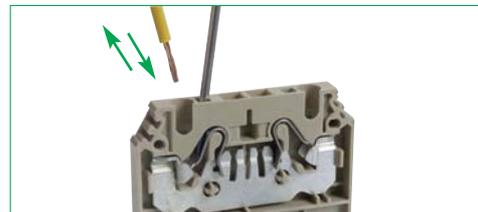
#### Connection without tools

The **FRK** direct-insert connection requires much less insertion force. This makes it easy to insert solid or stranded wires with wire-end ferrules. The rated cross-sections specified in our documentation correspond to a connection with stranded wires using wire-end ferrules. It is also possible to use solid wires up to the next larger cross-section size.



#### Releasing and separating the contact

A standard screwdriver can be used to open the pressure spring to release a wire, or to contact a stranded wire without a ferrule.



#### Cross-connection system

When using a doubled cross-connection channel, the two-pole **FQI.../2** cross-connectors can be used to connect any number of terminals with each other.



#### Distributing potentials

The cross-connector is available with from 2 to 10 poles. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 1.5 mm<sup>2</sup>, 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>.



#### Skip-over bridging

It is possible to skip over terminal blocks by breaking out individual contact poles. Separated contact elements can be labelled using the plastic insulation of the cross-connector.



#### Power feed with small cross-sections

With pressure-spring terminals of larger cross-sections, standard cross-connectors can connect to a single terminal of the next size up for the power feed-in. The **FQI** cross-connection system can carry the rated voltage and rated current.



## Pressure-spring connection system FRK | FSL

### An overview of the advantages

#### labelling

High-quality, quick and concise labelling is possible when using the **PMC SB**, **PMC BSTR** or **MC** labelling systems. The standard terminals feature up to four labelling channels.



#### Special marking options

For the multi-level terminals, in addition to the standard holder in the terminal housing you can also make clear labels – even when the terminal is wired up – by using the **FBA** identification adapter. The pluggable **FBA** is attached to the middle of the terminal housing.



#### An effective and comprehensive range

The feed-through and PE terminals with cross-sections of 1.5mm<sup>2</sup>, 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> are available in two-wire, three-wire and four-wire versions. The standard feed-through terminals in 1.5 mm<sup>2</sup>, 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> have two bridging channels. The product line also includes standard terminals and functional terminals including fused terminals, initiator terminals, disconnect terminals and installation terminals.



#### A comprehensive line of accessories

is available starting at page 264.

- DIN rails
- Mechanical attachment | end stop
- Group marker holders
- End plates | Visual separation
- Cross-connections (Potential distribution)
- Covers

Feed-through terminals FRK | Protective earth terminals FSL

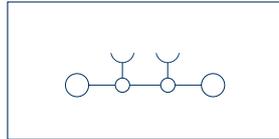
Pressure-spring connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

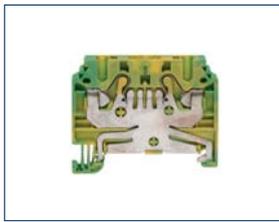
Connection diagram

FRK 1.5/2A



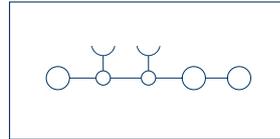
Feed-through terminal  
2 connections

FSL 1.5/2A



Protective earth terminal  
2 connections

FRK 1.5/3A



Feed-through terminal  
3 connections

Connection type

Size (L x W x H), mm with TS 35 x 7.5 mm

Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

FAP end plate

**Cat. no.**

Insulated cross-connector FQI

**Cat. no.**

Labelling adapter FBA

**Cat. no.**

Four-way cover FAD

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

Pressure-spring system

48.5 x 4.1 x 43

Qty.

FRK 1.5/2A BG

**3200.2** 100

FRK 1.5/2A BU

**3200.5** 100

FRK 1.5/2A OG

**3200.3** 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 300 300

17,5 16 16

1.5 | 24-16

8 | 3

A1 | V0

0.2-1.5 | -

0.2-1.5 | 0.2-1.5

0.2-1.5

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5-4/2A BG

**3400.2** 279 20

FQI 1.5/2 YE

**3452.8** 302 50

FQI 1.5/3 YE

**3453.8** 302 50

FQI 1.5/4 YE

**3454.8** 302 20

FQI 1.5/5 YE

**3455.8** 302 20

FQI 1.5/6 YE

**3456.8** 302 20

FQI 1.5/7 YE

**3457.8** 302 20

FQI 1.5/8 YE

**3458.8** 302 10

FQI 1.5/9 YE

**3459.8** 302 10

FQI 1.5/10 YE

**3450.8** 302 10

ES 35/2 BG

**3811.2** 275 50

SDB 0,4x2.0.0

**3164.0** 422 1

PMC SB 4/50 WH

**4820.7** 338 500

Pressure-spring system

48.5 x 4.1 x 43

Qty.

FSL 1.5/2A GNYE

**3203.2** 100

②

IEC CSAus CSA

800 300 300

17,5 16 16

1.5 | 24-16

8 | 3

A1 | V0

0.2-1.5 | -

0.2-1.5 | 0.2-1.5

0.2-1.5

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5-4/2A GN

**3400.1** 279 20

ES 35/2 BG

**3811.2** 275 50

SDB 0,4x2.0.0

**3164.0** 422 1

PMC SB 4/50 WH

**4820.7** 338 500

Pressure-spring system

59.5 x 4.1 x 43

Qty.

FRK 1.5/3A BG

**3201.2** 100

FRK 1.5/3A BU

**3201.5** 100

FRK 1.5/3A OG

**3201.3** 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 300 300

17,5 16 16

1.5 | 24-16

8 | 3

A1 | V0

0.2-1.5 | -

0.2-1.5 | 0.2-1.5

0.2-1.5

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5/3A BG

**3401.2** 279 20

FQI 1.5/2 YE

**3452.8** 302 50

FQI 1.5/3 YE

**3453.8** 302 50

FQI 1.5/4 YE

**3454.8** 302 20

FQI 1.5/5 YE

**3455.8** 302 20

FQI 1.5/6 YE

**3456.8** 302 20

FQI 1.5/7 YE

**3457.8** 302 20

FQI 1.5/8 YE

**3458.8** 302 10

FQI 1.5/9 YE

**3459.8** 302 10

FQI 1.5/10 YE

**3450.8** 302 10

ES 35/2 BG

**3811.2** 275 50

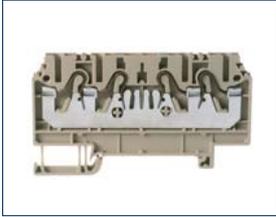
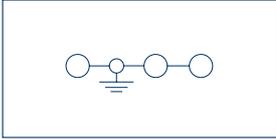
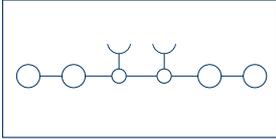
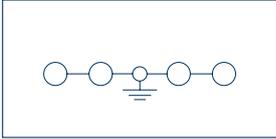
SDB 0,4x2.0.0

**3164.0** 422 1

PMC SB 4/50 WH

**4820.7** 338 500

More accessories starting on page 264.

FSL 1.5/3A			FRK 1.5/4A			FSL 1.5/4A					
											
											
Protective earth terminal 3 connections			Feed-through terminal 4 connections			Protective earth terminal 4 connections					
Pressure-spring system			Pressure-spring system			Pressure-spring system					
59.5 x 4.1 x 43			72.2 x 4.1 x 43			72.2 x 4.1 x 43					
		Qty.			Qty.			Qty.			
FSL 1.5/3A GNYE		100	FRK 1.5/4A BG		100	FSL 1.5/4A GNYE		100			
<b>3204.2</b>			<b>3202.2</b>			<b>3205.2</b>					
			FRK 1.5/4A BU		100						
			<b>3202.5</b>								
			FRK 1.5/4A OG		100						
			<b>3202.3</b>								
②	IEC	CSAus	CSA	② ⑤ ③ ① ⑧ ⑨	IEC	CSAus	CSA	②	IEC	CSAus	CSA
	1.5   24-16	8   3	A1   V0	800	17,5	16	16		1.5   24-16	8   3	A1   V0
	0.2-1.5   -	0.2-1.5   0.2-1.5	0.2-1.5		1.5   24-16	8   3	A1   V0		0.2-1.5   -	0.2-1.5   0.2-1.5	0.2-1.5
	12				12				12		
	PA 6.6   -40 to +120°C	2   -			PA 6.6   -40 to +120°C	2   -			PA 6.6   -40 to +120°C	2   -	
	Page	Qty.		Page	Qty.		Page	Qty.		Page	Qty.
FAP 1.5/3A GN	279	20	FAP 1.5/4A BG	279	20	FAP 1.5/4A GN	279	20			
<b>3401.1</b>			<b>3402.2</b>			<b>3402.1</b>					
			FQI 1.5/2 YE	302	50						
			<b>3452.8</b>								
			FQI 1.5/3 YE	302	50						
			<b>3453.8</b>								
			FQI 1.5/4 YE	302	20						
			<b>3454.8</b>								
			FQI 1.5/5 YE	302	20						
			<b>3455.8</b>								
			FQI 1.5/6 YE	302	20						
			<b>3456.8</b>								
			FQI 1.5/7 YE	302	20						
			<b>3457.8</b>								
			FQI 1.5/8 YE	302	10						
			<b>3458.8</b>								
			FQI 1.5/9 YE	302	10						
			<b>3459.8</b>								
			FQI 1.5/10 YE	302	10						
			<b>3450.8</b>								
FAD 1.5/4/B YE	314	20	FAD 1.5/4/B YE	314	20	FAD 1.5/4/B YE	314	20			
<b>3425.8</b>			<b>3425.8</b>			<b>3425.8</b>					
ES 35/2 BG	275	50	ES 35/2 BG	275	50	ES 35/2 BG	275	50			
<b>3811.2</b>			<b>3811.2</b>			<b>3811.2</b>					
SDB 0,4x2.0.0	422	1	SDB 0,4x2.0.0	422	1	SDB 0,4x2.0.0	422	1			
<b>3164.0</b>			<b>3164.0</b>			<b>3164.0</b>					
PMC SB 4/50 WH	338	500	PMC SB 4/50 WH	338	500	PMC SB 4/50 WH	338	500			
<b>4820.7</b>			<b>4820.7</b>			<b>4820.7</b>					

Feed-through terminals FRK | Protective earth terminals FSL

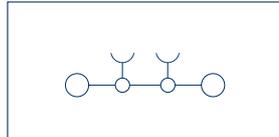
Pressure-spring connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

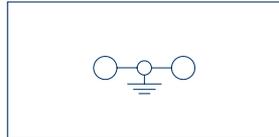
Connection diagram

FRK 2.5/2A



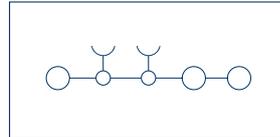
Feed-through terminal  
2 connections

FSL 2.5/2A



Protective earth terminal  
2 connections

FRK 2.5/3A



Feed-through terminal  
3 connections

Connection type

Size (L x W x H), mm with TS 35 x 7.5 mm

Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

**Cat. no.**

Insulated cross-connector FQI

**Cat. no.**

Labelling adapter FBA

**Cat. no.**

Four-way cover FAD

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

Pressure-spring system

48.5 x 5.1 x 43

Qty.

FRK 2.5/2A BG

**3210.2** 100

FRK 2.5/2A BU

**3210.5** 100

FRK 2.5/2A OG

**3210.3** 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 600 600

24 21 21

2.5 | 26-12

8 | 3

A3 | V0

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5-4/2A BG

**3400.2** 279 20

FQI 2.5/2 YE

**3462.8** 302 50

FQI 2.5/3 YE

**3463.8** 302 50

FQI 2.5/4 YE

**3464.8** 302 20

FQI 2.5/5 YE

**3465.8** 302 20

FQI 2.5/6 YE

**3466.8** 302 20

FQI 2.5/7 YE

**3467.8** 302 20

FQI 2.5/8 YE

**3468.8** 302 10

FQI 2.5/9 YE

**3469.8** 302 10

FQI 2.5/10 YE

**3460.8** 302 10

SDB 0.5x3.0

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

Pressure-spring system

48.5 x 5.1 x 43

Qty.

FSL 2.5/2A GNYE

**3213.2** 100

②

IEC CSAus CSA

800 600 600

24 21 21

2.5 | 26-12

8 | 3

A3 | V0

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5-4/2A GN

**3400.1** 279 20

SDB 0.5x3.0

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

Pressure-spring system

63.1 x 5.1 x 43

Qty.

FRK 2.5/3A BG

**3211.2** 100

FRK 2.5/3A BU

**3211.5** 100

FRK 2.5/3A OG

**3211.3** 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 600 600

24 21 21

2.5 | 26-12

8 | 3

A3 | V0

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 2.5/3A BG

**3411.2** 279 20

FQI 2.5/2 YE

**3462.8** 302 50

FQI 2.5/3 YE

**3463.8** 302 50

FQI 2.5/4 YE

**3464.8** 302 20

FQI 2.5/5 YE

**3465.8** 302 20

FQI 2.5/6 YE

**3466.8** 302 20

FQI 2.5/7 YE

**3467.8** 302 20

FQI 2.5/8 YE

**3468.8** 302 10

FQI 2.5/9 YE

**3469.8** 302 10

FQI 2.5/10 YE

**3460.8** 302 10

SDB 0.5x3.0

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500



Feed-through terminals FRK | Protective earth terminals FSL

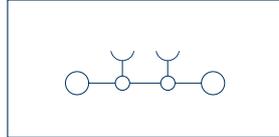
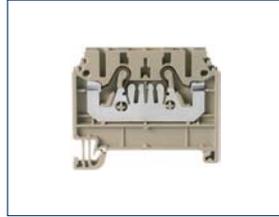
Pressure-spring connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

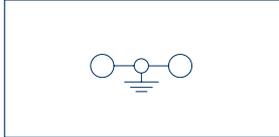
Connection diagram

FRK 4/2A



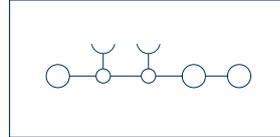
Feed-through terminal  
2 connections

FSL 4/2A



Protective earth terminal  
2 connections

FRK 4/3A



Feed-through terminal  
3 connections

Connection type

Size (L x W x H), mm with TS 35 x 7.5 mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

FAP end plate

Cat. no.

Insulated cross-connector FQI

Cat. no.

Labelling adapter FBA

Cat. no.

Four-way cover FAD

Cat. no.

End stop ZES

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

Pressure-spring system

48.5 x 6.1 x 43

Qty.

FRK 4/2A BG

3220.2 100

FRK 4/2A BU

3220.5 100

FRK 4/2A OG

3220.3 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 600 600

32 35 35

4 | 20-10

8 | 3

A4 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5-4/2A BG

3400.2 279 20

FQI 4/2 YE

3472.8 303 50

FQI 4/3 YE

3473.8 303 50

FQI 4/4 YE

3474.8 303 20

FQI 4/5 YE

3475.8 303 20

FQI 4/6 YE

3476.8 303 20

FQI 4/7 YE

3477.8 303 20

FQI 4/8 YE

3478.8 303 10

FQI 4/9 YE

3479.8 303 10

FQI 4/10 YE

3470.8 303 10

SDB 0.6x3.5

1086.0 422 1

PMC SB 6/50 WH

4702.7 340 500

Pressure-spring system

48.5 x 6.1 x 43

Qty.

FSL 4/2A GNYE

3223.2 100

②

IEC CSAus CSA

800 600 600

32 35 35

4 | 20-10

8 | 3

A4 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 1.5-4/2A GN

3400.1 279 20

Pressure-spring system

64.3 x 6.1 x 43

Qty.

FRK 4/3A BG

3221.2 100

FRK 4/3A BU

3221.5 100

FRK 4/3A OG

3221.3 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 600 600

32 35 35

4 | 20-10

8 | 3

A4 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

12

PA 6.6 | -40 to +120°C

2 | -

Page Qty.

FAP 4/3A BG

3421.2 279 20

FQI 4/2 YE

3472.8 303 50

FQI 4/3 YE

3473.8 303 50

FQI 4/4 YE

3474.8 303 20

FQI 4/5 YE

3475.8 303 20

FQI 4/6 YE

3476.8 303 20

FQI 4/7 YE

3477.8 303 20

FQI 4/8 YE

3478.8 303 10

FQI 4/9 YE

3479.8 303 10

FQI 4/10 YE

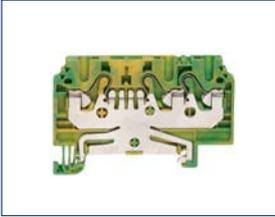
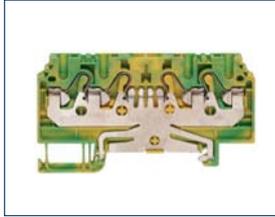
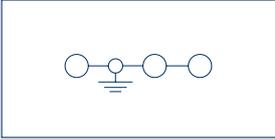
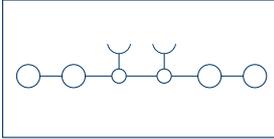
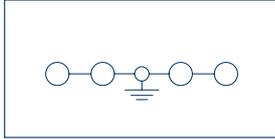
3470.8 303 10

SDB 0.6x3.5

1086.0 422 1

PMC SB 6/50 WH

4702.7 340 500

FSL 4/3A		FRK 4/4A		FSL 4/4A				
								
								
Protective earth terminal 3 connections		Feed-through terminal 4 connections		Protective earth terminal 4 connections				
Pressure-spring system		Pressure-spring system		Pressure-spring system				
64.3 x 6.1 x 43		80 x 6.1 x 43		80 x 6.1 x 43				
Qty.		Qty.		Qty.				
FSL 4/3A GNYE <b>3224.2</b>	100	FRK 4/4A BG <b>3222.2</b>	100	FSL 4/4A GNYE <b>3225.2</b>	100			
		FRK 4/4A BU <b>3222.5</b>	100					
		FRK 4/4A OG <b>3222.3</b>	100					
②	② ⑤ ③ ① ⑧ ⑨	②						
IEC	CSAus	CSA	IEC	CSAus	CSA	IEC	CSAus	CSA
			800	600	600			
			32	35	35			
4   20-10			4   20-10			4   20-10		
8   3			8   3			8   3		
A4   V0			A4   V0			A4   V0		
0.2-6   -			0.2-6   -			0.2-6   -		
0.2-6   0.2-4			0.2-6   0.2-4			0.2-6   0.2-4		
0.2-6			0.2-6			0.2-6		
12			12			12		
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C		
2   -			2   -			2   -		
Page	Qty.	Page	Qty.	Page	Qty.			
FAP 4/3A GN <b>3421.1</b>	279 20	FAP 4/4A BG <b>3422.2</b>	279 20	FAP 4/4A GN <b>3422.1</b>	279 20			
		FQI 4/2 YE <b>3472.8</b>	303 50					
		FQI 4/3 YE <b>3473.8</b>	303 50					
		FQI 4/4 YE <b>3474.8</b>	303 20					
		FQI 4/5 YE <b>3475.8</b>	303 20					
		FQI 4/6 YE <b>3476.8</b>	303 20					
		FQI 4/7 YE <b>3477.8</b>	303 20					
		FQI 4/8 YE <b>3478.8</b>	303 10					
		FQI 4/9 YE <b>3479.8</b>	303 10					
		FQI 4/10 YE <b>3470.8</b>	303 10					
FAD 4/4/B YE <b>3427.8</b>	314 20	FAD 4/4/B YE <b>3427.8</b>	314 20	FAD 4/4/B YE <b>3427.8</b>	314 20			
ZES 35/2 BG <b>3811.2</b>	275 50	ZES 35/2 BG <b>3811.2</b>	275 50	ZES 35/2 BG <b>3811.2</b>	275 50			
SDB 0.6x3.5 <b>1086.0</b>	422 1	SDB 0.6x3.5 <b>1086.0</b>	422 1	SDB 0.6x3.5 <b>1086.0</b>	422 1			
PMC SB 6/50 WH <b>4702.7</b>	340 500	PMC SB 6/50 WH <b>4702.7</b>	340 500	PMC SB 6/50 WH <b>4702.7</b>	340 500			

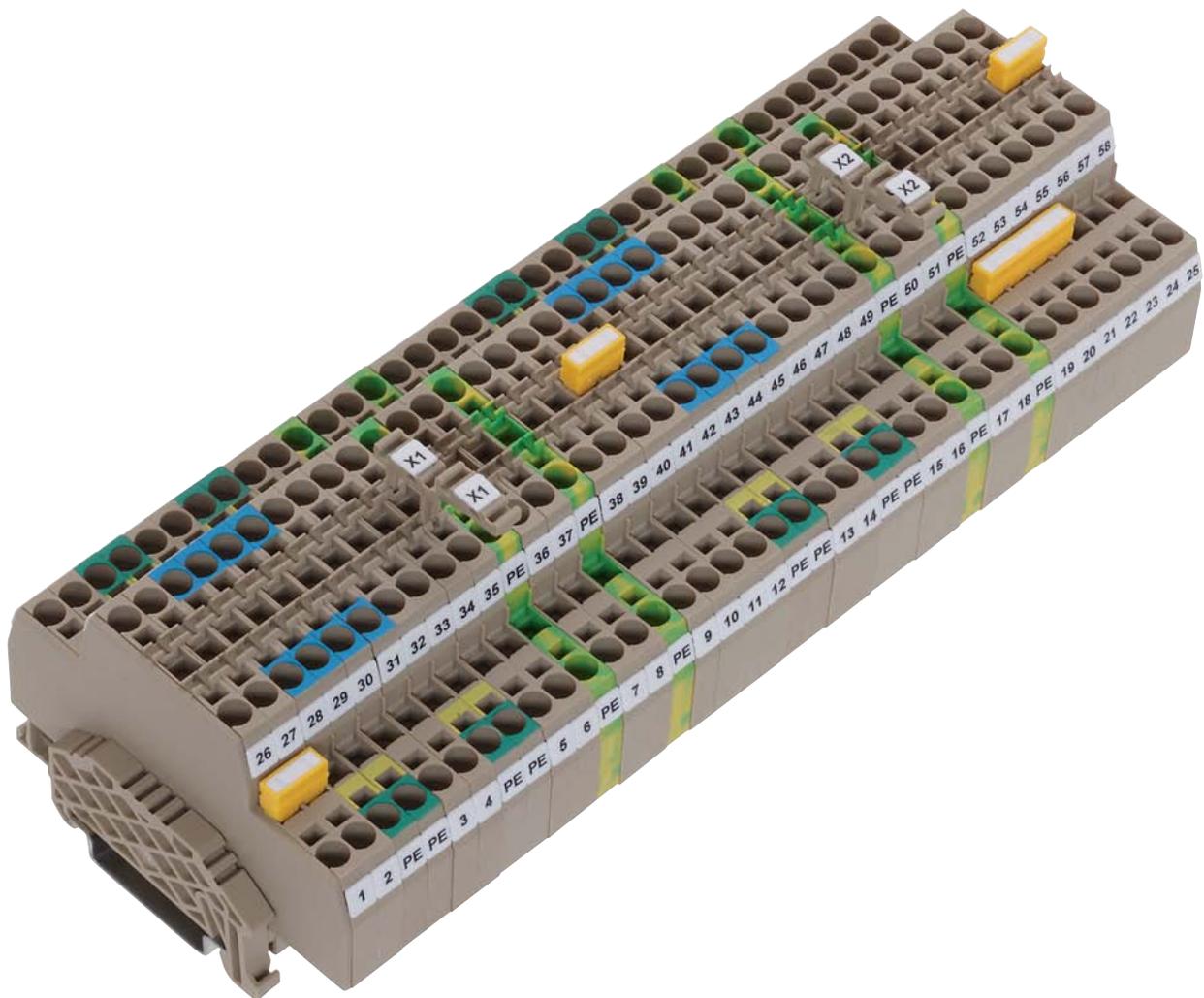
**Double-level terminal blocks FRKD 2.5 | Double-level protective earth terminal FSLD 2.5**



With a design width of just 5 mm, the new **FRKD** series, available in thirteen versions, connects with stranded or solid wires up to 4 mm<sup>2</sup> with a rated current of up to 24 A. Solid and stranded wires with wire-end ferrules can be inserted into the connection system without the need for tools. The pressure spring opens automatically when the wire is inserted facilitating a secure contact with the busbar. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules.

The PE foot from **CONTA-CLIP** that contacts the PE potential to the DIN rail is designed to contact on both sides. This optimal **CONTA-CLIP** design uses more metal but provides a higher conductor cross section and stronger rail grip, for security and safety.

In all the **FSL** series, the foot construction and busbar are made of a single piece of copper. This solid, contiguous construction guarantees low contact resistance as well as the high security of the internal-spring PE contact foot. Each of the pressure-spring terminal blocks can be equipped with the standard accessories: the **FQI 2.5** (cross connector) and the **PMC SB 5** (Pocket-Maxicard quick marking system).

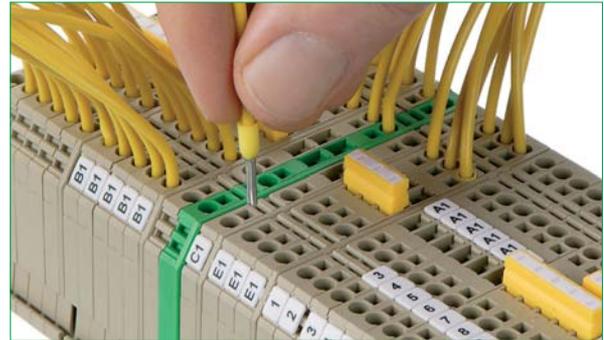


## Double-level terminal blocks FRKD 2.5 | Double-level protective earth terminal FSLD 2.5

### The features in detail

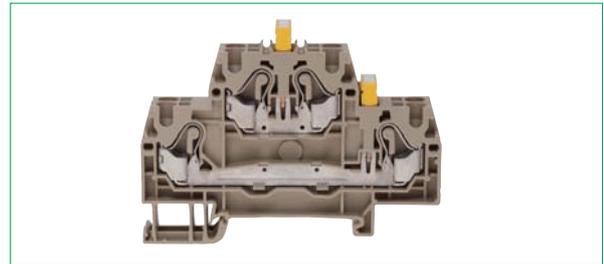
#### Wire connections

Solid and stranded wires with wire-end ferrules can be inserted into the connection system without the need for tools. The pressure spring opens automatically as the wire is fed in and makes a secure contact with the busbar. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules. (Connection cross-section: 4 mm<sup>2</sup>, rated current: 24 A)



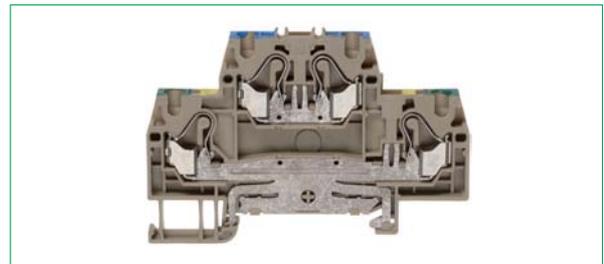
#### Cross-connection system

The upper and lower levels can be cross-connected using the **FQI 2.5/...** standard cross-connections. The **FQI** insulated cross-connections have a pluggable design. They are available with from 2 to 10 poles. They cross connect up to the rated current of the relevant **FRKD** terminals.



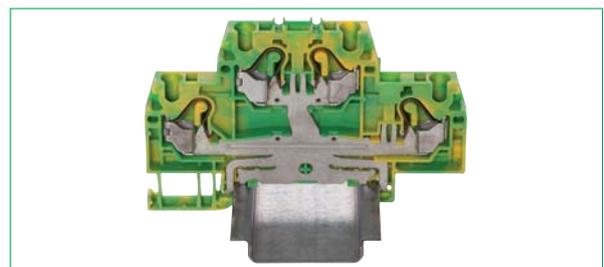
#### Colour labelling

The upper and lower levels are colour-coded. (for example, **FRKD 2.5 N-PE**)



#### Connecting the PE foot onto the DIN rail

As with all **CONTA-CLIP** PE terminals, the **FRKD** terminals also implement a two-sided contact with the DIN rail. In all the **FRK** series, the foot construction and busbar are made of a single piece of copper. This solid, contiguous construction guarantees low contact resistance as well as the high security of the internal-spring PE contact foot.



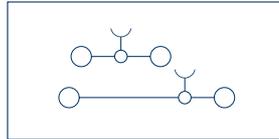
**Double-level terminal blocks FRKD | Double-level protective earth terminal FSLD**

**Pressure-spring connection system**



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

**Connection diagram**



Feed-through terminal  
2 x 2 connections

**FRKD 2.5**



**FRKD 2.5/SV**



Feed-through terminal  
4 connections

**FSLD 2.5**



Protective earth terminal  
4 connections

Connection type	
Size (L x W x H), mm with TS 35 x 7.5 mm	
Size (L x W x H), with Labelling adapter) mm with TS 35 x 7.5 mm	
Type	
Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Colours available	

Pressure-spring system		Qty.
75.4 x 5.1 x 53		
75.4 x 5.1 x 66		
FRKD 2.5 BG		100
<b>3226.2</b>		
FRKD 2.5 BU		100
<b>3226.5</b>		
FRKD 2.5 OG		100
<b>3226.3</b>		

Pressure-spring system		Qty.
75.4 x 5.1 x 53		
75.4 x 5.1 x 66		
FRKD 2.5/SV BG		100
<b>3227.2</b>		
FRKD 2.5/SV BU		100
<b>3227.5</b>		
FRKD 2.5/SV OG		100
<b>3227.3</b>		

Pressure-spring system		Qty.
75.4 x 5.1 x 53		
75.4 x 5.1 x 66		
FSLD 2.5 GNYE		100
<b>3236.2</b>		

Ratings		
Rated voltage, V		
Rated current, A		
Rated wire cross-section, mm <sup>2</sup>   AWG		
Rated impulse voltage, kV   Contamination degree		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94		
Connection data		
Single wire (solid)   stranded (stranded) mm <sup>2</sup>		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>		
Contact wire range, mm <sup>2</sup>		
Stripping length, mm		

② ⑤ ③ ① ⑧ ⑨		
IEC	cCSAus	cCSAus
500	300	600
24	20	5
2.5   26-12		
6   3		
A3   V0		
0.2-4   -		
0.2-4   0.2-2.5		
0.2-4		
12		

② ⑤ ③ ① ⑧ ⑨		
IEC	cCSAus	cCSAus
500	300	600
24	20	5
2.5   26-12		
6   3		
A3   V0		
0.2-4   -		
0.2-4   0.2-2.5		
0.2-4		
12		

②		
IEC	cCSAus	cCSAus
2.5   26-12		
6   3		
A3   V0		
0.2-4   -		
0.2-4   0.2-2.5		
0.2-4		
12		

Features	
Material of insulated housing   Temperature range	
Number of cross-connection channels   Test pick-off	

PA 6.6   -40 to +120°C	
2   -	

PA 6.6   -40 to +120°C	
2   -	

PA 6.6   -40 to +120°C	
2   -	

Accessories		Page	Qty.
FAP end plate			
<b>Cat. no.</b>		279	20
Insulated cross-connector FQI			
<b>Cat. no.</b>	2 poles	302	50
Insulated cross-connector FQI			
<b>Cat. no.</b>	3 poles	302	50
Insulated cross-connector FQI			
<b>Cat. no.</b>	4 poles	302	20
Insulated cross-connector FQI			
<b>Cat. no.</b>	5 poles	302	20
Insulated cross-connector FQI			
<b>Cat. no.</b>	6 poles	302	20
Insulated cross-connector FQI			
<b>Cat. no.</b>	7 poles	302	20
Insulated cross-connector FQI			
<b>Cat. no.</b>	8 poles	302	10
Insulated cross-connector FQI			
<b>Cat. no.</b>	9 poles	302	10
Insulated cross-connector FQI			
<b>Cat. no.</b>	10 poles	302	10
Labelling adapter FBA			
<b>Cat. no.</b>		314	50
Four-way cover FAD			
<b>Cat. no.</b>		314	20
End stop ZES			
<b>Cat. no.</b>		275	50
Screwdriver SDB			
<b>Cat. no.</b>		422	1
Quick marking PMC SB			
<b>Cat. no.</b>		339	500

FAPD 2.5 BG		279	20
<b>3423.2</b>			
FQI 2.5/2 YE		302	50
<b>3462.8</b>			
FQI 2.5/3 YE		302	50
<b>3463.8</b>			
FQI 2.5/4 YE		302	20
<b>3464.8</b>			
FQI 2.5/5 YE		302	20
<b>3465.8</b>			
FQI 2.5/6 YE		302	20
<b>3466.8</b>			
FQI 2.5/7 YE		302	20
<b>3467.8</b>			
FQI 2.5/8 YE		302	10
<b>3468.8</b>			
FQI 2.5/9 YE		302	10
<b>3469.8</b>			
FQI 2.5/10 YE		302	10
<b>3460.8</b>			
FBA 1 BG		314	50
<b>3424.2</b>			
FAD 2.5/4/B YE		314	20
<b>3426.8</b>			
ZES 35/2 BG		275	50
<b>3811.2</b>			
SDB 0,4x2.0		422	1
<b>3164.0</b>			
PMC SB 5/50 WH		339	500
<b>4600.7</b>			

FAPD 2.5 BG		279	20
<b>3423.2</b>			
FQI 2.5/2 YE		302	50
<b>3462.8</b>			
FQI 2.5/3 YE		302	50
<b>3463.8</b>			
FQI 2.5/4 YE		302	20
<b>3464.8</b>			
FQI 2.5/5 YE		302	20
<b>3465.8</b>			
FQI 2.5/6 YE		302	20
<b>3466.8</b>			
FQI 2.5/7 YE		302	20
<b>3467.8</b>			
FQI 2.5/8 YE		302	10
<b>3468.8</b>			
FQI 2.5/9 YE		302	10
<b>3469.8</b>			
FQI 2.5/10 YE		302	10
<b>3460.8</b>			
FBA 1 BG		314	50
<b>3424.2</b>			
FAD 2.5/4/B YE		314	20
<b>3426.8</b>			
ZES 35/2 BG		275	50
<b>3811.2</b>			
SDB 0,4x2.0		422	1
<b>3164.0</b>			
PMC SB 5/50 WH		339	500
<b>4600.7</b>			

FAPD 2.5 GN		279	20
<b>3423.1</b>			
FBA 1 BG		314	50
<b>3424.2</b>			
FAD 2.5/4/B YE		314	20
<b>3426.8</b>			
ZES 35/2 BG		275	50
<b>3811.2</b>			
SDB 0,4x2.0		422	1
<b>3164.0</b>			
PMC SB 5/50 WH		339	500
<b>4600.7</b>			



## Double-level terminals with electronic components FRKD

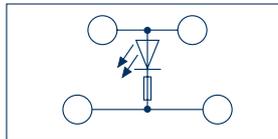
### Pressure-spring connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

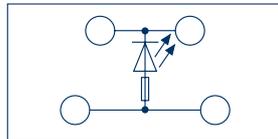
### Connection diagram

### FRKD 2.5/LED1



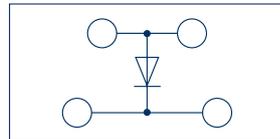
Feed-through terminal  
2 x 2 connections

### FRKD 2.5/LED2



Feed-through terminal  
2 x 2 connections

### FRKD 2.5/D1



Feed-through terminal  
2 x 2 connections

### Connection type

Size (L x W x H), mm with TS 35 x 7.5 mm  
Size (L x W x H), with Labelling adapter) mm with TS 35 x 7.5 mm

### Type

Type colour  
**Cat. no.**

Type colour  
**Cat. no.**

Type colour  
**Cat. no.**

Type colour  
**Cat. no.**

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Cross-current via LED, mA

### Pressure-spring system

75.4 x 5.1 x 53

### Qty.

FRKD 2.5/LED1(RD)/24V DC BG  
**3237.2** 100

### Pressure-spring system

75.4 x 5.1 x 53

### Qty.

FRKD 2.5/LED2(RD)24V DC BG  
**3238.2** 100

### Pressure-spring system

75.4 x 5.1 x 53

### Qty.

FRKD 2.5/D1 BG  
**3230.2** 100

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP  
**Cat. no.**

Insulated cross-connector FQI  
**Cat. no.**

Labelling adapter FBA  
**Cat. no.**

Four-way cover FAD  
**Cat. no.**

End stop ZES  
**Cat. no.**

Screwdriver SDB  
**Cat. no.**

Quick marking PMC SB  
**Cat. no.**

PA 6.6 | -40 to +120°C

1 | -

**Page Qty.**

FAPD 2.5 BG  
**3423.2** 279 20

FQI 2.5/2 YE  
**3462.8** 302 50

FQI 2.5/3 YE  
**3463.8** 302 50

FQI 2.5/4 YE  
**3464.8** 302 20

FQI 2.5/5 YE  
**3465.8** 302 20

FQI 2.5/6 YE  
**3466.8** 302 20

FQI 2.5/7 YE  
**3467.8** 302 20

FQI 2.5/8 YE  
**3468.8** 302 10

FQI 2.5/9 YE  
**3469.8** 302 10

FQI 2.5/10 YE  
**3460.8** 302 10

FAD 2.5/4/B YE  
**3426.8** 314 20

ZES 35/2 BG  
**3811.2** 275 50

SDB 0,4x2.0  
**3164.0** 422 1

PMC SB 5/50 WH  
**4600.7** 339 500

PA 6.6 | -40 to +120°C

1 | -

**Page Qty.**

FAPD 2.5 BG  
**3423.2** 279 20

FQI 2.5/2 YE  
**3462.8** 302 50

FQI 2.5/3 YE  
**3463.8** 302 50

FQI 2.5/4 YE  
**3464.8** 302 20

FQI 2.5/5 YE  
**3465.8** 302 20

FQI 2.5/6 YE  
**3466.8** 302 20

FQI 2.5/7 YE  
**3467.8** 302 20

FQI 2.5/8 YE  
**3468.8** 302 10

FQI 2.5/9 YE  
**3469.8** 302 10

FQI 2.5/10 YE  
**3460.8** 302 10

FAD 2.5/4/B YE  
**3426.8** 314 20

ZES 35/2 BG  
**3811.2** 275 50

SDB 0,4x2.0  
**3164.0** 422 1

PMC SB 5/50 WH  
**4600.7** 339 500

PA 6.6 | -40 to +120°C

2 | -

**Page Qty.**

FAPD 2.5 BG  
**3423.2** 279 20

FQI 2.5/2 YE  
**3462.8** 302 50

FQI 2.5/3 YE  
**3463.8** 302 50

FQI 2.5/4 YE  
**3464.8** 302 20

FQI 2.5/5 YE  
**3465.8** 302 20

FQI 2.5/6 YE  
**3466.8** 302 20

FQI 2.5/7 YE  
**3467.8** 302 20

FQI 2.5/8 YE  
**3468.8** 302 10

FQI 2.5/9 YE  
**3469.8** 302 10

FQI 2.5/10 YE  
**3460.8** 302 10

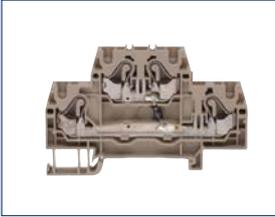
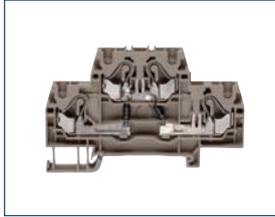
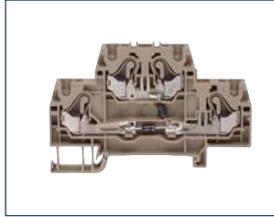
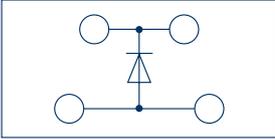
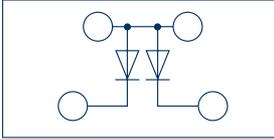
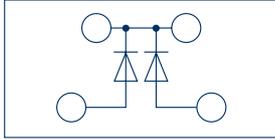
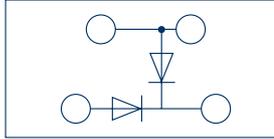
FBA 1 BG  
**3424.2** 314 50

FAD 2.5/4/B YE  
**3426.8** 314 20

ZES 35/2 BG  
**3811.2** 275 50

SDB 0,4x2.0  
**3164.0** 422 1

PMC SB 5/50 WH  
**4600.7** 339 500

FRKD 2.5/D2	FRKD 2.5/D3	FRKD 2.5/D4	FRKD 2.5/D5	
				
				
Feed-through terminal 2 x 2 connections	Feed-through terminal 2 x 2 connections	Feed-through terminal 2 x 2 connections	Feed-through terminal 2 x 2 connections	
<b>Pressure-spring system</b> 75.4 x 5.1 x 53	<b>Pressure-spring system</b> 75.4 x 5.1 x 53	<b>Pressure-spring system</b> 75.4 x 5.1 x 53	<b>Pressure-spring system</b> 75.4 x 5.1 x 53	
<b>Qty.</b> FRKD 2.5/D2 BG <b>3253.2</b> 100	<b>Qty.</b> FRKD 2.5/D3 BG <b>3254.2</b> 100	<b>Qty.</b> FRKD 2.5/D4 BG <b>3255.2</b> 100	<b>Qty.</b> FRKD 2.5/D5 BG <b>3256.2</b> 100	

② IEC cCSAus	② IEC cCSAus	② IEC cCSAus	② IEC cCSAus	
Soldered diode 1N4007 / reverse voltage 1000 V / current 1 A 2.5   26-12 6   3 A3   V0	Soldered diode 1N4007 / reverse voltage 1000 V / current 1 A 2.5   26-12 6   3 A3   V0	Soldered diode 1N4007 / reverse voltage 1000 V / current 1 A 2.5   26-12 6   3 A3   V0	Soldered diode 1N4007 / reverse voltage 1000 V / current 1 A 2.5   26-12 6   3 A3   V0	
0.2-4   - 0.2-4   0.2-2.5 0.2-4 12	0.2-4   - 0.2-4   0.2-2.5 0.2-4 12	0.2-4   - 0.2-4   0.2-2.5 0.2-4 12	0.2-4   - 0.2-4   0.2-2.5 0.2-4 12	
PA 6.6   -40 to +120°C 2   -				

Page Qty.	Page Qty.	Page Qty.	Page Qty.	
FAPD 2.5 BG <b>3423.2</b> 279 20				
FQI 2.5/2 YE <b>3462.8</b> 302 50				
FQI 2.5/3 YE <b>3463.8</b> 302 50				
FQI 2.5/4 YE <b>3464.8</b> 302 20				
FQI 2.5/5 YE <b>3465.8</b> 302 20				
FQI 2.5/6 YE <b>3466.8</b> 302 20				
FQI 2.5/7 YE <b>3467.8</b> 302 20				
FQI 2.5/8 YE <b>3468.8</b> 302 10				
FQI 2.5/9 YE <b>3469.8</b> 302 10				
FQI 2.5/10 YE <b>3460.8</b> 302 10				
FBA 1 BG <b>3424.2</b> 314 50				
FAD 2.5/4/B YE <b>3426.8</b> 314 20				
ZES 35/2 BG <b>3811.2</b> 275 50				
SDB 0,4x2.0 <b>3164.0</b> 422 1				
PMC SB 5/50 WH <b>4600.7</b> 339 500				

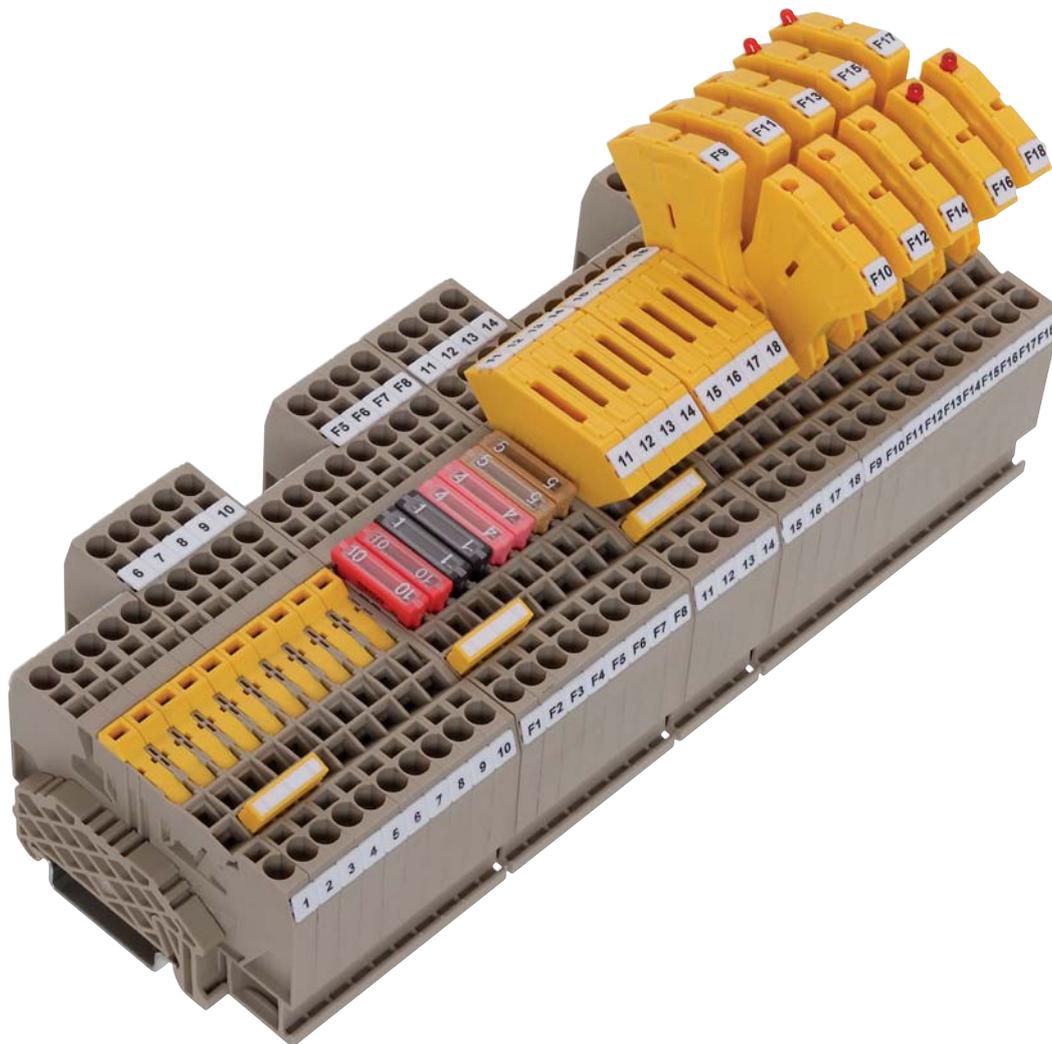
Disconnect-blade terminals | Disconnect terminals | Fused terminals FTRK



The **FTRK** base terminal line can be combined in different ways with the product-related line of accessories as two-wire and three-wire variants. Without any assembly, the two base terminals can receive auto-fuses or diode plugs. Alternatively, the base terminals are available equipped with a disconnect blade or a fuse holder for G fuses. The functions of all versions can be changed by removing or adding the disconnect blade, the fuse holder, or the diode plug. The plug-in fuse holders are available as models with or without a status display. They offer great flexibility, easy handling and a wide selection of 5 x 20 G fuses.

Solid and stranded wires with wire-end ferrules can be inserted into the connection system without the need for tools. The pressure spring opens automatically when the wire is inserted facilitating a secure contact with the busbar. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules.

For the fuse and disconnect terminals with pressure-spring connections, there are eight terminals blocks with disconnect blades and disconnect plugs available, as well as a fuse holder for auto-fuses and micro-fuses. Each of the pressure-spring terminal blocks can be equipped with the standard accessories: **the FQJ 2.5** (cross connector) and the **PMC SB 5** (Pocket-Maxicard quick marking system).



## Disconnect-blade terminals | Disconnect terminals | Fused terminals FTRK

### The features in detail

#### Wire connections

Solid and stranded wires with wire-end ferrules can be inserted into the connection system without the need for tools. The pressure spring opens automatically when the wire is inserted facilitating a secure contact with the busbar. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules. (Connection cross-section: 4 mm<sup>2</sup>, rated current: 24 A)

#### Disconnect terminals FTRK 2.5/.../MT and FTRK 2.5/.../ST

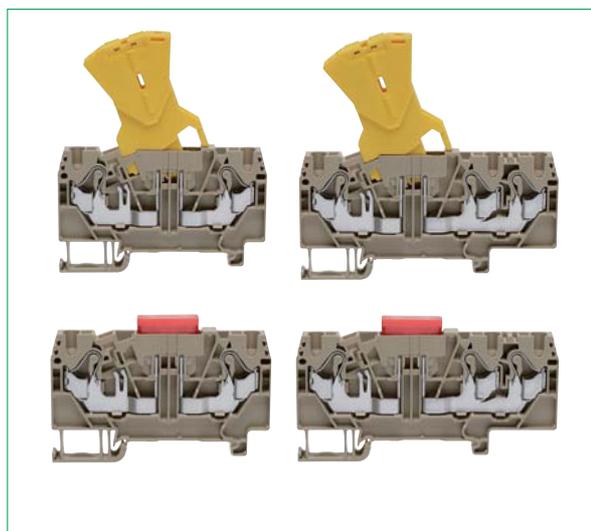
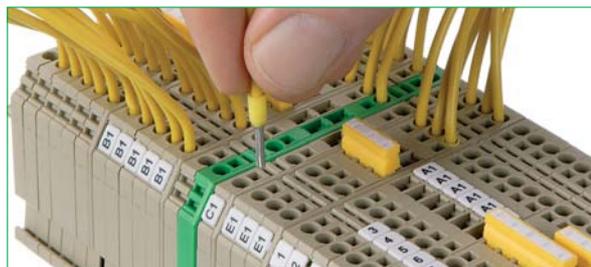
In the pressure-spring system, two models (disconnect-plug/disconnect-blade) are available in the base terminal variations of 2- and 3-conductor systems. The proven **ZDS|ZTR** disconnect-plug and **FTRK 2.5.../MT** disconnect-blade systems with high surface quality and, therefore, low and stable transitional resistance, ensures accurate measurement results. They distinguish themselves by their narrow construction of only 5 mm and a high current capacity of 18 A. In addition to the **ZTR** disconnect-plug models (feed-through connection), **ZDS** diode plugs (1N4007) are also available. It is easy to distribute potential voltages in combination with the pluggable **FQI** cross connectors.

#### Fuse holder for micro-fuse/auto-fuse FTRK 2.5/.../OT with auto-fuse and FTRK 2.5/.../ZS

The base terminals can hold auto-fuses without needing any accessories. With the fuse plug **ZS/H**, available in five variations, 5x20 fuses can be accommodated. The fuse plugs are available in variations with or without status display (different voltage ranges). With a rated voltage of 400 V, the rated current of the fuse plug is 6.3 A. In combination with the pluggable **FQI** cross connectors, it is easy to distribute voltage potentials.

#### Cross-connection FQI

The **FQI** insulated cross-connections have a pluggable design and are available with from 2 to 10 poles. They cross connect up to the rated current of the relevant **FTRK** terminals.



Disconnect-blade terminals / Disconnect terminals FTRK

Pressure-spring connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

Connection diagram

Connection type

Size (L x W x H), mm with TS 35 x 7.5 mm

Type

Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Colours available	

Ratings

Rated voltage, V	
Rated current, A	
Rated wire cross-section, mm <sup>2</sup>   AWG	
Rated impulse voltage, kV   Contamination degree	
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	

Connection data

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	
Contact wire range, mm <sup>2</sup>	
Stripping length, mm	

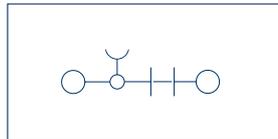
Features

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

Accessories

End plate AP	
<b>Cat. no.</b>	
Insulated cross-connector FQI	
<b>Cat. no.</b>	2 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	3 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	4 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	5 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	6 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	7 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	8 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	9 poles
Insulated cross-connector FQI	
<b>Cat. no.</b>	10 poles
Four-way cover FAD	
<b>Cat. no.</b>	
End stop ZES	
<b>Cat. no.</b>	
Screwdriver SDB	
<b>Cat. no.</b>	
Quick marking PMC SB	
<b>Cat. no.</b>	

FTRK 2.5/2A/MT



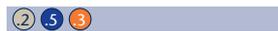
Disconnect-blade terminal  
2 connections

Pressure-spring system

67.5 x 5.1 x 45.6

Qty.

FTRK 2,5/2A/MT BG	
<b>3259.2</b>	100
FTRK 2,5/2A/MT BU	
<b>3259.5</b>	



IEC CSAus CSA

400	300	300
18	15	15
2.5   20-12		
6   3		
A3   V0		

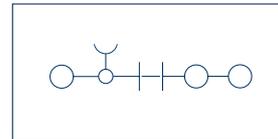
0.2-4   -
0.2-4   0.2-2.5
0.2-4
10

PA 6.6 | -40 to +120 °C  
1 | -

Page Qty.

FAPT 2,5/2A BG		
<b>3481.2</b>	279	50
FQI 2,5/2 YE		
<b>3462.8</b>	302	50
FQI 2,5/3 YE		
<b>3463.8</b>	302	50
FQI 2,5/4 YE		
<b>3464.8</b>	302	20
FQI 2,5/5 YE		
<b>3465.8</b>	302	20
FQI 2,5/6 YE		
<b>3466.8</b>	302	20
FQI 2,5/7 YE		
<b>3467.8</b>	302	20
FQI 2,5/8 YE		
<b>3468.8</b>	302	10
FQI 2,5/9 YE		
<b>3469.8</b>	302	10
FQI 2,5/10 YE		
<b>3460.8</b>	302	10
FAD 2,5/4/B YE		
<b>3426.8</b>	314	20
ZES 35/2 BG		
<b>3811.2</b>	275	50
SDB 0,4x2,0		
<b>3164.0</b>	422	1
PMC SB 5/50 WH		
<b>4600.7</b>	339	500

FTRK 2.5/3A/MT



Disconnect-blade terminal  
3 connections

Pressure-spring system

82.0 x 5.1 x 45.6

Qty.

FTRK 2,5/3A/MT BG	
<b>3260.2</b>	100
FTRK 2,5/3A/MT BU	
<b>3260.5</b>	100



IEC CSAus CSA

400	300	300
18	15	15
2.5   20-12		
6   3		
A3   V0		

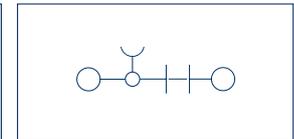
0.2-4   -
0.2-4   0.2-2.5
0.2-4
10

PA 6.6 | -40 to +120°C  
1 | -

Page Qty.

FAPT 2,5/3A BG		
<b>3482.2</b>	279	50
FQI 2,5/2 YE		
<b>3462.8</b>	302	50
FQI 2,5/3 YE		
<b>3463.8</b>	302	50
FQI 2,5/4 YE		
<b>3464.8</b>	302	20
FQI 2,5/5 YE		
<b>3465.8</b>	302	20
FQI 2,5/6 YE		
<b>3466.8</b>	302	20
FQI 2,5/7 YE		
<b>3467.8</b>	302	20
FQI 2,5/8 YE		
<b>3468.8</b>	302	10
FQI 2,5/9 YE		
<b>3469.8</b>	302	10
FQI 2,5/10 YE		
<b>3460.8</b>	302	10
FAD 2,5/4/B YE		
<b>3426.8</b>	314	20
ZES 35/2 BG		
<b>3811.2</b>	275	50
SDB 0,4x2,0		
<b>3164.0</b>	422	1
PMC SB 5/50 WH		
<b>4600.7</b>	339	500

FTRK 2.5/2A/ST



Disconnect terminal  
2 connections

Pressure-spring system

67.5 x 5.1 x 59.5

Qty.

FTRK 2,5/2A/ST BG	
<b>3261.2</b>	100
FTRK 2,5/2A/ST BU	
<b>3261.5</b>	100



IEC CSAus CSA

400	300	300
18	15	15
2.5   20-12		
6   3		
A3   V0		

0.2-4   -
0.2-4   0.2-2.5
0.2-4
10

PA 6.6 | -40 to +120°C  
1 | -

Page Qty.

FAPT 2,5/2A BG		
<b>3481.2</b>	279	50
FQI 2,5/2 YE		
<b>3462.8</b>	302	50
FQI 2,5/3 YE		
<b>3463.8</b>	302	50
FQI 2,5/4 YE		
<b>3464.8</b>	302	20
FQI 2,5/5 YE		
<b>3465.8</b>	302	20
FQI 2,5/6 YE		
<b>3466.8</b>	302	20
FQI 2,5/7 YE		
<b>3467.8</b>	302	20
FQI 2,5/8 YE		
<b>3468.8</b>	302	10
FQI 2,5/9 YE		
<b>3469.8</b>	302	10
FQI 2,5/10 YE		
<b>3460.8</b>	302	10
FAD 2,5/4/B YE		
<b>3426.8</b>	314	20
ZES 35/2 BG		
<b>3811.2</b>	275	50
SDB 0,4x2,0		
<b>3164.0</b>	422	1
PMC SB 5/50 WH		
<b>4600.7</b>	339	500

FTRK 2.5/3A/ST			FTRK 2.5/2A/OT			FTRK 2.5/3A/OT			ZDS/ZTR			
Disconnect terminal 3 connections			base terminal 2 connections			base terminal 3 connections			Disconnect plug			
<b>Pressure-spring system</b> 82.0 x 5.1 x 59.5			<b>Pressure-spring system</b> 67.5 x 5.1 x 43			<b>Pressure-spring system</b> 82.0 x 5.1 x 43			<b>Pressure-spring system</b>			
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			
FTRK 2.5/3A/ST BG <b>3262.2</b> 100			FTRK 2.5/2A/OT BG <b>3257.2</b> 100			FTRK 2.5/3A/OT BG <b>3258.2</b> 100			ZDS 1/ZTR <b>3612.2</b> 20			
FTRK 2.5/3A/ST BU <b>3262.5</b> 100			FTRK 2.5/2A/OT BU <b>3257.5</b> 100			FTRK 2.5/3A/OT BU <b>3258.5</b> 100			ZDS 2/ZTR <b>3613.2</b> 20			
									ZDS 3/ZTR <b>3614.2</b> 20			
									ZDS 4/ZTR <b>3615.2</b> 20			
<b>② ⑤</b>			<b>② ⑤ ③</b>			<b>② ⑤ ③</b>			<b>IEC UL CSA</b>			
<b>IEC CSAus CSA</b>			<b>IEC CSAus CSA</b>			<b>IEC CSAus CSA</b>			<b>IEC UL CSA</b>			
400 300 300			400 300 300			400 300 300			- - -			
18 15 15			18 15 15			18 15 15			- - -			
2.5   20-12			2.5   20-12			2.5   20-12			-			
6   3			6   3			6   3			-			
A3   V0			A3   V0			A3   V0			-   V0			
0.2-4   -			0.2-4   -			0.2-4   -						
0.2-4   0.2-2.5			0.2-4   0.2-2.5			0.2-4   0.2-2.5						
0.2-4			0.2-4			0.2-4						
10			10			10						
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			
1   -			1   -			1   -			-   -			
<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>			
FAPT 2.5/3A BG <b>3482.2</b> 279 50			FAPT 2.5/2A BG <b>3481.2</b> 279 50			FAPT 2.5/3A BG <b>3482.2</b> 279 50						
FQI 2.5/2 YE <b>3462.8</b> 302 50			FQI 2.5/2 YE <b>3462.8</b> 302 50			FQI 2.5/2 YE <b>3462.8</b> 302 50						
FQI 2.5/3 YE <b>3463.8</b> 302 50			FQI 2.5/3 YE <b>3463.8</b> 302 50			FQI 2.5/3 YE <b>3463.8</b> 302 50						
FQI 2.5/4 YE <b>3464.8</b> 302 20			FQI 2.5/4 YE <b>3464.8</b> 302 20			FQI 2.5/4 YE <b>3464.8</b> 302 20						
FQI 2.5/5 YE <b>3465.8</b> 302 20			FQI 2.5/5 YE <b>3465.8</b> 302 20			FQI 2.5/5 YE <b>3465.8</b> 302 20						
FQI 2.5/6 YE <b>3466.8</b> 302 20			FQI 2.5/6 YE <b>3466.8</b> 302 20			FQI 2.5/6 YE <b>3466.8</b> 302 20						
FQI 2.5/7 YE <b>3467.8</b> 302 20			FQI 2.5/7 YE <b>3467.8</b> 302 20			FQI 2.5/7 YE <b>3467.8</b> 302 20						
FQI 2.5/8 YE <b>3468.8</b> 302 10			FQI 2.5/8 YE <b>3468.8</b> 302 10			FQI 2.5/8 YE <b>3468.8</b> 302 10						
FQI 2.5/9 YE <b>3469.8</b> 302 10			FQI 2.5/9 YE <b>3469.8</b> 302 10			FQI 2.5/9 YE <b>3469.8</b> 302 10						
FQI 2.5/10 YE <b>3460.8</b> 302 10			FQI 2.5/10 YE <b>3460.8</b> 302 10			FQI 2.5/10 YE <b>3460.8</b> 302 10						
FAD 2.5/4/B YE <b>3426.8</b> 314 20			FAD 2.5/4/B YE <b>3426.8</b> 314 20			FAD 2.5/4/B YE <b>3426.8</b> 314 20						
ZES 35/2 BG <b>3811.2</b> 275 50			ZES 35/2 BG <b>3811.2</b> 275 50			ZES 35/2 BG <b>3811.2</b> 275 50						
SDB 0,4x2.0 <b>3164.0</b> 422 1			SDB 0,4x2.0 <b>3164.0</b> 422 1			SDB 0,4x2.0 <b>3164.0</b> 422 1						
PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500			

## Fuse-disconnect terminals FTRK

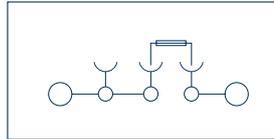
### Pressure-spring connection system



- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

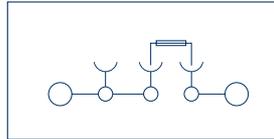
### Connection diagram

#### FTRK 2.5/2A/ZS



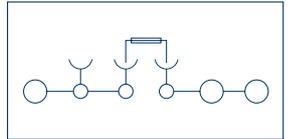
Fuse disconnect terminal  
2 connections

#### FTRK 2.5/2A/ZS...



Fuse disconnect terminal  
2 connections

#### FTRK 2.5/3A/ZS



Fuse disconnect terminal  
3 connections

### Connection type

Size (L x W x H), mm with TS 35 x 7.5 mm

### Pressure-spring system

67.5 x 5.1 x 81.2

### Pressure-spring system

67.5 x 5.1 x 81.2

### Pressure-spring system

82 x 5.1 x 81.2

### Type

Type colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Max. power loss, W

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Cross-current via LED, mA

Fuse size, mm (on page 324)

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

FAP end plate

**Cat. no.**

Insulated cross-connector FQI

**Cat. no.**

2 poles

Insulated cross-connector FQI

**Cat. no.**

3 poles

Insulated cross-connector FQI

**Cat. no.**

4 poles

Insulated cross-connector FQI

**Cat. no.**

5 poles

Insulated cross-connector FQI

**Cat. no.**

6 poles

Insulated cross-connector FQI

**Cat. no.**

7 poles

Insulated cross-connector FQI

**Cat. no.**

8 poles

Insulated cross-connector FQI

**Cat. no.**

9 poles

Insulated cross-connector FQI

**Cat. no.**

10 poles

Four-way cover FAD

**Cat. no.**

End stop ZES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

### Qty.

FTRK 2.5/2A/ZS BG

**3263.2** 100

FTRK 2.5/2A/ZS BU

**3263.5** 100

② ⑤

**IEC CSAus CSA**

400 300 300

6,3 6,3 6,3

2.5 | 20-12

6 | 3

1,6

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

-

5 x 20

PA 6.6 | -40 to +120°C

1 | -

**Page Qty.**

FAPT 2.5/2A BG

**3481.2** 279 50

FQI 2.5/2 YE

**3462.8** 302 50

FQI 2.5/3 YE

**3463.8** 302 50

FQI 2.5/4 YE

**3464.8** 302 20

FQI 2.5/5 YE

**3465.8** 302 20

FQI 2.5/6 YE

**3466.8** 302 20

FQI 2.5/7 YE

**3467.8** 302 20

FQI 2.5/8 YE

**3468.8** 302 10

FQI 2.5/9 YE

**3469.8** 302 10

FQI 2.5/10 YE

**3460.8** 302 10

FAD 2.5/4/B YE

**3426.8** 314 20

ZES 35/2 BG

**3811.2** 275 50

SDB 0,4x2,0

**3164.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

### Qty.

FTRK 2.5/2A/ZS 36 BG

**3264.2** 10-36 V 100

FTRK 2.5/2A/ZS 70 BG

**3265.2** 35-70 V 100

FTRK 2.5/2A/ZS 150 BG

**3266.2** 60-150 V 100

FTRK 2.5/2A/ZS 250 BG

**3267.2** 140-250 V 100

②

**IEC CSAus CSA**

See above

6,3 6,3 6,3

2.5 | 20-12

6 | 3

1,6

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

5

5 x 20

PA 6.6 | -40 to +120°C

1 | -

**Page Qty.**

FAPT 2.5/2A BG

**3481.2** 279 50

FQI 2.5/2 YE

**3462.8** 302 50

FQI 2.5/3 YE

**3463.8** 302 50

FQI 2.5/4 YE

**3464.8** 302 20

FQI 2.5/5 YE

**3465.8** 302 20

FQI 2.5/6 YE

**3466.8** 302 20

FQI 2.5/7 YE

**3467.8** 302 20

FQI 2.5/8 YE

**3468.8** 302 10

FQI 2.5/9 YE

**3469.8** 302 10

FQI 2.5/10 YE

**3460.8** 302 10

FAD 2.5/4/B YE

**3426.8** 314 20

ZES 35/2 BG

**3811.2** 275 50

SDB 0,4x2,0

**3164.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

### Qty.

FTRK 2.5/3A/ZS BG

**3268.2** 100

FTRK 2.5/3A/ZS BU

**3268.5** 100

② ⑤

**IEC CSAus CSA**

400 300 300

6,3 6,3 6,3

2.5 | 20-12

6 | 3

1,6

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

-

5 x 20

PA 6.6 | -40 to +120°C

1 | -

**Page Qty.**

FAPT 2.5/3A BG

**3482.2** 279 50

FQI 2.5/2 YE

**3462.8** 302 50

FQI 2.5/3 YE

**3463.8** 302 50

FQI 2.5/4 YE

**3464.8** 302 20

FQI 2.5/5 YE

**3465.8** 302 20

FQI 2.5/6 YE

**3466.8** 302 20

FQI 2.5/7 YE

**3467.8** 302 20

FQI 2.5/8 YE

**3468.8** 302 10

FQI 2.5/9 YE

**3469.8** 302 10

FQI 2.5/10 YE

**3460.8** 302 10

FAD 2.5/4/B YE

**3426.8** 314 20

ZES 35/2 BG

**3811.2** 275 50

SDB 0,4x2,0

**3164.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

FTRK 2.5/3A/ZS			FTRK 2.5/2A/OT			FTRK 2.5/3A/OT			ZS/H.../ZTR		
Fuse disconnect terminal 3 connections			Base terminal 2 connections			Base terminal 3 connections			Fuse plug for 5 x 20 fuses		
<b>Pressure-spring system</b> 82 x 5.1 x 81.2			<b>Pressure-spring system</b> 67.5 x 5.1 x 43.0			<b>Pressure-spring system</b> 80.2 x 5.1 x 39.2			<b>Pressure-spring system</b>		
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>		
FTRK 2.5/3A/ZS 36 BG <b>3269.2</b> 10-36 V 100			FTRK 2.5/2A/OT BG <b>3257.2</b> 100			FTRK 2.5/3A/OT BG <b>3258.2</b> 100			ZS/H0/ZTR <b>3635.2</b> 20		
FTRK 2.5/3A/ZS 70 BG <b>3270.2</b> 35-70 V 100			FTRK 2.5/2A/OT BU <b>3257.5</b> 100			FTRK 2.5/3A/OT BU <b>3258.5</b> 100			ZS/H1/ZTR/36 <b>3631.2</b> 10V-36V 20		
FTRK 2.5/3A/ZS 150 BG <b>3271.2</b> 60-150 V 100									ZS/H2/ZTR/70 <b>3632.2</b> 35V-70V 20		
FTRK 2.5/3A/ZS 250 BG <b>3272.2</b> 140-250 V 100									ZS/H3/ZTR/150 <b>3633.2</b> 60V-150V 20		
									ZS/H4/ZTR/250 <b>3634.2</b> 140V-250V 20		
<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>	<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>	<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>			
	See above		400	300	300	400	300	300			
6,3	6,3	6,3	15*	15	15	15*	15	15			
	2.5   20-12			15			15				
	6   3			2.5   20-12			2.5   20-12				
	1,6			6   3			6   3				
	A3   V0			1,6			1,6				
	0.5-4   -						0.5-4   -				
	0.5-4   0.5-2.5			0.5-4   -			0.5-4   0.5-2.5				
	0.08-4			0.5-4   0.5-2.5			0.08-4				
	10			0.08-4			10				
	5			10			10				
	5 x 20										
	PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C				
	1   -			1   -			1   -				
<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>		
FAPT 2.5/3A BG <b>3482.2</b> 279 50			FAPT 2.5/2A BG <b>3481.2</b> 279 50			FAPT 2.5/3A BG <b>3482.2</b> 279 50					
FQI 2.5/2 YE <b>3462.8</b> 302 50			FQI 2.5/2 YE <b>3462.8</b> 302 50			FQI 2.5/2 YE <b>3462.8</b> 302 50					
FQI 2.5/3 YE <b>3463.8</b> 302 50			FQI 2.5/3 YE <b>3463.8</b> 302 50			FQI 2.5/3 YE <b>3463.8</b> 302 50					
FQI 2.5/4 YE <b>3464.8</b> 302 20			FQI 2.5/4 YE <b>3464.8</b> 302 20			FQI 2.5/4 YE <b>3464.8</b> 302 20					
FQI 2.5/5 YE <b>3465.8</b> 302 20			FQI 2.5/5 YE <b>3465.8</b> 302 20			FQI 2.5/5 YE <b>3465.8</b> 302 20					
FQI 2.5/6 YE <b>3466.8</b> 302 20			FQI 2.5/6 YE <b>3466.8</b> 302 20			FQI 2.5/6 YE <b>3466.8</b> 302 20					
FQI 2.5/7 YE <b>3467.8</b> 302 20			FQI 2.5/7 YE <b>3467.8</b> 302 20			FQI 2.5/7 YE <b>3467.8</b> 302 20					
FQI 2.5/8 YE <b>3468.8</b> 302 10			FQI 2.5/8 YE <b>3468.8</b> 302 10			FQI 2.5/8 YE <b>3468.8</b> 302 10					
FQI 2.5/9 YE <b>3469.8</b> 302 10			FQI 2.5/9 YE <b>3469.8</b> 302 10			FQI 2.5/9 YE <b>3469.8</b> 302 10					
FQI 2.5/10 YE <b>3460.8</b> 302 10			FQI 2.5/10 YE <b>3460.8</b> 302 10			FQI 2.5/10 YE <b>3460.8</b> 302 10					
FAD 2.5/4/B YE <b>3426.8</b> 314 20			FAD 2.5/4/B YE <b>3426.8</b> 314 20			FAD 2.5/4/B YE <b>3426.8</b> 314 20					
ZES 35/2 BG <b>3811.2</b> 275 50			ZES 35/2 BG <b>3811.2</b> 275 50			ZES 35/2 BG <b>3811.2</b> 275 50					
SDB 0,4x2.0 <b>3164.0</b> 422 1			SDB 0,4x2.0 <b>3164.0</b> 422 1			SDB 0,4x2.0 <b>3164.0</b> 422 1					
PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500		

\* When using motor vehicle fuses, the current is limited to 10 amps!

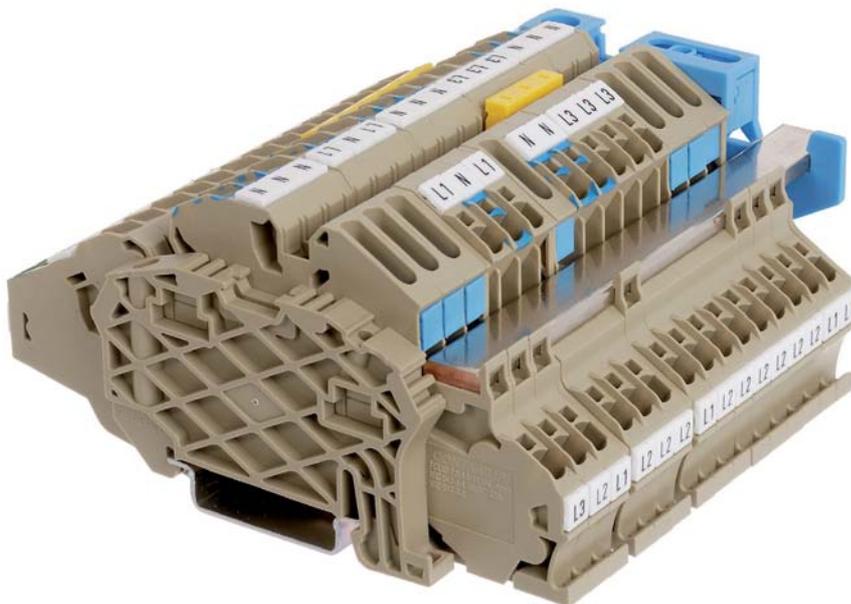
## Three-wire installation terminals FDLIS



With a width of just 5 mm, the new **FDLIS** series is available in seven versions and connects with stranded or solid wires up to 4mm<sup>2</sup> with a rated current of up to 32 A. Solid and stranded wires with wire-end ferrules can be inserted into the connection system without the need for tools. The pressure spring opens automatically when the wire is inserted facilitating a secure contact with the busbar. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules. The version with neutral disconnection is designed to accommodate a 10 x 3 mm neutral wire busbar. There is no need for an additional fixing plate because the NT terminal snaps the neutral wire busbar securely into place. The result is optimized storage and costs, combined with the added advantage that you save 1.5 mm for each fixing plate no longer needed when mounting side-by-side on the DIN rail.

The PE foot from **CONTA-CLIP** that contacts the PE potential to the DIN rail is designed to contact on both sides. This means that more materi-

al is required; however this offers more safety in the area around the protective earth contact. In addition to the **FDLIS** range of individual terminals and all the advantages that they have to offer, **CONTA-CLIP** also has pre-assembled blocks of terminals on offer. The program contains six different blocks of terminals in common combinations for 1- to 3-phase installation structures. In addition to the above-mentioned advantages that the individual terminals offer, the use of these standard blocks saves time when installing the distribution wiring and results in extra optimization of work flows and storage costs. The special construction of the foot guarantees that these blocks of terminals are simply snapped onto the DIN rail - and can be just as easily removed. Consequently, **CONTA-CLIP** is offering an ideal enhancement to the field of installation technology.



## Three-wire installation terminals FDLIS

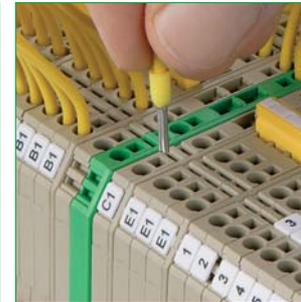
### The features in detail

#### Wire connections

Solid and stranded wires with wire end ferrules can be inserted into the connection system without the need for tools. Connection cross-section of 4 mm<sup>2</sup>, solid or stranded wire with wire-end ferrule. Rated current 32 A at only 5.1-mm single-terminal width. **FQI** cross-connections are pluggable and insulated. They are available from 2 to 10 poles and can be used to safely distribute current on the **FDLIS** terminals.



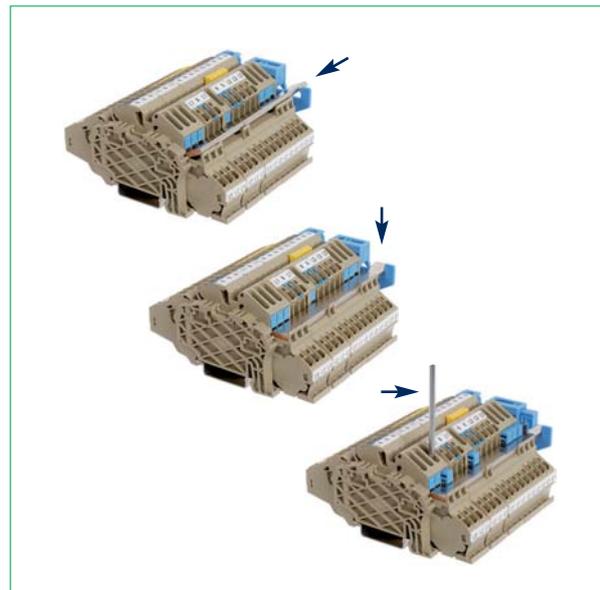
Insert FQI



Connection without tools

#### Attaching and contacting neutral busbars

The neutral disconnect terminals have an integrated fitting and mounting system for the 10 x 3 mm neutral busbars. Thus, an additional fixing plate is not needed and design width is decreased for the terminal construction. Another advantage is the reduction in storage costs. The NT rail is quickly and securely connected with the terminal via a self-connecting, no-screw NT slider.



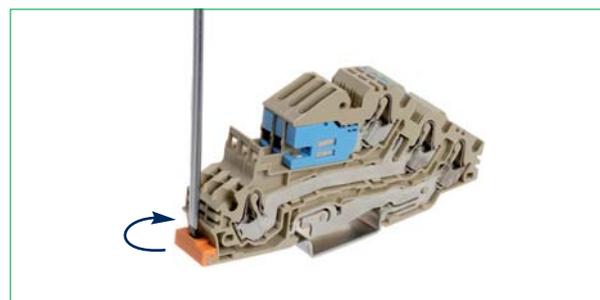
#### Connecting the PE foot onto the DIN rail

As with all **CONTA-CLIP** PE terminals, the **FDLIS** terminals also implement a two-sided contact with the DIN rail. In all the **FRK** series, the foot construction and busbar are made of a single piece of copper. This solid, contiguous construction guarantees low contact resistance as well as the high security of the internal-spring PE contact foot.

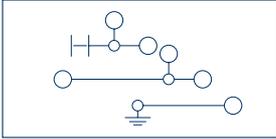
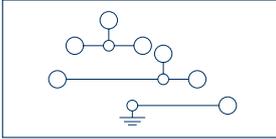
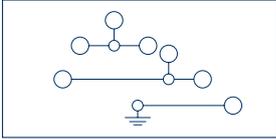


#### Block versions

Block version terminals are connected underneath each other with pegs. This results in increased design stability compared with individual terminals. All **CONTA-CLIP** block versions can be quickly and easily snapped on, with one hand grip, using a special latch in the terminal foot. Removing the blocks is just as quick – using the connected feet with the help of a screwdriver.



### Three-wire installation terminals FDLIS

Pressure-spring connection system	FDLIS 2.5-4 NT/L/PE	FDLIS 2.5-4 N/L/PE	FDLIS 2.5-4 L/L/PE
 <ul style="list-style-type: none"> <li>• Foot can be snapped on TS 35 DIN rail</li> <li>• Housing made from polyamide 6.6 UL 94-V0</li> </ul>			
<b>Connection diagram</b>			
	Three-wire installation terminals 4 connections	Three-wire installation terminals 5 connections	Three-wire installation terminals 5 connections
<b>Connection type</b> Size (L x W x H), mm with TS 35 x 7.5 mm	<b>Pressure-spring system</b> 100 x 5.1 x 49	<b>Pressure-spring system</b> 100 x 5.1 x 49	<b>Pressure-spring system</b> 100 x 5.1 x 49
<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Type colour <b>Cat. no.</b>	FDLIS 2.5-4 NT/L/PE <b>3240.2</b> 50	FDLIS 2.5-4 N/L/PE <b>3241.2</b> 50	FDLIS 2.5-4 L/L/PE <b>3242.2</b> 100
Type colour <b>Cat. no.</b>			
Type colour <b>Cat. no.</b>			
Type colour <b>Cat. no.</b>			
Colours available	②	②	②
<b>Ratings</b>	<b>IEC cCSAus cCSAus</b>	<b>IEC cCSAus cCSAus</b>	<b>IEC cCSAus cCSAus</b>
Rated voltage, V	400 300 600	400 300 600	400 300 600
Rated current, A	32 25 5	32 25 5	32 25 5
Rated wire cross-section, mm <sup>2</sup>   AWG	4   26-10	4   26-10	4   26-10
Rated impulse voltage, kV   Contamination degree	6   3	6   3	6   3
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0	A3   V0	A3   V0
<b>Connection data</b>			
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.2-4   -	0.2-4   -	0.2-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2-4   0.2-2.5	0.2-4   0.2-2.5	0.2-4   0.2-2.5
Contact wire range, mm <sup>2</sup>	0.2-4	0.2-4	0.2-4
Stripping length, mm	12	12	12
Special connection, mm	Busbar 10 x 3		
<b>Features</b>			
Material of insulated housing   Temperature range	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
Number of cross-connection channels   Test pick-off	2   -	2   -	2   -
<b>Accessories</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
End plate AP <b>Cat. no.</b>	FAP 4/S BG <b>3480.2</b> 279 20	FAP 4/S BG <b>3480.2</b> 279 20	FAP 4/S BG <b>3480.2</b> 279 20
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/2 YE <b>3492.8</b> 302 50	FQI 2.5-4/2 YE <b>3492.8</b> 302 50	FQI 2.5-4/2 YE <b>3492.8</b> 302 50
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/3 YE <b>3493.8</b> 302 50	FQI 2.5-4/3 YE <b>3493.8</b> 302 50	FQI 2.5-4/3 YE <b>3493.8</b> 302 50
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/4 YE <b>3494.8</b> 302 20	FQI 2.5-4/4 YE <b>3494.8</b> 302 20	FQI 2.5-4/4 YE <b>3494.8</b> 302 20
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/5 YE <b>3495.8</b> 302 20	FQI 2.5-4/5 YE <b>3495.8</b> 302 20	FQI 2.5-4/5 YE <b>3495.8</b> 302 20
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/6 YE <b>3496.8</b> 302 20	FQI 2.5-4/6 YE <b>3496.8</b> 302 20	FQI 2.5-4/6 YE <b>3496.8</b> 302 20
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/7 YE <b>3497.8</b> 302 20	FQI 2.5-4/7 YE <b>3497.8</b> 302 20	FQI 2.5-4/7 YE <b>3497.8</b> 302 20
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/8 YE <b>3498.8</b> 302 10	FQI 2.5-4/8 YE <b>3498.8</b> 302 10	FQI 2.5-4/8 YE <b>3498.8</b> 302 10
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/9 YE <b>3499.8</b> 302 10	FQI 2.5-4/9 YE <b>3499.8</b> 302 10	FQI 2.5-4/9 YE <b>3499.8</b> 302 10
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/10 YE <b>3490.8</b> 302 10	FQI 2.5-4/10 YE <b>3490.8</b> 302 10	FQI 2.5-4/10 YE <b>3490.8</b> 302 10
Busbar Ssch CU <b>Cat. no.</b>	Ssch 10x3 CU <b>2129.0</b> 83 1m		
End stop ZES <b>Cat. no.</b>	ZES 35/2 BG <b>3811.2</b> 275 50	ZES 35/2 BG <b>3811.2</b> 275 50	ZES 35/2 BG <b>3811.2</b> 275 50
Screwdriver SDB <b>Cat. no.</b>	SDB 0,4x2.0 <b>3164.0</b> 422 1	SDB 0,4x2.0 <b>3164.0</b> 422 1	SDB 0,4x2.0 <b>3164.0</b> 422 1
Quick marking PMC SB <b>Cat. no.</b>	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500

More accessories starting on page 264.



Three-wire installation terminals and block versions FDLIS

Pressure-spring connection system	FDLIS B 2.5-4 3NT/3L/3PE	FDLIS B 2.5-4 NT/3L/PE	FDLIS B 2.5-4 3L/3N/3PE
 <ul style="list-style-type: none"> <li>Foot can be snapped on TS 35 DIN rail</li> <li>Housing made from polyamide 6.6 UL 94-V0</li> </ul>			
<b>Connection diagram</b>			
	Three-wire installation blocks	Three-wire installation blocks	Three-wire installation blocks
<b>Connection type</b> Size (L x W x H), mm with TS 35 x 7.5 mm	<b>Pressure-spring system</b> 100 x 15.3 x 49	<b>Pressure-spring system</b> 100 x 10.2 x 49	<b>Pressure-spring system</b> 100 x 15.3 x 49
<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Type colour <b>Cat. no.</b>	FDLIS B 2.5-4 3NT/3L/3PE <b>3247.2</b>	FDLIS B 2.5-4 NT/3L/PE <b>3248.2</b>	FDLIS B 2.5-4 3L/3N/3PE <b>3249.2</b>
Type colour <b>Cat. no.</b>			
Type colour <b>Cat. no.</b>			
Type colour <b>Cat. no.</b>			
Colours available	②	②	②
<b>Ratings</b>	<b>IEC</b> <b>cCSAus</b> <b>cCSAus</b>	<b>IEC</b> <b>cCSAus</b> <b>cCSAus</b>	<b>IEC</b> <b>cCSAus</b> <b>cCSAus</b>
Rated voltage, V	400 300 600	400 300 600	400 300 600
Rated current, A	32 25 5	32 25 5	32 25 5
Rated wire cross-section, mm <sup>2</sup>   AWG	4   26-10	4   26-10	4   26-10
Rated impulse voltage, kV   Contamination degree	6   3	6   3	6   3
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0	A3   V0	A3   V0
<b>Connection data</b>			
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.2-4   -	0.2-4   -	0.2-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2-4   0.2-2.5	0.2-4   0.2-2.5	0.2-4   0.2-2.5
Contact wire range, mm <sup>2</sup>	0.2-4	0.2-4	0.2-4
Stripping length, mm	12	12	12
<b>Features</b>			
Material of insulated housing   Temperature range	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
Number of cross-connection channels   Test pick-off	2   -	2   -	2   -
<b>Accessories</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
FAP end plate <b>Cat. no.</b>	FAP 4/S BG <b>3480.2</b>	FAP 4/S BG <b>3480.2</b>	FAP 4/S BG <b>3480.2</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/2 YE <b>3492.8</b>	FQI 2.5-4/2 YE <b>3492.8</b>	FQI 2.5-4/2 YE <b>3492.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/3 YE <b>3493.8</b>	FQI 2.5-4/3 YE <b>3493.8</b>	FQI 2.5-4/3 YE <b>3493.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/4 YE <b>3494.8</b>	FQI 2.5-4/4 YE <b>3494.8</b>	FQI 2.5-4/4 YE <b>3494.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/5 YE <b>3495.8</b>	FQI 2.5-4/5 YE <b>3495.8</b>	FQI 2.5-4/5 YE <b>3495.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/6 YE <b>3496.8</b>	FQI 2.5-4/6 YE <b>3496.8</b>	FQI 2.5-4/6 YE <b>3496.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/7 YE <b>3497.8</b>	FQI 2.5-4/7 YE <b>3497.8</b>	FQI 2.5-4/7 YE <b>3497.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/8 YE <b>3498.8</b>	FQI 2.5-4/8 YE <b>3498.8</b>	FQI 2.5-4/8 YE <b>3498.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/9 YE <b>3499.8</b>	FQI 2.5-4/9 YE <b>3499.8</b>	FQI 2.5-4/9 YE <b>3499.8</b>
Insulated cross-connector FQI <b>Cat. no.</b>	FQI 2.5-4/10 YE <b>3490.8</b>	FQI 2.5-4/10 YE <b>3490.8</b>	FQI 2.5-4/10 YE <b>3490.8</b>
Busbar Ssch CU <b>Cat. no.</b>	Ssch 10x3 CU <b>2129.0</b>	Ssch 10x3 CU <b>2129.0</b>	Ssch 10x3 CU <b>2129.0</b>
End stop ZES <b>Cat. no.</b>	ZES 35/2 BG <b>3811.2</b>	ZES 35/2 BG <b>3811.2</b>	ZES 35/2 BG <b>3811.2</b>
Screwdriver SDB <b>Cat. no.</b>	SDB 0,4x2.0 <b>3164.0</b>	SDB 0,4x2.0 <b>3164.0</b>	SDB 0,4x2.0 <b>3164.0</b>
Quick marking PMC SB <b>Cat. no.</b>	PMC SB 5/50 WH <b>4600.7</b>	PMC SB 5/50 WH <b>4600.7</b>	PMC SB 5/50 WH <b>4600.7</b>

More accessories starting on page 264.

FDLIS B 2.5-4 3L/N/PE			FDLIS B 2.5-4 6L			FDLIS 2.5-4 6L/3PE				
										
Three-wire installation blocks			Three-wire installation blocks			Three-wire installation blocks				
<b>Pressure-spring system</b> 100 x 10.2 x 49			<b>Pressure-spring system</b> 100 x 15.3 x 49			<b>Pressure-spring system</b> 100 x 15.3 x 49				
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>				
FDLIS B 2.5-4 3L/N/PE <b>3250.2</b> 25			FDLIS B 2.5-4 6L <b>3251.2</b> 16			FDLIS 2.5-4 6L/3PE <b>3252.2</b> 16				
②			②			②				
<b>IEC</b>	<b>cCSAus</b>	<b>cCSAus</b>	<b>IEC</b>	<b>cCSAus</b>	<b>cCSAus</b>	<b>IEC</b>	<b>cCSAus</b>	<b>cCSAus</b>		
400	300	600	400	300	600	400	300	600		
32	25	5	32	25	5	32	25	5		
4   26-10			4   26-10			4   26-10				
6   3			6   3			6   3				
A3   V0			A3   V0			A3   V0				
0.2-4   -			0.2-4   -			0.2-4   -				
0.2-4   0.2-2.5			0.2-4   0.2-2.5			0.2-4   0.2-2.5				
0.2-4			0.2-4			0.2-4				
12			12			12				
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C				
2   -			2   -			2   -				
	<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>		
FAP 4/S BG			FAP 4/S BG			FAP 4/S BG				
<b>3480.2</b>	279	20	<b>3480.2</b>	279	20	<b>3480.2</b>	279	20		
FQI 2.5-4/2 YE			FQI 2.5-4/2 YE			FQI 2.5-4/2 YE				
<b>3492.8</b>	302	50	<b>3492.8</b>	302	50	<b>3492.8</b>	302	50		
FQI 2.5-4/3 YE			FQI 2.5-4/3 YE			FQI 2.5-4/3 YE				
<b>3493.8</b>	302	50	<b>3493.8</b>	302	50	<b>3493.8</b>	302	50		
FQI 2.5-4/4 YE			FQI 2.5-4/4 YE			FQI 2.5-4/4 YE				
<b>3494.8</b>	302	20	<b>3494.8</b>	302	20	<b>3494.8</b>	302	20		
FQI 2.5-4/5 YE			FQI 2.5-4/5 YE			FQI 2.5-4/5 YE				
<b>3495.8</b>	302	20	<b>3495.8</b>	302	20	<b>3495.8</b>	302	20		
FQI 2.5-4/6 YE			FQI 2.5-4/6 YE			FQI 2.5-4/6 YE				
<b>3496.8</b>	302	20	<b>3496.8</b>	302	20	<b>3496.8</b>	302	20		
FQI 2.5-4/7 YE			FQI 2.5-4/7 YE			FQI 2.5-4/7 YE				
<b>3497.8</b>	302	20	<b>3497.8</b>	302	20	<b>3497.8</b>	302	20		
FQI 2.5-4/8 YE			FQI 2.5-4/8 YE			FQI 2.5-4/8 YE				
<b>3498.8</b>	302	10	<b>3498.8</b>	302	10	<b>3498.8</b>	302	10		
FQI 2.5-4/9 YE			FQI 2.5-4/9 YE			FQI 2.5-4/9 YE				
<b>3499.8</b>	302	10	<b>3499.8</b>	302	10	<b>3499.8</b>	302	10		
FQI 2.5-4/10 YE			FQI 2.5-4/10 YE			FQI 2.5-4/10 YE				
<b>3490.8</b>	302	10	<b>3490.8</b>	302	10	<b>3490.8</b>	302	10		
ZES 35/2 BG			ZES 35/2 BG			ZES 35/2 BG				
<b>3811.2</b>	275	50	<b>3811.2</b>	275	50	<b>3811.2</b>	275	50		
SDB 0,4x2.0			SDB 0,4x2.0			SDB 0,4x2.0				
<b>3164.0</b>	422	1	<b>3164.0</b>	422	1	<b>3164.0</b>	422	1		
PMC SB 5/50 WH			PMC SB 5/50 WH			PMC SB 5/50 WH				
<b>4600.7</b>	339	500	<b>4600.7</b>	339	500	<b>4600.7</b>	339	500		

**Plug adapter for the FRK pressure-spring connection system in 5.08-mm pitch**

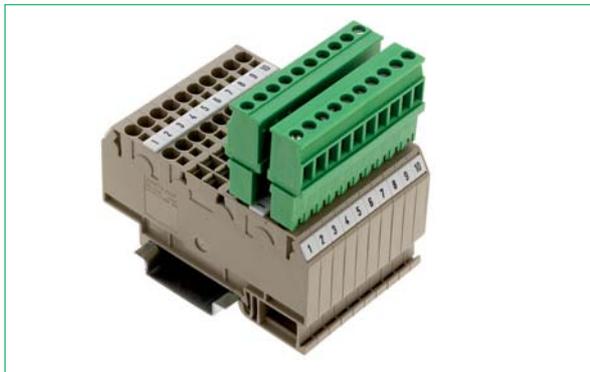
**CONTA-CONNECT together with CONTA-CON**



**FRK 2.5/2A combined with the STL 950/10/5.08-V-G-L**



**FRK 2.5/3A combined with the STL 950/10/5.08-V-G-L**



**FRK 2.5/4A combined with the STL 950/10/5.08-G-L**



**FRKD 2.5 combined with the STL 950/10/5.08-G-L**



**FTRK 2.5/2A MT combined with the STL 950/10/5.08-V-G-L**



**FRK 2.5/3A with the BW 10 actuating tool**

The standard **FRK 2.5**, **FRKD 2.5** and **FTRK2.5** pressure-spring terminals from the **CONTA-CONNECT** line can be retroactively converted to pluggable versions by using the **STL 950/.../5.08-V-G-L** male pin headers.

It is quick and easy to connect each connection level with the pin header.

The **BW** actuating tool (available in 1 to 10 poles) can be used to open up to ten springs simultaneously. This simplifies and accelerates the installation process.

The combination of the **FRK** pressure-spring technology and the **CONTA-CON** PCB connectors results in a dramatic reduc-

tion in expensive final-assembly overhead. It also enables quick replacements during maintenance and commissioning work. Coding without pole loss is possible with all combinations. (Refer to the coding section of the **CONTA-CON** Catalogue.)

Note: With voltage up to 42 V, connectors may only be plugged in or disconnected when under no load. When assembling the output side of the tension-spring terminals with **STL 950/.../5.08-V-G-L** pin headers, the rated voltage must not exceed 50 V since the live-voltage pin headers offer no touch-safe protection when unplugged.

# Plug adapter

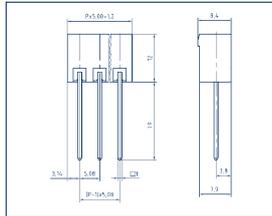
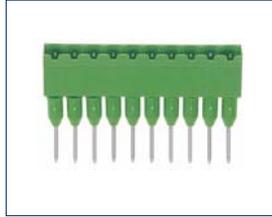
## Pressure-spring connection system



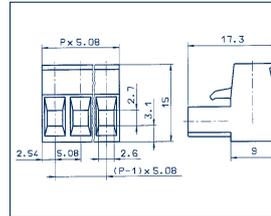
Housing made of polyamide PA6.6 V0  
Colour: green, RAL 6018

## Diagram

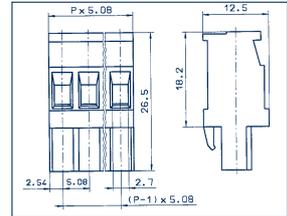
### STL 950/.../5.08-V-G-L / (FRK)



### PKB 950/.../5.08



### PKB 1100/.../5.08



## Dimensions

### Type

Cat. no.	Type colour	Poles
<b>Cat. no.</b>	Type colour	2 poles
<b>Cat. no.</b>	Type colour	3 poles
<b>Cat. no.</b>	Type colour	4 poles
<b>Cat. no.</b>	Type colour	5 poles
<b>Cat. no.</b>	Type colour	6 poles
<b>Cat. no.</b>	Type colour	7 poles
<b>Cat. no.</b>	Type colour	8 poles
<b>Cat. no.</b>	Type colour	9 poles
<b>Cat. no.</b>	Type colour	10 poles

Pole count x 5.08 + 1.2

### Qty.

STL 950/2/5.08-V-G-L GN (FRK)	<b>13871.1</b>	50
STL 950/3/5.08-V-G-L GN (FRK)	<b>13872.1</b>	50
STL 950/4/5.08-V-G-L GN (FRK)	<b>13873.1</b>	50
STL 950/5/5.08-V-G-L GN (FRK)	<b>13874.1</b>	50
STL 950/6/5.08-V-G-L GN (FRK)	<b>13875.1</b>	50
STL 950/7/5.08-V-G-L GN (FRK)	<b>13876.1</b>	50
STL 950/8/5.08-V-G-L GN (FRK)	<b>13877.1</b>	50
STL 950/9/5.08-V-G-L GN (FRK)	<b>13878.1</b>	50
STL 950/10/5.08-V-G-L GN (FRK)	<b>13879.1</b>	50

Pole count x 5.08

### Qty.

PKB 950/2/5.08 GN	<b>11230.1</b>	50
PKB 950/3/5.08 GN	<b>11231.1</b>	50
PKB 950/4/5.08 GN	<b>11232.1</b>	50
PKB 950/5/5.08 GN	<b>11233.1</b>	50
PKB 950/6/5.08 GN	<b>11234.1</b>	50
PKB 950/7/5.08 GN	<b>11235.1</b>	50
PKB 950/8/5.08 GN	<b>11236.1</b>	50
PKB 950/9/5.08 GN	<b>11237.1</b>	50
PKB 950/10/5.08 GN	<b>11238.1</b>	50

Pole count x 5.08

### Qty.

PKB 1100/2/5.08 GN	<b>11305.1</b>	50
PKB 1100/3/5.08 GN	<b>11306.1</b>	50
PKB 1100/4/5.08 GN	<b>11307.1</b>	50
PKB 1100/5/5.08 GN	<b>11308.1</b>	50
PKB 1100/6/5.08 GN	<b>11309.1</b>	50
PKB 1100/7/5.08 GN	<b>11310.1</b>	50
PKB 1100/8/5.08 GN	<b>11311.1</b>	50
PKB 1100/9/5.08 GN	<b>11312.1</b>	50
PKB 1100/10/5.08 GN	<b>11313.1</b>	50

## Colours available

### Ratings

Rated voltage, V	250	300	250
Rated current, A	12	15	12 (T60)
Rated wire cross-section, mm <sup>2</sup>   AWG	-	-	-
Rated impulse voltage, kV   Contamination degree	4   3	4   3	4   3
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	- I V0	- I V0	- I V0

### Connection data

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	-	0.2 - 2.5   -	0.2 - 2.5   -
stranded   stranded (with ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	-	0.2 - 2.5   0.2 - 2.5	0.2 - 2.5   0.2 - 2.5
Contact wire range, mm <sup>2</sup>	-	0.08 - 2.5	0.08 - 2.5
Stripping length, mm	-	6	7
Torque, Nm   Screw	-	0.5   Slotted M3	0.5   Slotted M3
Special connection	-	-	-

### Features

Material of insulated housing   Temperature range	PA 6.6   -30 to +105°C	PA 6.6   -30 to +105°C	PA 6.6   -30 to +105°C
Number of cross-connection channels   Test pick-off option	-	-	-

### Accessories

	Page	Qty.
Coding K	K2	
<b>Cat. no.</b>	<b>12003.9</b>	- 100
labelling card BK	BK 1-12/5.08	
<b>Cat. no.</b>	<b>2960.0</b>	- 10
labelling card BK	BK 13-24/5.08	
<b>Cat. no.</b>	<b>2961.0</b>	- 10
Dummy plug BLS	BLS-STL	
<b>Cat. no.</b>	<b>13284.1</b>	- 100

	Page	Qty.
Coding K	K1	
<b>Cat. no.</b>	<b>12002.9</b>	- 100
labelling card BK	BK 1-12/5.08	
<b>Cat. no.</b>	<b>2960.0</b>	- 10
labelling card BK	BK 13-24/5.08	
<b>Cat. no.</b>	<b>2961.0</b>	- 10

	Page	Qty.
Coding K	K1	
<b>Cat. no.</b>	<b>12002.9</b>	- 100
labelling card BK	BK 1-12/5.08	
<b>Cat. no.</b>	<b>2960.0</b>	- 10
labelling card BK	BK 13-24/5.08	
<b>Cat. no.</b>	<b>2961.0</b>	- 10

### For terminal

FRK 2.5/...
FSL 2.5/...
FRKD 2.5/...
FSLD 2.5
FTRK 2.5/...

More accessories starting on page 264.

# Plug adapter

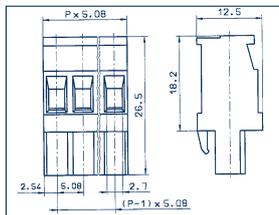
## Pressure-spring connection system



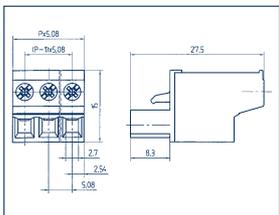
Housing made from polyamide PA 6.6 V0  
colour: green, RAL 6018

## Diagram

### PKB 1110/.../5.08



### PBT 1200/.../5.08



### BW/... (FRK)



## Dimensions

Type	
<b>Cat. no.</b>	
Type colour	2 poles
<b>Cat. no.</b>	
Type colour	3 poles
<b>Cat. no.</b>	
Type colour	4 poles
<b>Cat. no.</b>	
Type colour	5 poles
<b>Cat. no.</b>	
Type colour	6 poles
<b>Cat. no.</b>	
Type colour	7 poles
<b>Cat. no.</b>	
Type colour	8 poles
<b>Cat. no.</b>	
Type colour	9 poles
<b>Cat. no.</b>	
Type colour	10 poles

Pole count x 5.08

	Qty.
PKB 1110/2/5.08 GN	50
<b>11339.1</b>	
PKB 1110/3/5.08 GN	50
<b>11340.1</b>	
PKB 1110/4/5.08 GN	50
<b>11341.1</b>	
PKB 1110/5/5.08 GN	50
<b>11342.1</b>	
PKB 1110/6/5.08 GN	50
<b>11343.1</b>	
PKB 1110/7/5.08 GN	50
<b>11344.1</b>	
PKB 1110/8/5.08 GN	50
<b>11345.1</b>	
PKB 1110/9/5.08 GN	50
<b>11346.1</b>	
PKB 1110/10/5.08 GN	50
<b>11347.1</b>	

Pole count x 5.08

	Qty.
PBT 1200/2/5.08 GN	50
<b>11354.1</b>	
PBT 1200/3/5.08 GN	50
<b>11355.1</b>	
PBT 1200/4/5.08 GN	50
<b>11356.1</b>	
PBT 1200/5/5.08 GN	50
<b>11357.1</b>	
PBT 1200/6/5.08 GN	50
<b>11358.1</b>	
PBT 1200/7/5.08 GN	50
<b>11359.1</b>	
PBT 1200/8/5.08 GN	50
<b>11360.1</b>	
PBT 1200/9/5.08 GN	50
<b>11361.1</b>	
PBT 1200/10/5.08 GN	50
<b>11362.1</b>	

-

	Qty.
BW/2 (FRK)	1
<b>3832.0</b>	
BW/3 (FRK)	1
<b>3833.0</b>	
BW/4 (FRK)	1
<b>3834.0</b>	
BW/5 (FRK)	1
<b>3835.0</b>	
BW/6 (FRK)	1
<b>3836.0</b>	
BW/7 (FRK)	1
<b>3787.0</b>	
BW/8 (FRK)	1
<b>3788.0</b>	
BW/9 (FRK)	1
<b>3789.0</b>	
BW/10 (FRK)	1
<b>3790.0</b>	

## Colours available

### Ratings

Rated voltage, V	250
Rated current, A	12 15 12 (T60)
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   22-12
Rated impulse voltage, kV   Contamination degree	4   3
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	-   V0

### Connection data

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.2 - 2.5   -
stranded   stranded (with ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2 - 2.5   0.2 - 2.5
Contact wire range, mm <sup>2</sup>	0.08 - 2.5
Stripping length, mm	7
Torque, Nm   Screw	0.5   Slotted M3
Special connection	-

### Features

Material of insulated housing   Temperature range	PA 6.6   -30 to +105°C
Number of cross-connection channels   Test pick-off option	-

### Accessories

	Page	Qty.
Coding K		
<b>Cat. no.</b>		
labelling card BK		100
<b>2960.0</b>		
labelling card BK		10
<b>2961.0</b>		
Dummy plug BLS		10
<b>Cat. no.</b>		

### For terminal

### 1

IEC	UL	VDE
250	300	250
	12 15 12 (T60)	
-	2.5   22-12	-
	4   3	
	-   V0	

	0.2 - 2.5   -
	0.2 - 2.5   0.2 - 2.5
	0.08 - 2.5
	7
	0.5   Slotted M3
	-

	PA 6.6   -30 to +105°C
	-

	Page	Qty.
K2		
<b>12003.9</b>		100
BK 1-12/5.08		
<b>2960.0</b>		10
BK 13-24/5.08		
<b>2961.0</b>		10

### 1

IEC	UL	VDE
250	300	250
	12 15 12 (T60)	
-	2.5   22-12	-
	4   3	
	-   V0	

	0.2 - 2.5   -
	0.2 - 2.5   0.2 - 2.5
	0.08 - 2.5
	10
	0.5   Slotted M2.5
	-

	PA 6.6   -30 to +105°C
	-

	Page	Qty.
K1		
<b>12002.9</b>		100
BK 1-12/5.08		
<b>2960.0</b>		10
BK 13-24/5.08		
<b>2961.0</b>		10

### 1

IEC	UL	VDE
250	300	250
	12 15 12 (T60)	
-	2.5   22-12	-
	4   3	
	-   V0	

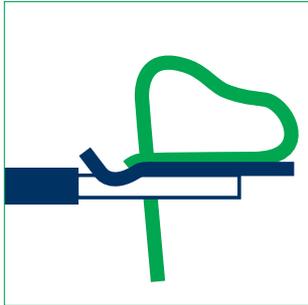
	0.2 - 2.5   -
	0.2 - 2.5   0.2 - 2.5
	0.08 - 2.5
	10
	0.5   Slotted M2.5
	-

	PA 6.6   -30 to +105°C
	-

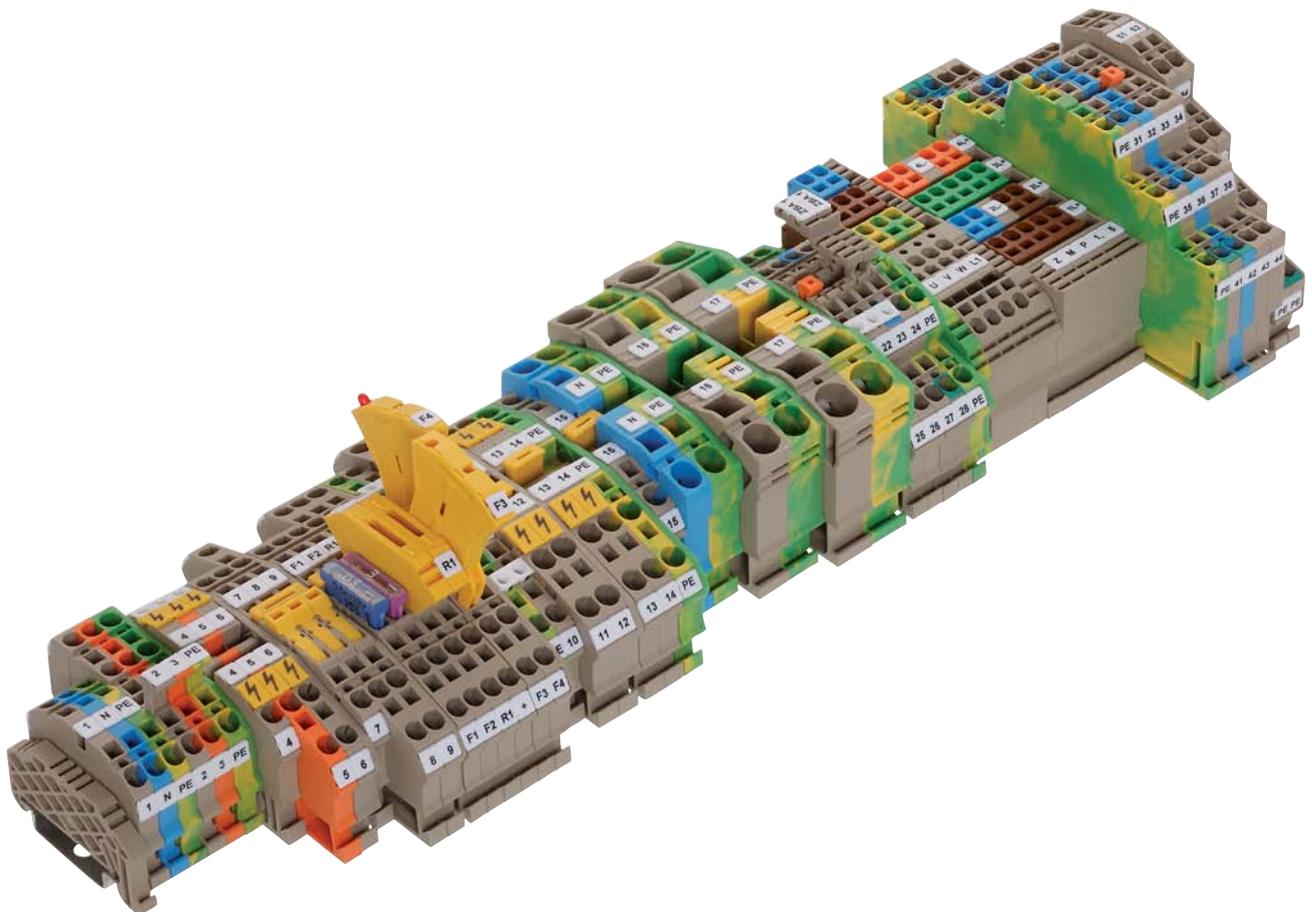
	Page	Qty.
K1		
<b>12002.9</b>		100
BK 1-12/5.08		
<b>2960.0</b>		10
BK 13-24/5.08		
<b>2961.0</b>		10



**Tension-spring connection system ZRK | ZSL** *Proven – Safe – Reliable*



**CONTA-CLIP** offers an innovative product line featuring the proven tension-spring connection system for the smallest cross-sections ranging from 0.2 mm<sup>2</sup> to 16 mm<sup>2</sup>. This includes feed-through and protective-earth terminal, disconnect terminals, fused terminals, actuator terminals, sensor terminals, motor-connection terminals and direct-mounting terminals. The tension-spring top mechanism provides safe and quick connections for solid and stranded wires, with or without wire-end ferrules. The protective-earth terminals feature a PE foot contact that is snapped on, ensuring mechanical and electrical safety. The PE foot contact is on both sides of the PE terminals and can be snapped on to the DIN rail with no screws. Our well-designed line of accessories allows you to significantly reduce your installation and storage costs. You can multiply voltage potentials horizontally or vertically with the ZQI and ZVQI pluggable potential distribution systems. All of the insulating materials used in this product line are free of pollutants. They also comply with flammability class V0 (self-extinguishing) according to UL 94.



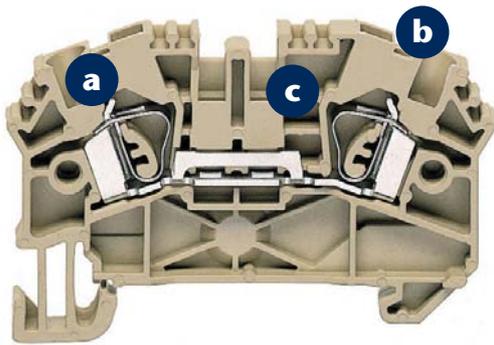
# Tension-spring connection system ZRK | ZSL

## Features

### a The connection | Secure contact

The tension-spring at the wire connection is held securely by the positioned busbar.

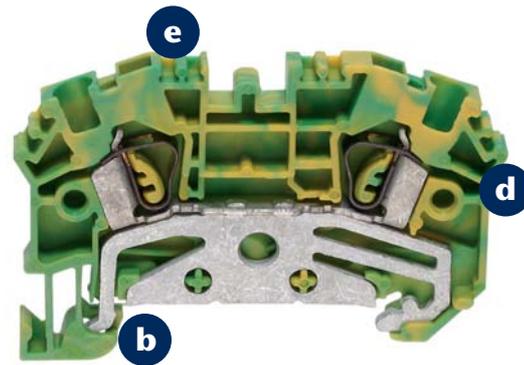
- The stainless steel spring provides permanent contact force between the wire and the busbar
- Clear separation of electrical and mechanical functions
- The busbars are made from copper with surface coating (tin)
- Resistant to vibration and maintenance-free
- Corrosion-free
- Space-saving design
- Foot base can be snapped on TS 35 DIN rail



### b Quick and easy to wire

Less time spent wiring thanks to the easy-to-operate tension-spring connection mechanism.

- Easy to work with
- Easy to operate, even under cramped working conditions, because of the TOP connection
- Generous wire-entry geometry
- Saves time and money
- PE foot contact on both sides – can be snapped on (no screws) to **TS 35x7.5** and **TS 35x15** rails



### c Pluggable cross-connection options



Distributing potentials with the pluggable **ZQI** cross-connection system is quick and easy. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>.

- Available in 2 – 10 and 99 poles (for custom assemblies)
- Simple to insert and thus quicker to install
- No insulation plate or partition plate is required between a neighbouring cross-connection, since the ZQI has a touch-safe protective design
- Cross-connection can carry the full rated current and voltage of the corresponding terminal block
- Individual terminals can be skipped over by breaking out contact pins in the cross-connector

### d Housing insulation material

- Polyamide PA6.6 UL 94, flamm. class V0, self-extinguishing without burning drops
- Free of hazardous materials such as halogen or phosphor
- Creepage resistance: CTI 600
- Operating temperature from -40°C to +120°C

### e Marking options

Marking options are available for the standard terminals in 2.5 mm<sup>2</sup> to 16 mm<sup>2</sup>.

## Tension-spring connection system ZRK | ZSL

### An overview of the advantages

#### Less wiring time | Compact shape

The tension-spring connect system – thanks to its TOP connection and compact shape – provides an advantage when wiring in cramped working conditions.



#### More spacious connection space

The larger connection space offered by the ZRK | ZSL tension-clamp terminals speeds up wiring for solid or stranded wires with or without wire-end ferrules. The rated cross-sections specified in our documentation correspond to a connection with stranded wires using wire-end ferrules. It is also possible to use solid wires up to the next larger cross-section size.



#### Cross-connection system

The standard feed-through terminals in 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> feature two cross-connection channels. So the two-pole **ZQI.../2** cross-connectors can be used to connect any number of terminals with each other.



#### Distributing potentials

The cross-connectors are available from 2 to 10 poles and with 99 poles. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>.



#### Skip-over bridging

It is possible to skip over terminal blocks by breaking out individual contact poles. You can mark these broken-off contact elements using the plastic insulation of the cross-connector.



#### Power feed with small cross-sections

With tension-spring terminals of larger cross-sections, standard cross-connectors can connect to a single terminal of the next size up for the power feed-in. The ZQI cross-connection system can carry the rated voltage and rated current.



## Tension-spring connection system ZRK | ZSL

### An overview of the advantages

#### Vertical connection for multi-level terminals

The different levels of the double-level and triple-level terminals can be connected electrically using a vertical connector.



#### Labelling

High-quality, quick and concise labelling is possible when using the **PMC SB**, **PMC BSTR** or **MC** labelling systems. The standard terminals feature up to four labelling channels.



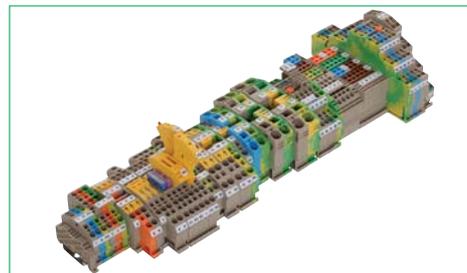
#### Additional marking options

In addition to the standard holder in the terminal housing, you can also label the multi-level terminals. The **ZBA** labelling adapter can be attached to the middle of the terminal housing – even when the terminal is wired up.



#### An effective and comprehensive range

The feed-through and PE terminals with cross-sections of 2.5 mm<sup>2</sup> to 4 mm<sup>2</sup> are available in two-wire, three-wire and four-wire versions. The product line also includes standard terminals and functional terminals including fused terminals, initiator terminals, disconnect terminals and direct-mounting terminals.



#### Testing assembled terminal blocks

The ZTA test adapters can be assembled to any pole counts using the locking pegs. They can be used to test assembled terminal block strips in a quick and safe manner. Wire cross-sections ranging from 0.5 mm<sup>2</sup> to 1 mm<sup>2</sup> can be connected. Each tension-clamp terminal has a corresponding test point for establishing contact to the potential voltage on the busbar.



#### A comprehensive line of accessories

is available starting at page 264.

- DIN rails
- Mechanical attachment | end stop
- Group marker holders
- End plates | Visual separation
- Cross-connections (Potential distribution)
- Covers
- Reducing sleeves
- Test adapters



ZSLN 2,5/3A/15	ZSRK 2,5/2A	ZSLN 2,5/2A	ZSRK 2,5/3A	ZSLN 2,5/3A
Protective earth terminal 3 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 3 connections	Protective earth terminal 3 connections
<b>Tension-spring</b> 52.5 x 5.1 x 34 (44)	<b>Tension-spring</b> 43.5 x 5.1 x 36.5	<b>Tension-spring</b> 43.5 x 5.1 x 36.5	<b>Tension-spring</b> 55 x 5.1 x 36.5 (46.5)	<b>Tension-spring</b> 55 x 5.1 x 36.5 (46.5)
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
ZSLN 2,5/3A/15 GNYE <b>3601.2</b> 100	ZSRK 2,5/2A BG <b>3583.2</b> 100 ZSRK 2,5/2A BU <b>3583.5</b> 100 ZSRK 2,5/2A OG <b>3583.3</b> 100	ZSLN 2,5/2A GNYE <b>3584.2</b> 100	ZSRK 2,5/3A BG <b>3600.2</b> 100 ZSRK 2,5/3A BU <b>3600.5</b> 100 ZSRK 2,5/3A OG <b>3600.3</b> 100	ZSLN 2,5/3A GNYE <b>3602.2</b> 100
<b>2</b>	<b>2 5 3 1 8 9</b>	<b>2</b>	<b>2 5 3 1 8 9</b>	<b>2</b>
<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>
800 300 300	800 300 300	800 300 300	800 300 300	800 300 300
24 20 20	24 20 20	24 20 20	24 20 20	24 20 20
2.5   20-12	2.5   20-12	2.5   20-12	2.5   20-12	2.5   20-12
8   3	8   3	8   3	8   3	8   3
A3   VO	A3   VO	A3   VO	A3   VO	A3   VO
0.5-4   -	0.5-4   -	0.5-4   -	0.5-4   -	0.5-4   -
0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5
0.08-4	0.08-4	0.08-4	0.08-4	0.08-4
10	10	10	10	10
PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
1   2	1   2	1   2	1   2	1   2
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
ZAP SR 3A/15 GN <b>3794.1</b> 280 50	ZAP SR BG <b>3757.2</b> 280 50 ZQI 2,5/2 YE <b>3710.8</b> 308 50 ZQI 2,5/3 YE <b>3711.8</b> 308 50 ZQI 2,5/4 YE <b>3712.8</b> 308 20 ZQI 2,5/5 YE <b>3713.8</b> 308 20 ZQI 2,5/6 YE <b>3714.8</b> 308 20 ZQI 2,5/7 YE <b>3715.8</b> 308 20 ZQI 2,5/8 YE <b>3716.8/</b> 308 10 ZQI 2,5/9 YE <b>3717.8</b> 308 10 ZQI 2,5/10 YE <b>3718.8</b> 308 10 ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZAP SR GN <b>3757.1</b> 280 50	ZAP SR 3A/35 BG <b>3795.2</b> 280 50 ZQI 2,5/2 YE <b>3710.8</b> 308 50 ZQI 2,5/3 YE <b>3711.8</b> 308 50 ZQI 2,5/4 YE <b>3712.8</b> 308 20 ZQI 2,5/5 YE <b>3713.8</b> 308 20 ZQI 2,5/6 YE <b>3714.8</b> 308 20 ZQI 2,5/7 YE <b>3715.8</b> 308 20 ZQI 2,5/8 YE <b>3716.8/</b> 308 10 ZQI 2,5/9 YE <b>3717.8</b> 308 10 ZQI 2,5/10 YE <b>3718.8</b> 308 10 ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZAP SR 3A/35 GN <b>3795.1</b> 280 50
ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20
ZES 15 BG <b>3812.2</b> 275 50	ZES 35/2 BG <b>3811.2</b> 275 50	ZES 35/2 BG <b>3811.2</b> 275 50	ZES 35/2 BG <b>3811.2</b> 275 50	ZES 35/2 BG <b>3811.2</b> 275 50
ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10
BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1
PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500

Feed-through terminals ZRK | Protective earth terminals ZSL

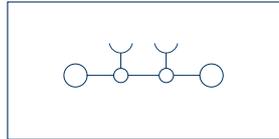
Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

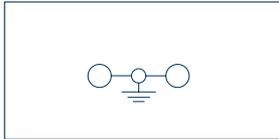
Connection diagram

ZRK 2,5/2A



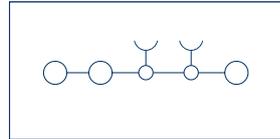
Feed-through terminal  
2 connections

ZSL 2,5/2A



Protective earth terminal  
2 connections

ZRK 2,5/3A



Feed-through terminal  
3 connections

Connection type  
Size (L x W x H) with TS 35 x 7.5 mm

Tension-spring  
59 x 5.1 x 39

Tension-spring  
59 x 5.1 x 39

Tension-spring  
71,3 x 5.1 x 39

Type

Type colour	ZRK 2,5/2A BG	Qty.	100
Cat. no.	<b>3500.2</b>		
Type colour	ZRK 2,5/2A BU	Qty.	100
Cat. no.	<b>3500.5</b>		
Type colour	ZRK 2,5/2A OG	Qty.	100
Cat. no.	<b>3500.3</b>		
Type colour			
Cat. no.			
Colours available			

Type colour	ZSL 2,5/2A GNYE	Qty.	100
Cat. no.	<b>3510.2</b>		

Type colour	ZRK 2,5/3A BG	Qty.	100
Cat. no.	<b>3501.2</b>		
Type colour	ZRK 2,5/3A BU	Qty.	100
Cat. no.	<b>3501.5</b>		
Type colour	ZRK 2,5/3A OG	Qty.	100
Cat. no.	<b>3501.3</b>		

Type colour			
Cat. no.			
Colours available			

Ratings

Rated voltage, V	800	600	600
Rated current, A	24	27	27
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   20-12		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0		

Rated voltage, V	800	600	600
Rated current, A	24	27	27
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   20-12		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0		

Rated voltage, V	800	600	600
Rated current, A	24	27	27
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   20-12		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0		

Rated voltage, V	800	600	600
Rated current, A	24	27	27
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   20-12		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0		

Connection data

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-4   0.5-2.5
Contact wire range, mm <sup>2</sup>	0.08-4
Stripping length, mm	10

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-4   0.5-2.5
Contact wire range, mm <sup>2</sup>	0.08-4
Stripping length, mm	10

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-4   0.5-2.5
Contact wire range, mm <sup>2</sup>	0.08-4
Stripping length, mm	10

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-4   0.5-2.5
Contact wire range, mm <sup>2</sup>	0.08-4
Stripping length, mm	10

Features

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +120°C  
2 | 2

PA 6.6 | -40 to +120°C  
0 | 2

PA 6.6 | -40 to +120°C  
2 | 2

Accessories

End plate AP	ZAP 2,5/2A BG	Page	Qty.	280	50
Cat. no.	<b>3700.2</b>				
Insulated cross-connector ZQI	ZQI 2,5/2 YE	Page	Qty.	308	50
Cat. no.	<b>3710.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/3 YE	Page	Qty.	308	50
Cat. no.	<b>3711.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/4 YE	Page	Qty.	308	20
Cat. no.	<b>3712.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/5 YE	Page	Qty.	308	20
Cat. no.	<b>3713.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/6 YE	Page	Qty.	308	20
Cat. no.	<b>3714.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/7 YE	Page	Qty.	308	20
Cat. no.	<b>3715.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/8 YE	Page	Qty.	308	10
Cat. no.	<b>3716.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/9 YE	Page	Qty.	308	10
Cat. no.	<b>3717.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/10 YE	Page	Qty.	308	10
Cat. no.	<b>3718.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/0.5 m/99 poles YE	Page	Qty.	308	1
Cat. no.	<b>3719.8</b>				
Four-way cover ZAD	ZAD 2,5/4/B YE	Page	Qty.	315	20
Cat. no.	<b>3706.0</b>				
End stop ZES	ZES 35 BG	Page	Qty.	275	50
Cat. no.	<b>3748.2</b>				
Test adapter ZTA	ZTA 2,5	Page	Qty.	320	10
Cat. no.	<b>3740.2</b>				
Screwdriver / Metal actuating tool BWMA	BWMA 1	Page	Qty.	328	1
Cat. no.	<b>3808.0</b>				
Quick marking PMC SB	PMC SB 5/50 WH	Page	Qty.	339	500
Cat. no.	<b>4600.7</b>				

End plate AP	ZAP 2,5/2A GN	Page	Qty.	280	50
Cat. no.	<b>3700.1</b>				

End plate AP	ZAP 2,5/3A BG	Page	Qty.	280	50
Cat. no.	<b>3701.2</b>				
Insulated cross-connector ZQI	ZQI 2,5/2 YE	Page	Qty.	308	50
Cat. no.	<b>3710.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/3 YE	Page	Qty.	308	50
Cat. no.	<b>3711.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/4 YE	Page	Qty.	308	20
Cat. no.	<b>3712.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/5 YE	Page	Qty.	308	20
Cat. no.	<b>3713.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/6 YE	Page	Qty.	308	20
Cat. no.	<b>3714.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/7 YE	Page	Qty.	308	20
Cat. no.	<b>3715.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/8 YE	Page	Qty.	308	10
Cat. no.	<b>3716.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/9 YE	Page	Qty.	308	10
Cat. no.	<b>3717.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/10 YE	Page	Qty.	308	10
Cat. no.	<b>3718.8</b>				
Insulated cross-connector ZQI	ZQI 2,5/0.5 m/99 poles YE	Page	Qty.	308	1
Cat. no.	<b>3719.8</b>				
Four-way cover ZAD	ZAD 2,5/4/B YE	Page	Qty.	315	20
Cat. no.	<b>3706.0</b>				
End stop ZES	ZES 35 BG	Page	Qty.	275	50
Cat. no.	<b>3748.2</b>				
Test adapter ZTA	ZTA 2,5	Page	Qty.	320	10
Cat. no.	<b>3740.2</b>				
Screwdriver / Metal actuating tool BWMA	BWMA 1	Page	Qty.	328	1
Cat. no.	<b>3808.0</b>				
Quick marking PMC SB	PMC SB 5/50 WH	Page	Qty.	339	500
Cat. no.	<b>4600.7</b>				

End plate AP	ZAP 2,5/3A GN	Page	Qty.	280	50
Cat. no.	<b>3700.1</b>				

ZSL 2,5/3A	ZRK 2,5/4A	ZSL 2,5/4A	ZRK 2,5/2x2A	
Protective earth terminal 3 connections	Feed-through terminal 4 connections	Protective earth terminal 4 connections	Feed-through terminal 2 x 2 connections	
<b>Tension-spring</b> 71.3 x 5.1 x 39	<b>Tension-spring</b> 83.6 x 5.1 x 39	<b>Tension-spring</b> 83.6 x 5.1 x 39	<b>Tension-spring</b> 83.6 x 5.1 x 39	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZSL 2,5/3A GNYE <b>3511.2</b> 100	ZRK 2,5/4A BG <b>3502.2</b> 100 ZRK 2,5/4A BU <b>3502.5</b> 100 ZRK 2,5/4A OG <b>3502.3</b> 100	ZSL 2,5/4A GNYE <b>3512.2</b> 100	ZRK 2,5/2x2A BG <b>3503.2</b> 100 ZRK 2,5/2x2A BU <b>3503.5</b> 100 ZRK 2,5/2x2A OG <b>3503.3</b> 100	
<b>2</b>	<b>2 5 3 1</b>	<b>2</b>	<b>2 5 3</b>	
<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	
800 600 600	800 600 600	800 600 600	800 600 600	
24 27 27	24 27 27	24 27 27	24 27 27	
2.5   20-12	2.5   20-12	2.5   20-12	2.5   20-12	
8   3	8   3	8   3	8   3	
A3   V0	A3   V0	A3   V0	A3   V0	
0.5-4   -	0.5-4   -	0.5-4   -	0.5-4   -	
0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5	
0.08-4	0.08-4	0.08-4	0.08-4	
10	10	10	10	
PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	
0   2	2   2	0   2	0   2	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
ZAP 2,5/3A GN <b>3701.1</b> 280 50	ZAP 2,5/4A BG <b>3702.2</b> 280 50 ZQI 2,5/2 YE <b>3710.8</b> 308 50 ZQI 2,5/3 YE <b>3711.8</b> 308 50 ZQI 2,5/4 YE <b>3712.8</b> 308 20 ZQI 2,5/5 YE <b>3713.8</b> 308 20 ZQI 2,5/6 YE <b>3714.8</b> 308 20 ZQI 2,5/7 YE <b>3715.8</b> 308 20 ZQI 2,5/8 YE <b>3716.8</b> 308 10 ZQI 2,5/9 YE <b>3717.8</b> 308 10 ZQI 2,5/10 YE <b>3718.8</b> 308 10 ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZAP 2,5/4A GN <b>3702.1</b> 280 50	ZAP 2,5/4A BG <b>3702.2</b> 280 50	
ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	
ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	
BWMA 1 <b>3808.0</b> 328 1	BWMA 1 <b>3808.0</b> 328 1	BWMA 1 <b>3808.0</b> 328 1	BWMA 1 <b>3808.0</b> 328 1	
PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	

## Feed-through terminals with electronic components ZRK

### Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

### Connection diagram



Diode terminal  
2 x 2 connections



Diode terminal  
2 x 2 connections



LED indicator terminal  
2 x 2 connections

### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

### Tension-spring

83.6 x 5.1 x 39

### Tension-spring

83.6 x 5.1 x 39

### Tension-spring

83.6 x 5.1 x 39

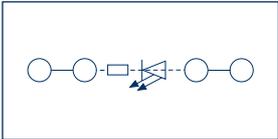
	Qty.	Qty.	Qty.
Type colour	ZRK 2,5/2x2A/D1 BG	ZRK 2,5/2x2A/D2 BG	ZRK 2,5/2x2A/LED1(RD)/24V DC BG
<b>Cat. no.</b>	<b>3504.2</b>	<b>3542.2</b>	<b>3505.2</b>
Type colour			
<b>Cat. no.</b>			
Type colour			
<b>Cat. no.</b>			
Type colour			
<b>Cat. no.</b>			
Colours available			

Ratings	IEC	CSAus	CSA	IEC	CSAus	CSA	IEC	CSAus	CSA
Rated voltage, V	800	600	600	800	600	600		24	
Rated current, A	24	27	27	24	27	27		< 5 mA	
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   20-12			2.5   20-12			2.5   20-12		
Rated impulse voltage, kV   Contamination degree	8   3			8   3			8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0			A3   V0			A3   V0		
Connection data									
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-4   -			0.5-4   -			0.5-4   -		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5		
Contact wire range, mm <sup>2</sup>	0.08-4			0.08-4			0.08-4		
Stripping length, mm	10			10			10		
Diode	1N4007			1N4007			red LED		
	Reverse voltage 1000V   Current 1A			Reverse voltage 1000V   Current 1A			Current via LED < 5 mA		

Features			
Material of insulated housing   Temperature range	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
Number of cross-connection channels   Test pick-off	1   2	1   2	1   2

Accessories	Page	Qty.	Page	Qty.	Page	Qty.
End plate AP	ZAP 2,5/4A BG	280	50	ZAP 2,5/4A BG	280	50
<b>Cat. no.</b>	<b>3702.2</b>			<b>3702.2</b>		
Four-way cover ZAD	ZAD 2.5/4/B YE	315	20	ZAD 2.5/4/B YE	315	20
<b>Cat. no.</b>	<b>3706.0</b>			<b>3706.0</b>		
End stop ZES	ZES 35 BG	275	50	ZES 35 BG	275	50
<b>Cat. no.</b>	<b>3748.2</b>			<b>3748.2</b>		
Test adapter ZTA	ZTA 2,5	320	10	ZTA 2,5	320	10
<b>Cat. no.</b>	<b>3740.2</b>			<b>3740.2</b>		
Screwdriver / Metal actuating tool BWMA	BWMA 1	328	1	BWMA 1	328	1
<b>Cat. no.</b>	<b>3808.0</b>			<b>3808.0</b>		
Quick marking PMC SB	PMC SB 5/50 WH	339	500	PMC SB 5/50 WH	339	500
<b>Cat. no.</b>	<b>4600.7</b>			<b>4600.7</b>		

**ZRK 2,5/2x2A/LED2**



LED indicator terminal  
2 x 2 connections

**Tension-spring**  
83.6 x 5.1 x 39

**Qty.**  
ZRK 2,5/2x2A/LED2(RD)/24V DC BG  
**3543.2** 100

**IEC**    **CSAus**    **CSA**  
24

< 5 mA

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

red LED

Current via LED < 5 mA

PA 6.6 | -40 to +120°C

1 | 2

**Page Qty.**

ZAP 2,5/4A BG  
**3702.2** 280 50

ZAD 2.5/4/B YE  
**3706.0** 315 20

ZES 35 BG  
**3748.2** 275 50

ZTA 2,5  
**3740.2** 320 10

BWMA 1  
**3808.0** 328 1

PMC SB 5/50 WH  
**4600.7** 339 500

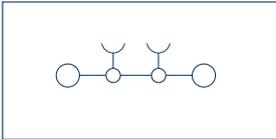
Feed-through terminals ZRK | Protective earth terminals ZSL

**Tension-spring connection system**

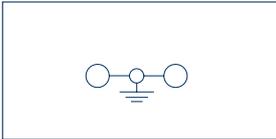


- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

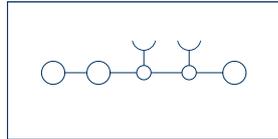
**Connection diagram**



Feed-through terminal  
2 connections

Protective earth terminal  
2 connections

Feed-through terminal  
3 connections

Connection type
Size (L x W x H) with TS 35 x 7.5 mm

Tension-spring
64 x 6.1 x 42

Tension-spring
64 x 6.1 x 42

Tension-spring
78.5 x 6.1 x 42

Type
Type colour
<b>Cat. no.</b>
Colours available

	Qty.
ZRK 4/2A BG	
<b>3515.2</b>	100
ZRK 4/2A BU	
<b>3515.5</b>	100
ZRK 4/2A OG	
<b>3515.3</b>	100

	Qty.
ZSL 4/2A GNYE	
<b>3525.2</b>	100

	Qty.
ZRK 4/3A BG	
<b>3516.2</b>	100
ZRK 4/3A BU	
<b>3516.5</b>	100
ZRK 4/3A OG	
<b>3516.3</b>	100

Ratings
Rated voltage, V
Rated current, A
Rated wire cross-section, mm <sup>2</sup>   AWG
Rated impulse voltage, kV   Contamination degree
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94

IEC	CSAus	CSA
800	600	600
32	35	35
4   20-10		
8   3		
A4   V0		

IEC	CSAus	CSA
800	600	600
32	35	35
4   20-10		
8   3		
A4   V0		

IEC	CSAus	CSA
800	600	600
32	35	35
4   20-10		
8   3		
A4   V0		

Connection data
Single wire (solid)   stranded (stranded) mm <sup>2</sup>
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>
Contact wire range, mm <sup>2</sup>
Stripping length, mm

0.5-6   -
0.6-6   0.5-4
0.08-6
12

0.5-6   -
0.6-6   0.5-4
0.08-6
12

0.5-6   -
0.6-6   0.5-4
0.08-6
12

Features
Material of insulated housing   Temperature range
Number of cross-connection channels   Test pick-off

PA 6.6   -40 to +120°C
2   2

PA 6.6   -40 to +120°C
0   2

PA 6.6   -40 to +120°C
2   2

Accessories	Page	Qty.
End plate AP		
<b>Cat. no.</b>		
Insulated cross-connector ZQI		
<b>Cat. no.</b>	2 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	3 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	4 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	5 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	6 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	7 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	8 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	9 poles	
Insulated cross-connector ZQI		
<b>Cat. no.</b>	10 poles	
Four-way cover ZAD		
<b>Cat. no.</b>		
End stop ZES		
<b>Cat. no.</b>		
Test adapter ZTA		
<b>Cat. no.</b>		
Screwdriver / Metal actuating tool BWMA		
<b>Cat. no.</b>		
Quick marking PMC SB		
<b>Cat. no.</b>		

ZAP 4/2A BG		
<b>3703.2</b>	280	50
ZQI 4/2 YE		
<b>3720.8</b>	308	50
ZQI 4/3 YE		
<b>3721.8</b>	308	50
ZQI 4/4 YE		
<b>3722.8</b>	308	20
ZQI 4/5 YE		
<b>3723.8</b>	308	20
ZQI 4/6 YE		
<b>3724.8</b>	308	20
ZQI 4/7 YE		
<b>3725.8</b>	308	20
ZQI 4/8 YE		
<b>3726.8</b>	308	10
ZQI 4/9 YE		
<b>3727.8</b>	308	10
ZQI 4/10 YE		
<b>3728.8</b>	308	10
ZAD 4/4/B YE		
<b>3707.0</b>	315	20
ZES 35 BG		
<b>3748.2</b>	275	50
ZTA 4		
<b>3741.2</b>	320	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

ZAP 4/2A GN		
<b>3703.1</b>	280	50
ZAD 4/4/B YE		
<b>3707.0</b>	315	20
ZES 35 BG		
<b>3748.2</b>	275	50
ZTA 4		
<b>3741.2</b>	320	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

ZAP 4/3A BG		
<b>3704.2</b>	280	50
ZQI 4/2 YE		
<b>3720.8</b>	308	50
ZQI 4/3 YE		
<b>3721.8</b>	308	50
ZQI 4/4 YE		
<b>3722.8</b>	308	20
ZQI 4/5 YE		
<b>3723.8</b>	308	20
ZQI 4/6 YE		
<b>3724.8</b>	308	20
ZQI 4/7 YE		
<b>3725.8</b>	308	20
ZQI 4/8 YE		
<b>3726.8</b>	308	10
ZQI 4/9 YE		
<b>3727.8</b>	308	10
ZQI 4/10 YE		
<b>3728.8</b>	308	10
ZAD 4/4/B YE		
<b>3707.0</b>	315	20
ZES 35 BG		
<b>3748.2</b>	275	50
ZTA 4		
<b>3741.2</b>	320	10
SDB 0.6x3.5		
<b>1086.0</b>	422	1
PMC SB 6/50 WH		
<b>4702.7</b>	340	500

ZSL 4/3A	ZRK 4/4A	ZSL 4/4A	ZRK 4/2x2A	
Protective earth terminal 3 connections	Feed-through terminal 4 connections	Protective earth terminal 4 connections	Feed-through terminal 2 x 2 connections	
<b>Tension-spring</b> 78.5 x 6.1 x 42	<b>Tension-spring</b> 93 x 6.1 x 42	<b>Tension-spring</b> 93 x 6.1 x 42	<b>Tension-spring</b> 93 x 6.1 x 42	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZSL 4/3A GNYE <b>3526.2</b> 100	ZRK 4/4A BG <b>3517.2</b> 100 ZRK 4/4A BU <b>3517.5</b> 100 ZRK 4/4A OG <b>3517.3</b> 100	ZSL 4/4A GNYE <b>3527.2</b> 100	ZRK 4/2x2A BG <b>3518.2</b> 100 ZRK 4/2x2A BU <b>3518.5</b> 100 ZRK 4/2x2A OG <b>3518.3</b> 100	

IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	
800 600 600	800 600 600	800 600 600	800 600 600	
32 35 35	32 35 35	32 35 35	32 35 35	
4   20-10	4   20-10	4   20-10	4   20-10	
8   3	8   3	8   3	8   3	
A4   VO	A4   VO	A4   VO	A4   VO	
0.5-6   -	0.5-6   -	0.5-6   -	0.5-6   -	
0.6-6   0.5-4	0.6-6   0.5-4	0.6-6   0.5-4	0.6-6   0.5-4	
0.08-6	0.08-6	0.08-6	0.08-6	
12	12	12	12	

PA 6.6   -40 to +120°C 0   2	PA 6.6   -40 to +120°C 2   2	PA 6.6   -40 to +120°C 0   2	PA 6.6   -40 to +120°C 0   2	
Page Qty.	Page Qty.	Page Qty.	Page Qty.	
ZAP 4/3A GN <b>3704.1</b> 280 50	ZAP 4/4A BG <b>3705.2</b> 280 50 ZQI 4/2 YE <b>3720.8</b> 308 50 ZQI 4/3 YE <b>3721.8</b> 308 50 ZQI 4/4 YE <b>3722.8</b> 308 20 ZQI 4/5 YE <b>3723.8</b> 308 20 ZQI 4/6 YE <b>3724.8</b> 308 20 ZQI 4/7 YE <b>3725.8</b> 308 20 ZQI 4/8 YE <b>3726.8</b> 308 10 ZQI 4/9 YE <b>3727.8</b> 308 10 ZQI 4/10 YE <b>3728.8</b> 308 10	ZAP 4/4A GN <b>3705.1</b> 280 50	ZAP 4/4A BG <b>3705.2</b> 280 50	
ZAD 4/4/B YE <b>3707.0</b> 315 20	ZAD 4/4/B YE <b>3707.0</b> 315 20	ZAD 4/4/B YE <b>3707.0</b> 315 20	ZAD 4/4/B YE <b>3707.0</b> 315 20	
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	
ZTA 4 <b>3741.2</b> 320 10	ZTA 4 <b>3741.2</b> 320 10	ZTA 4 <b>3741.2</b> 320 10	ZTA 4 <b>3741.2</b> 320 10	
SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	
PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	

## Feed-through terminals ZRK | Protective earth terminals ZSL

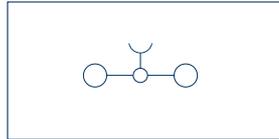
### Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

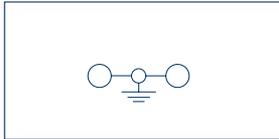
### Connection diagram

#### ZRK 6/2A



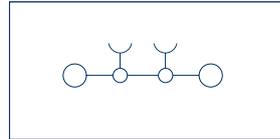
Feed-through terminal  
2 connections

#### ZSL 6/2A



Protective earth terminal  
2 connections

#### ZRK 10/2A



Feed-through terminal  
2 connections

### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

**Tension-spring**  
65 x 8.1 x 47.5

**Tension-spring**  
65 x 8.1 x 47.5

**Tension-spring**  
73.5 x 10.1 x 50,5

### Type

Type colour	ZRK 6/2A BG	<b>3581.2</b>	100
Type colour	ZRK 6/2A BU	<b>3581.5</b>	100
Type colour	ZRK 6/2A OG	<b>3581.3</b>	100
Type colour			
Colours available	② ⑤ ③ ① ⑨		

Type colour	ZRK 6/2A BG	<b>3581.2</b>	100
Type colour	ZRK 6/2A BU	<b>3581.5</b>	100
Type colour	ZRK 6/2A OG	<b>3581.3</b>	100
Type colour			
Colours available	② ⑤ ③ ① ⑨		

Type colour	ZSL 6/2A GNYE	<b>3589.2</b>	100
Type colour			
Colours available	②		

Type colour	ZRK 10/2A BG	<b>3597.2</b>	50
Type colour	ZRK 10/2A BU	<b>3597.5</b>	50
Type colour	ZRK 10/2A OG	<b>3597.3</b>	50
Type colour			
Colours available	② ⑤ ③ ①		

### Ratings

Rated voltage, V	1000	600	600
Rated current, A	41	50	50
Rated wire cross-section, mm <sup>2</sup>   AWG	6   22-8		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A5   V0		

Rated voltage, V	1000	600	600
Rated current, A	41	50	50
Rated wire cross-section, mm <sup>2</sup>   AWG	6   22-8		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A5   V0		

Rated voltage, V	1000	500	500
Rated current, A	57	55	55
Rated wire cross-section, mm <sup>2</sup>   AWG	10   16-6		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	B6   V0		

Rated voltage, V	1000	500	500
Rated current, A	57	55	55
Rated wire cross-section, mm <sup>2</sup>   AWG	10   16-6		
Rated impulse voltage, kV   Contamination degree	8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	B6   V0		

### Connection data

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-10   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-10   0.5-6
Contact wire range, mm <sup>2</sup>	0.5-10
Stripping length, mm	13

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-10   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-10   0.5-6
Contact wire range, mm <sup>2</sup>	0.5-10
Stripping length, mm	13

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-10   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-10   0.5-6
Contact wire range, mm <sup>2</sup>	0.5-10
Stripping length, mm	13

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	1,5-16   1,5-16
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	1,5-10   1,5-10
Contact wire range, mm <sup>2</sup>	1,5-16
Stripping length, mm	18

### Features

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +120°C  
1 | 2

PA 6.6 | -40 to +120°C  
0 | 2

PA 6.6 | -40 to +120°C  
2 | 2

### Accessories

End plate AP	ZAP 6/2A BG	<b>3760.2</b>	281	20
Insulated cross-connector ZQI	ZQI 6/2 YE	<b>3763.8</b>	309	50
Insulated cross-connector ZQI	ZQI 6/3 YE	<b>3764.8</b>	309	50
Insulated cross-connector ZQI	ZQI 6/4 YE	<b>3765.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/5 YE	<b>3766.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/6 YE	<b>3767.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/7 YE	<b>3768.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/8 YE	<b>3769.8</b>	309	10
Insulated cross-connector ZQI	ZQI 6/9 YE	<b>3770.8</b>	309	10
Insulated cross-connector ZQI	ZQI 6/10 YE	<b>3771.8</b>	309	10
Four-way cover ZAD	ZAD 6/4/B YE	<b>3708.0</b>	315	20
End stop ZES	ZES 35 BG	<b>3748.2</b>	275	50
Test adapter ZTA	ZTA 6	<b>3772.2</b>	321	10
Screwdriver / Metal actuating tool BWMA	SDB 0,8x4,0	<b>1087.0</b>	422	1
Quick marking PMC SB	PMC SB 8/40 WH	<b>9323.7</b>	342	400

End plate AP	ZAP 6/2A BG	<b>3760.2</b>	281	20
Insulated cross-connector ZQI	ZQI 6/2 YE	<b>3763.8</b>	309	50
Insulated cross-connector ZQI	ZQI 6/3 YE	<b>3764.8</b>	309	50
Insulated cross-connector ZQI	ZQI 6/4 YE	<b>3765.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/5 YE	<b>3766.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/6 YE	<b>3767.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/7 YE	<b>3768.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/8 YE	<b>3769.8</b>	309	10
Insulated cross-connector ZQI	ZQI 6/9 YE	<b>3770.8</b>	309	10
Insulated cross-connector ZQI	ZQI 6/10 YE	<b>3771.8</b>	309	10
Four-way cover ZAD	ZAD 6/4/B YE	<b>3708.0</b>	315	20
End stop ZES	ZES 35 BG	<b>3748.2</b>	275	50
Test adapter ZTA	ZTA 6	<b>3772.2</b>	321	10
Screwdriver / Metal actuating tool BWMA	SDB 0,8x4,0	<b>1087.0</b>	422	1
Quick marking PMC SB	PMC SB 8/40 WH	<b>9323.7</b>	342	400

End plate AP	ZAP 6/2 GN	<b>3760.1</b>	281	20
Insulated cross-connector ZQI	ZQI 6/2 YE	<b>3763.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/3 YE	<b>3764.8</b>	309	50
Insulated cross-connector ZQI	ZQI 6/4 YE	<b>3765.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/5 YE	<b>3766.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/6 YE	<b>3767.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/7 YE	<b>3768.8</b>	309	20
Insulated cross-connector ZQI	ZQI 6/8 YE	<b>3769.8</b>	309	10
Insulated cross-connector ZQI	ZQI 6/9 YE	<b>3770.8</b>	309	10
Insulated cross-connector ZQI	ZQI 6/10 YE	<b>3771.8</b>	309	10
Four-way cover ZAD	ZAD 6/4/B YE	<b>3708.0</b>	315	20
End stop ZES	ZES 35 BG	<b>3748.2</b>	275	50
Test adapter ZTA	ZTA 6	<b>3772.2</b>	321	10
Screwdriver / Metal actuating tool BWMA	SDB 0,8x4,0	<b>1087.0</b>	422	1
Quick marking PMC SB	PMC SB 8/40 WH	<b>9323.7</b>	342	400

End plate AP	ZAP 10/2A BG	<b>3788.2</b>	281	20
Insulated cross-connector ZQI	ZQI 10/2 YE	<b>3789.8</b>	309	20
Insulated cross-connector ZQI	ZQI 10/3 YE	<b>3790.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/4 YE	<b>3791.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/5 YE	<b>3792.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/6 YE	<b>3793.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/7 YE	<b>3794.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/8 YE	<b>3795.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/9 YE	<b>3796.8</b>	315	20
Insulated cross-connector ZQI	ZQI 10/10 YE	<b>3797.8</b>	315	20
Four-way cover ZAD	ZAD 10/4/B YE	<b>3709.0</b>	315	20
End stop ZES	ZES 35 BG	<b>3748.2</b>	275	50
Test adapter ZTA	ZTA 10	<b>3790.2</b>	321	10
Screwdriver / Metal actuating tool BWMA	SDB 0,8x4,0	<b>1087.0</b>	422	1
Quick marking PMC SB	PMC SB 8/40 WH	<b>9323.7</b>	342	400

ZSL 10/2A	ZRK 16/2A	ZSL 16/2A		
Protective earth terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections		
<b>Tension-spring</b> 73.5 x 10.1 x 50.5	<b>Tension-spring</b> 81.5 x 12.1 x 51.5	<b>Tension-spring</b> 81.5 x 12.1 x 51.5		
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>		
ZSL 10/2A GNYE <b>3598.2</b> 50	ZRK 16/2A BG <b>3636.2</b> 50 ZRK 16/2A BU <b>3636.5</b> 50 ZRK 16/2A OG <b>3636.3</b> 50	ZSL 16/2A GNYE <b>3637.2</b> 50		
<b>2</b>	<b>2, 5, 3, 1, 9</b>	<b>2</b>		
<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>	<b>IEC CSAus CSA</b>		
10   16-6	16   14-4	16   14-4		
8   3	8   3	8   3		
B6   V0	A7   V0	A7   V0		
1.5-16   1.5-16	1.5-16   1.5-25	1.5-16   1.5-25		
1.5-10   1.5-10	1.5-16   1.5-16	1.5-16   1.5-16		
1.5-16	1.5-25	1.5-25		
18	18	18		
PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C		
0   2	2   2	0   2		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
ZAP 10/2A GN <b>3788.1</b> 281 20	ZAP 16/2A BG <b>3799.2</b> 281 20 ZQI 16/2 YE <b>3800.8</b> 309 20	ZAP 16/2A GN <b>3799.1</b> 281 20		
ZAD 10/4/B YE <b>3709.0</b> 315 20	ZAD 16/4/B YE <b>3801.0</b> 315 20	ZAD 16/4/B YE <b>3801.0</b> 315 20		
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50		
ZTA 10 <b>3790.2</b> 321 10	ZTA 16 <b>3810.2</b> 321 10	ZTA 16 <b>3810.2</b> 321 10		
SDB 0,8x4,0 <b>1087.0</b> 422 1	SDB 0,8x4,0 <b>1087.0</b> 422 1	SDB 0,8x4,0 <b>1087.0</b> 422 1		
PMC SB 8/40 WH <b>9323.7</b> 342 400	PMC SB 8/40 WH <b>9323.7</b> 342 400	PMC SB 8/40 WH <b>9323.7</b> 342 400		

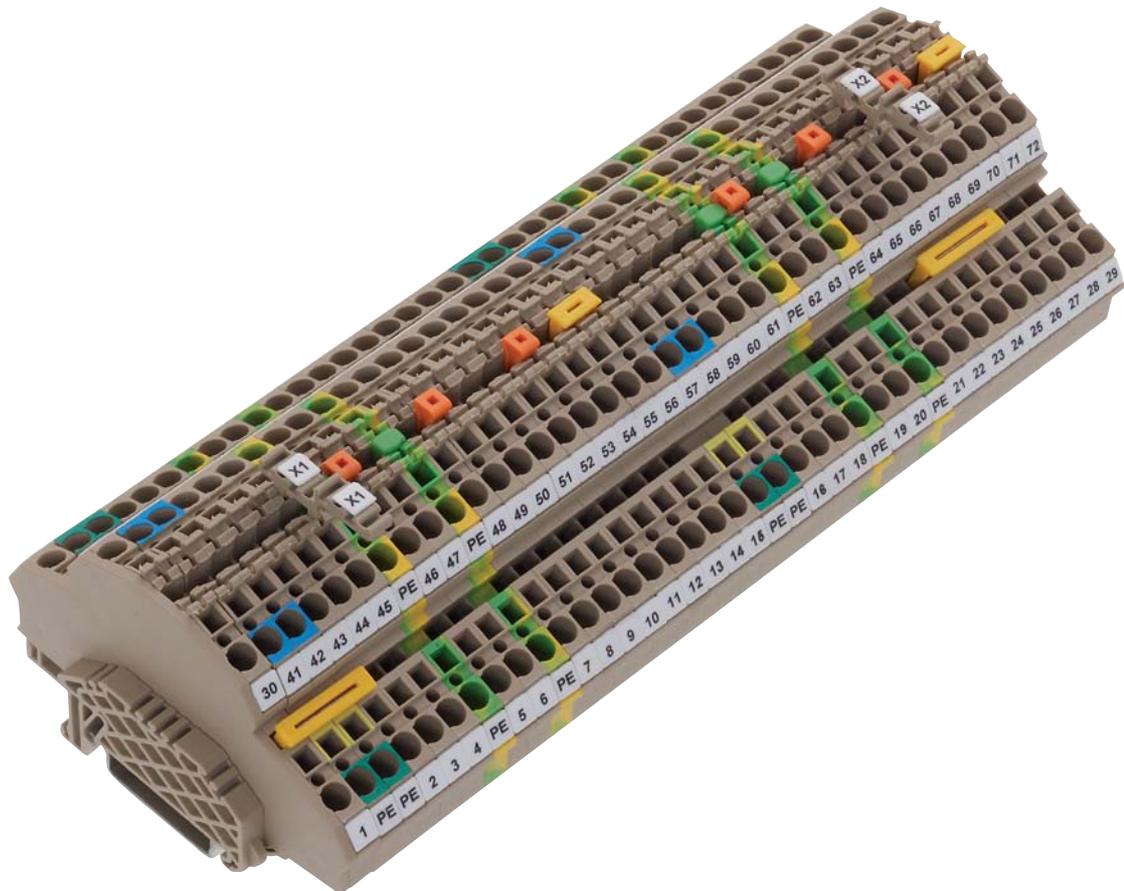
**Double-level terminal blocks ZRKD 2,5 | Double-level protective earth terminal ZSLD 2,5**



With a width of just 5 mm, the new **ZRKD** series is available in thirteen versions and connects with stranded or solid wires up to 24 mm<sup>2</sup> with a rated current of up to 24 A. Solid and stranded wires with wire-end ferrules can be inserted into the connection system with a tool or standard screwdriver. Inserting the tool opens the tension spring for easy conductor insertion. When closed, the conductor is securely clamped against the internal busbar.

The PE foot from **CONTA-CLIP** that contacts the PE potential to the DIN rail is designed to contact on both sides. This means that more material is required; however this offers more safety in the area around the protective earth contact.

In all the **ZSL** series, the foot construction and busbar are made of a single piece of copper. This solid, contiguous construction guarantees low contact resistance as well as the high security of the internal-spring PE contact foot.



## Double-level terminal blocks ZRKD 2.5 | Double-level protective earth terminal ZSLD 2,5

### The features in detail

#### Cross-connection system

The upper and lower levels can be cross-connected using the **ZQI 2,5/...** standard cross-connections. The **ZQI** insulated cross-connections have a pluggable design and are available with from 2 to 10 poles. They cross connect up to the rated current of the relevant **ZRKD** terminals.



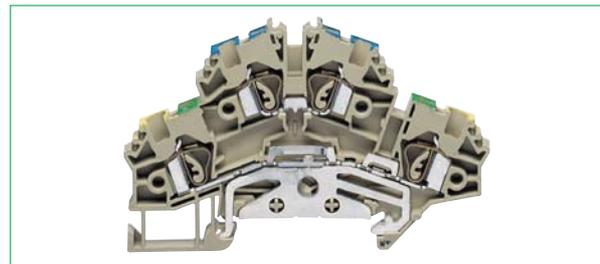
#### Vertical connection ZVQI

The upper and lower levels can be connected to each other using the **ZVQI** vertical cross-connector.



#### Colour coding

The upper and lower levels can be supplied with colour splash to indicate /N blue and /PE Green/Yellow (for example, **ZRKD 2,5 N-PE**).



#### Connecting the PE foot onto the DIN rail

As with all **CONTA-CLIP** PE terminals, the **ZSLD** terminals also implement a two-sided contact with the DIN rail. In all the **ZRK** series, the foot construction and busbar are made of a single piece of copper. This solid, contiguous construction guarantees low contact resistance as well as the high security of the internal-spring PE contact foot.



**Double-level terminal blocks ZRKD | Double-level protective earth terminal ZSLD**

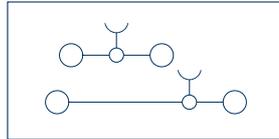
**Tension-spring connection system**



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

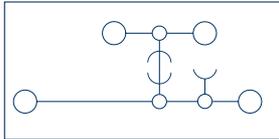
**Connection diagram**

**ZRKD 2,5**



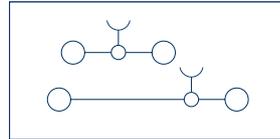
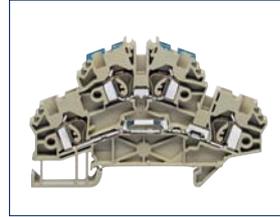
Feed-through terminal  
2 x 2 connections

**ZRKD 2,5 SV**



Feed-through terminal  
4 connections

**ZRKD 2,5 N-DU**



Feed-through terminal  
2 x 2 connections

**Connection type**

Size (L x W x H) with TS 35 x 7.5 mm  
Size (L x W x H with labelling adapter) with TS 35 x 7.5 mm

**Type**

Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type colour with labelling adapter  
**Cat. no.**  
Type colour with labelling adapter  
**Cat. no.**

**Colours available**

**Ratings**

Rated voltage, V  
Rated current, A  
Rated wire cross-section, mm<sup>2</sup> | AWG  
Rated impulse voltage, kV | Contamination degree  
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>  
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>  
Contact wire range, mm<sup>2</sup>  
Stripping length, mm

**Tension-spring**

83.6 x 5.1 x 53  
83.6 x 5.1 x 64

**Qty.**

ZRKD 2,5 BG  
**3562.2** 100  
ZRKD 2,5 BU  
**3562.5** 100  
ZRKD 2,5/ZBA BG  
**3575.2** 100  
ZRKD 2,5/ZBA BU  
**3575.5** 100

**IEC CSAus CSA**

② ⑤ ③ ① ⑧ ⑨  
500 300 300  
24 10 10  
2.5 | 20-12  
6 | 3  
A3 | V0

0.5-4 | -  
0.5-4 | 0.5-2.5  
0.08-4  
10

**Tension-spring**

83.6 x 5.1 x 53  
83.6 x 5.1 x 64

**Qty.**

ZRKD 2,5/SV BG  
**3563.2** 100  
ZRKD 2,5/SV BU  
**3563.5** 100  
ZRKD 2,5/SV/ZBA BG  
**3576.2** 100  
ZRKD 2,5/SV/ZBA BU  
**3576.5** 100

**IEC CSAus CSA**

② ⑤ ③  
500 300 300  
24 10 10  
2.5 | 20-12  
6 | 3  
A3 | V0

0.5-4 | -  
0.5-4 | 0.5-2.5  
0.08-4  
10

**Tension-spring**

83.6 x 5.1 x 53  
83.6 x 5.1 x 64

**Qty.**

ZRKD 2,5/N/DU  
**3564.2** 100  
ZRKD 2,5/N/DU/ZBA  
**3577.2** 100

**IEC CSAus CSA**

②  
500 300 300  
24 10 10  
2.5 | 20-12  
6 | 3  
A3 | V0

0.5-4 | -  
0.5-4 | 0.5-2.5  
0.08-4  
10

**Features**

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP  
**Cat. no.**  
Insulated cross-connector ZQI  
**Cat. no.** 2 poles  
Insulated cross-connector ZQI  
**Cat. no.** 3 poles  
Insulated cross-connector ZQI  
**Cat. no.** 4 poles  
Insulated cross-connector ZQI  
**Cat. no.** 5 poles  
Insulated cross-connector ZQI  
**Cat. no.** 6 poles  
Insulated cross-connector ZQI  
**Cat. no.** 7 poles  
Insulated cross-connector ZQI  
**Cat. no.** 8 poles  
Insulated cross-connector ZQI  
**Cat. no.** 9 poles  
Insulated cross-connector ZQI  
**Cat. no.** 10 poles  
Insulated cross-connector ZQI  
**Cat. no.** 99 poles  
Four-way cover ZAD  
**Cat. no.**  
labelling adapter ZBA  
**Cat. no.**  
End stop ZES  
**Cat. no.**  
Test adapter ZTA  
**Cat. no.**  
Screwdriver / Metal actuating tool BWMA  
**Cat. no.**  
Quick marking PMC SB  
**Cat. no.**

**PA 6.6 | -40 to +120°C**

2 | 4

**Page Qty.**

ZAPD 2,5 BG  
**3756.2** 281 20  
ZQI 2,5/2 YE  
**3710.8** 308 50  
ZQI 2,5/3 YE  
**3711.8** 308 50  
ZQI 2,5/4 YE  
**3712.8** 308 20  
ZQI 2,5/5 YE  
**3713.8** 308 20  
ZQI 2,5/6 YE  
**3714.8** 308 20  
ZQI 2,5/7 YE  
**3715.8** 308 20  
ZQI 2,5/8 YE  
**3716.8** 308 10  
ZQI 2,5/9 YE  
**3717.8** 308 10  
ZQI 2,5/10 YE  
**3718.8** 308 10  
ZQI 2,5/0.5 m/99 poles YE  
**3719.8** 308 1  
ZAD 2,5/4/B YE  
**3706.0** 315 20  
ZBA1 BG  
**3745.2** 314 20  
ZES 35 BG  
**3748.2** 275 50  
ZTA 2,5  
**3740.2** 320 10  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500

**PA 6.6 | -40 to +120°C**

1 | 4

**Page Qty.**

ZAPD 2,5 BG  
**3756.2** 281 20  
ZQI 2,5/2 YE  
**3710.8** 308 50  
ZQI 2,5/3 YE  
**3711.8** 308 50  
ZQI 2,5/4 YE  
**3712.8** 308 20  
ZQI 2,5/5 YE  
**3713.8** 308 20  
ZQI 2,5/6 YE  
**3714.8** 308 20  
ZQI 2,5/7 YE  
**3715.8** 308 20  
ZQI 2,5/8 YE  
**3716.8** 308 10  
ZQI 2,5/9 YE  
**3717.8** 308 10  
ZQI 2,5/10 YE  
**3718.8** 308 10  
ZQI 2,5/0.5 m/99 poles YE  
**3719.8** 308 1  
ZAD 2,5/4/B YE  
**3706.0** 315 20  
ZBA1 BG  
**3745.2** 314 20  
ZES 35 BG  
**3748.2** 275 50  
ZTA 2,5  
**3740.2** 320 10  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500

**PA 6.6 | -40 to +120°C**

2 | 4

**Page Qty.**

ZAPD 2,5 BG  
**3756.2** 281 20  
ZQI 2,5/2 YE  
**3710.8** 308 50  
ZQI 2,5/3 YE  
**3711.8** 308 50  
ZQI 2,5/4 YE  
**3712.8** 308 20  
ZQI 2,5/5 YE  
**3713.8** 308 20  
ZQI 2,5/6 YE  
**3714.8** 308 20  
ZQI 2,5/7 YE  
**3715.8** 308 20  
ZQI 2,5/8 YE  
**3716.8** 308 10  
ZQI 2,5/9 YE  
**3717.8** 308 10  
ZQI 2,5/10 YE  
**3718.8** 308 10  
ZQI 2,5/0.5 m/99 poles YE  
**3719.8** 308 1  
ZAD 2,5/4/B YE  
**3706.0** 315 20  
ZBA1 BG  
**3745.2** 314 20  
ZES 35 BG  
**3748.2** 275 50  
ZTA 2,5  
**3740.2** 320 10  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500

ZRKD 2,5 DU-PE	ZRKD 2,5 N-PE	ZSLD 2,5	ZBA 1	
Feed-through/PE terminal, 2 x 2 connections	Feed-through/PE terminal, 2 x 2 connections	Protective earth terminal 4 connections	labelling adapter for ZRKD 2,5	
<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64	<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64	<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64	22 x 5 x 11	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZRKD 2,5/DU/PE <b>3565.2</b> 100	ZRKD 2,5/N/PE <b>3566.2</b> 100	ZSLD 2,5 GNYE <b>3567.2</b> 100	ZBA 1 BG <b>3745.2</b> 20	
ZRKD 2,5/DU/PE/ZBA <b>3578.2</b> 100	ZRKD 2,5/N/PE/ZBA <b>3579.2</b> 100	ZSLD 2,5/ZBA GNYE <b>3580.2</b> 100		

②			②			②				
IEC	CSAus	CSA	IEC	CSAus	CSA	IEC	CSAus	CSA		
500	300	300	500	300	300					
24	10	10	24	10	10					
2.5   20-12			2.5   20-12			2.5   20-12				
6   3			6   3			6   3				
A3   V0			A3   V0			A3   V0				
0.5-4   -			0.5-4   -			0.5-4   -				
0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5				
0.08-4			0.08-4			0.08-4				
10			10			10				
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C				
1   4			1   4			0   4				
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
ZAPD 2,5 BG <b>3756.2</b> 281 20	ZAPD 2,5 BG <b>3756.2</b> 281 20	ZAPD 2,5 GN <b>3756.1</b> 281 20	ZQI 2,5/2 YE <b>3710.8</b> 308 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50						
ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50		ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20						
ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20		ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20						
ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20		ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20						
ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20		ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20						
ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10		ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10						
ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10		ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10						
ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10		ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10						
ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1									
ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZBA1 BG <b>3745.2</b> 314 20	ZBA1 BG <b>3745.2</b> 314 20	ZBA1 BG <b>3745.2</b> 314 20					
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10					
BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500					

## Double-level terminal blocks with electronic components ZRKD

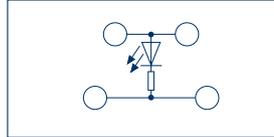
### Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

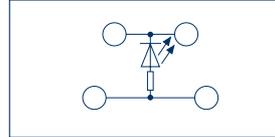
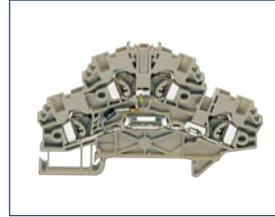
### Connection diagram

#### ZRKD 2,5/LED1



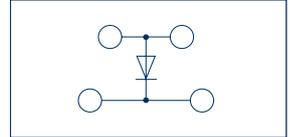
Feed-through terminal  
2x2 connections

#### ZRKD 2,5/LED2



Feed-through terminal  
2x2 connections

#### ZRKD 2,5/D1



Feed-through terminal  
2x2 connections

### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Size (L x W x H with labelling adapter) with TS 35 x 7.5 mm

### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Diode

### Tension-spring

83.6 x 5.1 x 53

83.6 x 5.1 x 64

### Qty.

ZRKD 2,5/LED1(RD)/24V DC BG

**3568.2** 100

### Tension-spring

83.6 x 5.1 x 53

83.6 x 5.1 x 64

### Qty.

ZRKD 2,5/LED2(RD)/24V DC BG

**3569.2** 100

### Tension-spring

83.6 x 5.1 x 53

83.6 x 5.1 x 64

### Qty.

ZRKD 2,5/D1 BG

**3570.2** 100

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

Cat. no.

Insulated cross-connector ZQI

Cat. no. 2 poles

Insulated cross-connector ZQI

Cat. no. 3 poles

Insulated cross-connector ZQI

Cat. no. 4 poles

Insulated cross-connector ZQI

Cat. no. 5 poles

Insulated cross-connector ZQI

Cat. no. 6 poles

Insulated cross-connector ZQI

Cat. no. 7 poles

Insulated cross-connector ZQI

Cat. no. 8 poles

Insulated cross-connector ZQI

Cat. no. 9 poles

Insulated cross-connector ZQI

Cat. no. 10 poles

Insulated cross-connector ZQI

Cat. no. 99 poles

Four-way cover ZAD

Cat. no.

labelling adapter ZBA

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver / Metal actuating tool BWMA

Cat. no.

Quick marking PMC SB

Cat. no.

PA 6.6 | -40 to +120°C

1 | 0

### Page Qty.

ZAPD 2,5 BG

**3756.2** 281 20

ZQI 2,5/2 YE

**3710.8** 308 50

ZQI 2,5/3 YE

**3711.8** 308 50

ZQI 2,5/4 YE

**3712.8** 308 20

ZQI 2,5/5 YE

**3713.8** 308 20

ZQI 2,5/6 YE

**3714.8** 308 20

ZQI 2,5/7 YE

**3715.8** 308 20

ZQI 2,5/8 YE

**3716.8** 308 10

ZQI 2,5/9 YE

**3717.8** 308 10

ZQI 2,5/10 YE

**3718.8** 308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8** 308 1

ZAD 2,5/4/B YE

**3706.0** 315 20

ZES 35 BG

**3748.2** 275 50

ZTA 2,5

**3740.2** 320 10

BWMA 1 (0.5x3.5mm)

**3808.0** 328 1

PMC SB 5/50 WH

**4600.7** 339 500

PA 6.6 | -40 to +120°C

1 | 0

### Page Qty.

ZAPD 2,5 BG

**3756.2** 281 20

ZQI 2,5/2 YE

**3710.8** 308 50

ZQI 2,5/3 YE

**3711.8** 308 50

ZQI 2,5/4 YE

**3712.8** 308 20

ZQI 2,5/5 YE

**3713.8** 308 20

ZQI 2,5/6 YE

**3714.8** 308 20

ZQI 2,5/7 YE

**3715.8** 308 20

ZQI 2,5/8 YE

**3716.8** 308 10

ZQI 2,5/9 YE

**3717.8** 308 10

ZQI 2,5/10 YE

**3718.8** 308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8** 308 1

ZAD 2,5/4/B YE

**3706.0** 315 20

ZES 35 BG

**3748.2** 275 50

ZTA 2,5

**3740.2** 320 10

BWMA 1 (0.5x3.5mm)

**3808.0** 328 1

PMC SB 5/50 WH

**4600.7** 339 500

PA 6.6 | -40 to +120°C

1 | 0

### Page Qty.

ZAPD 2,5 BG

**3756.2** 281 20

ZQI 2,5/2 YE

**3710.8** 308 50

ZQI 2,5/3 YE

**3711.8** 308 50

ZQI 2,5/4 YE

**3712.8** 308 20

ZQI 2,5/5 YE

**3713.8** 308 20

ZQI 2,5/6 YE

**3714.8** 308 20

ZQI 2,5/7 YE

**3715.8** 308 20

ZQI 2,5/8 YE

**3716.8** 308 10

ZQI 2,5/9 YE

**3717.8** 308 10

ZQI 2,5/10 YE

**3718.8** 308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8** 308 1

ZAD 2,5/4/B YE

**3706.0** 315 20

ZBA1 BG

**3745.2** 314

ZES 35 BG

**3748.2** 275 50

ZTA 2,5

**3740.2** 320 10

BWMA 1 (0.5x3.5mm)

**3808.0** 328 1

PMC SB 5/50 WH

**4600.7** 339 500

ZRKD 2,5/D2			ZRKD 2,5/D3			ZRKD 2,5/D4			ZRKD 2,5/D5			
Feed-through terminal 2 x 2 connections			Feed-through terminal 2 x 2 connections			Feed-through terminal 2 x 2 connections			Feed-through terminal 2 x 2 connections			
<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64			<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64			<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64			<b>Tension-spring</b> 83.6 x 5.1 x 53 83.6 x 5.1 x 64			
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			
ZRKD 2,5/D2 BG <b>3571.2</b> 100			ZRKD 2,5/D3 BG <b>3572.2</b> 100			ZRKD 2,5/D4 BG <b>3573.2</b> 100			ZRKD 2,5/D5 BG <b>3574.2</b> 100			
<b>②</b>			<b>②</b>			<b>②</b>			<b>②</b>			
<b>IEC</b>	<b>CSAus</b>	<b>CSA</b>										
2.5   20-12			2.5   20-12			2.5   20-12			2.5   20-12			
6   3			6   3			6   3			6   3			
A3   V0			A3   V0			A3   V0			A3   V0			
0.5-4   -			0.5-4   -			0.5-4   -			0.5-4   -			
0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5			
0.08 - 4			0.08 - 4			0.08 - 4			0.08 - 4			
10			10			10			10			
Soldered diode 1N4007			Soldered diode 1N4007			Soldered diode 1N4007			Soldered diode 1N4007			
Reverse voltage 1000V   Current 1A			Reverse voltage 1000V   Current 1A			Reverse voltage 1000V   Current 1A			Reverse voltage 1000V   Current 1A			
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			
1   0			1   0			1   0			1   0			
	<b>Page</b>	<b>Qty.</b>										
ZAPD 2,5 BG	281	20										
<b>3756.2</b>			<b>3756.2</b>			<b>3756.2</b>			<b>3756.2</b>			
ZQI 2,5/2 YE	308	50										
<b>3710.8</b>			<b>3710.8</b>			<b>3710.8</b>			<b>3710.8</b>			
ZQI 2,5/3 YE	308	50										
<b>3711.8</b>			<b>3711.8</b>			<b>3711.8</b>			<b>3711.8</b>			
ZQI 2,5/4 YE	308	20										
<b>3712.8</b>			<b>3712.8</b>			<b>3712.8</b>			<b>3712.8</b>			
ZQI 2,5/5 YE	308	20										
<b>3713.8</b>			<b>3713.8</b>			<b>3713.8</b>			<b>3713.8</b>			
ZQI 2,5/6 YE	308	20										
<b>3714.8</b>			<b>3714.8</b>			<b>3714.8</b>			<b>3714.8</b>			
ZQI 2,5/7 YE	308	20										
<b>3715.8</b>			<b>3715.8</b>			<b>3715.8</b>			<b>3715.8</b>			
ZQI 2,5/8 YE	308	10										
<b>3716.8</b>			<b>3716.8</b>			<b>3716.8</b>			<b>3716.8</b>			
ZQI 2,5/9 YE	308	10										
<b>3717.8</b>			<b>3717.8</b>			<b>3717.8</b>			<b>3717.8</b>			
ZQI 2,5/10 YE	308	10										
<b>3718.8</b>			<b>3718.8</b>			<b>3718.8</b>			<b>3718.8</b>			
ZQI 2,5/0.5 m/99 poles YE	308	1	ZQI 2,5/0.5 m/99 poles YE	308	1	ZQI 2,5/0.5 m/99 poles YE	308	1	ZQI 2,5/0.5 m/99 poles YE	308	1	
<b>3719.8</b>			<b>3719.8</b>			<b>3719.8</b>			<b>3719.8</b>			
ZAD 2.5/4/B YE	315	20										
<b>3706.0</b>			<b>3706.0</b>			<b>3706.0</b>			<b>3706.0</b>			
ZBA1 BG	314	20										
<b>3745.2</b>			<b>3745.2</b>			<b>3745.2</b>			<b>3745.2</b>			
ZES 35 BG	275	50										
<b>3748.2</b>			<b>3748.2</b>			<b>3748.2</b>			<b>3748.2</b>			
ZTA 2,5	320	10										
<b>3740.2</b>			<b>3740.2</b>			<b>3740.2</b>			<b>3740.2</b>			
BWMA 1 (0.5x3.5mm)	328	1										
<b>3808.0</b>			<b>3808.0</b>			<b>3808.0</b>			<b>3808.0</b>			
PMC SB 5/50 WH	339	500	PMC SB 5/50 WH	339	500	PMC SB 5/50 WH	339	500	PMC SB 5/50 WH	339	500	
<b>4600.7</b>			<b>4600.7</b>			<b>4600.7</b>			<b>4600.7</b>			

## Three-level terminal blocks ZIKD



### Three-level terminal blocks ZIKD 2,5

The **ZIKD 2,5** terminal blocks have a width of 5 mm and are available in a variety of designs. They have three levels with six connection points and can handle solid or stranded wires up to 2.5 mm<sup>2</sup> with a rated current up to 24 amps. The lower level is designed as a feed-through or PE connection. All levels can be cross-connected to neighbouring terminal blocks. You can also use a vertical connector to bridge them within a terminal block.



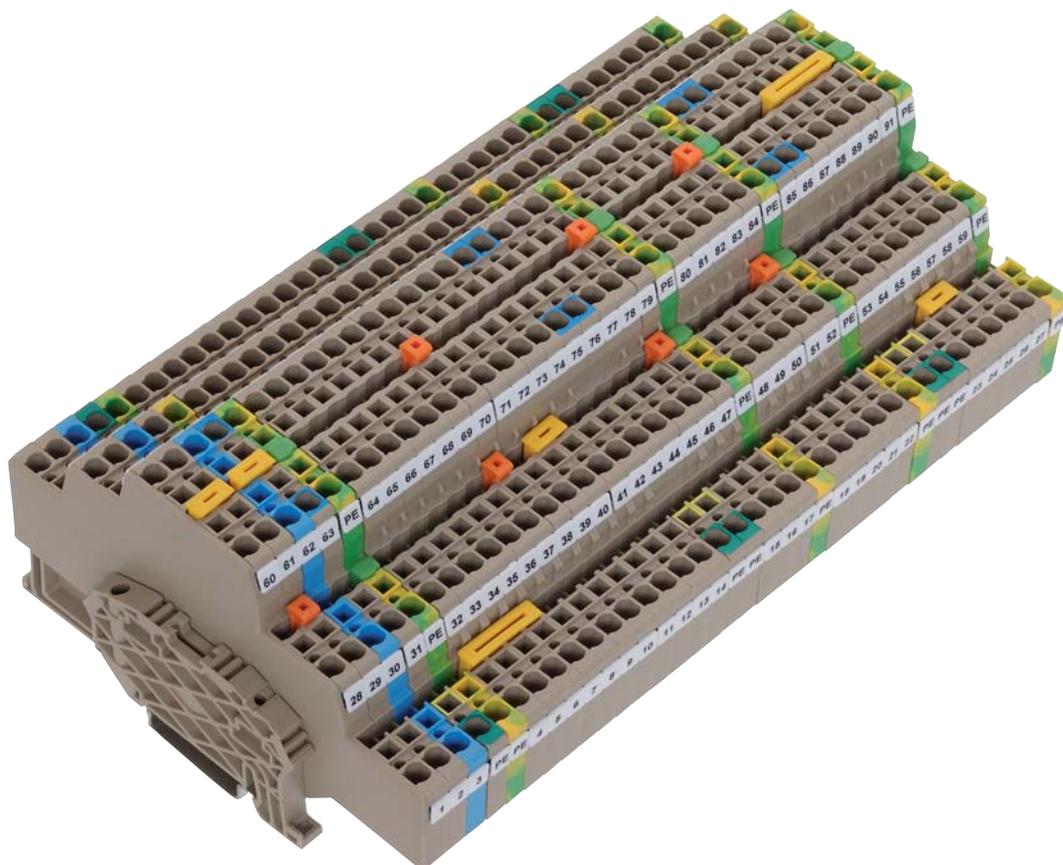
**PE foot on both sides**



**Vertical connection ZVQI**



**Cross-connection ZQI on 3 levels**



## Motor-connection terminal ZVMAK



### Four-level terminal blocks ZVMAK 2,5

The **ZVMAK 2,5** has a width of 5 mm. It has four levels with seven connection points and can handle solid or stranded wires up to 2.5 mm<sup>2</sup> with a rated current up to 24 amps. The lower level is designed as a PE connection. The PE foot contacts both sides of the DIN rail, thus ensuring optimal electrical security.

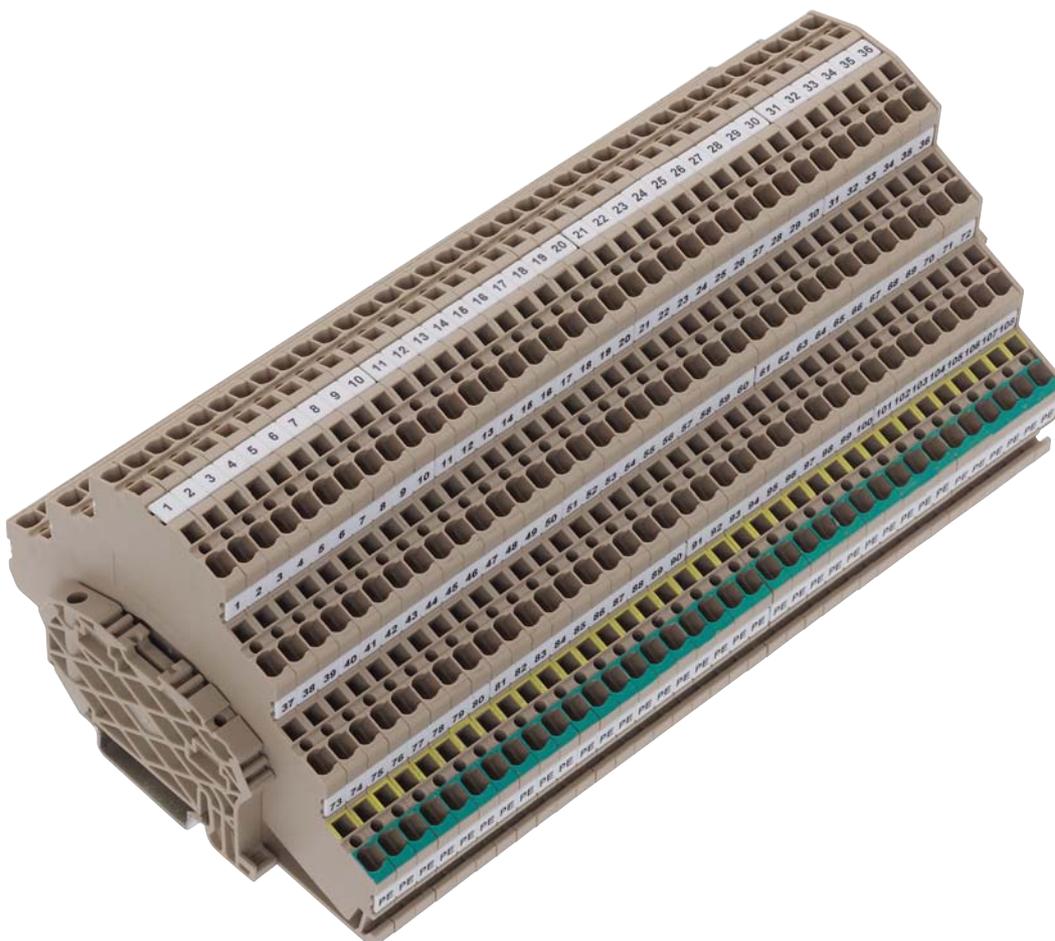
The **ZVMAK** motor-connection terminals can be cross-connected using the **AQI** external cross connection.



PE foot on both sides



External cross-connection AQI



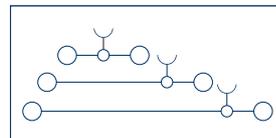
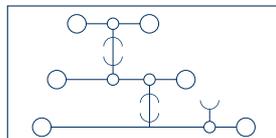
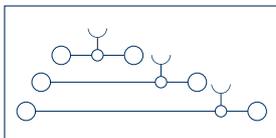
**Three-level terminals ZIKD | Motor-connection terminal ZVMAK**

**Tension-spring connection system**



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

**Connection diagram**



Feed-through terminal  
3 x 2 connections

Feed-through terminal  
6 connections

Feed-through terminal  
3 x 2 connections

**Connection type**

Size (L x W x H) with TS 35 x 7.5 mm

**Tension-spring**

116,2 x 5.1 x 68

**Tension-spring**

116,2 x 5.1 x 68

**Tension-spring**

116,2 x 5.1 x 68

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

**Qty.**

ZIKD 2,5 BG

**3590.2**

50

ZIKD 2,5 BU

**3590.5**

50

**Qty.**

ZIKD 2,5/SV BG

**3591.2**

50

ZIKD 2,5/SV BU

**3591.5**

50

ZIKD 2,5/L/L/N BG

**17037.2**

② ⑤ ③

**IEC**

**CSAus**

**CSA**

500

300

300

24

15

15

2.5 | 20-12

6 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

② ⑤ ③

**IEC**

**CSAus**

**CSA**

500

300

300

24

15

15

2.5 | 20-12

6 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

②

**IEC**

**CSAus**

**CSA**

500

300

300

24

15

15

2.5 | 20-12

6 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Insulated cross-connector ZQI / External cross-connector AQI

**Cat. no.** 2 poles

Insulated cross-connector ZQI / External cross-connector AQI

**Cat. no.** 3 poles

Insulated cross-connector ZQI

**Cat. no.** 4 poles

Insulated cross-connector ZQI

**Cat. no.** 5 poles

Insulated cross-connector ZQI

**Cat. no.** 6 poles

Insulated cross-connector ZQI

**Cat. no.** 7 poles

Insulated cross-connector ZQI

**Cat. no.** 8 poles

Insulated cross-connector ZQI

**Cat. no.** 9 poles

Insulated cross-connector ZQI

**Cat. no.** 10 poles

Insulated cross-connector ZQI

**Cat. no.** 99 poles

Four-way cover ZAD

**Cat. no.**

labelling adapter ZBA

**Cat. no.**

End stop ZES

**Cat. no.**

Test adapter ZTA

**Cat. no.**

Screwdriver / Metal actuating tool BWMA

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

PA 6.6 | -40 to +120°C

3 | 6

**Page Qty.**

ZAP 2,5/ID BG

**3761.2**

281 20

ZQI 2,5/2 YE

**3710.8**

308 50

ZQI 2,5/3 YE

**3711.8**

308 50

ZQI 2,5/4 YE

**3712.8**

308 20

ZQI 2,5/5 YE

**3713.8**

308 20

ZQI 2,5/6 YE

**3714.8**

308 20

ZQI 2,5/7 YE

**3715.8**

308 20

ZQI 2,5/8 YE

**3716.8**

308 10

ZQI 2,5/9 YE

**3717.8**

308 10

ZQI 2,5/10 YE

**3718.8**

308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8**

308 1

ZAD 2,5/4/B YE

**3706.0**

315 20

ZBA 3 BG

**3813.2**

314 50

ZES 35 BG

**3748.2**

275 50

ZTA 2,5

**3740.2**

320 10

BWMA 1 (0.5x3.5mm)

**3808.0**

328 1

PMC SB 5/50 WH

**4600.7**

339 500

PA 6.6 | -40 to +120°C

1 | 6

**Page Qty.**

ZAP 2,5/ID BG

**3761.2**

281 20

ZQI 2,5/2 YE

**3710.8**

308 50

ZQI 2,5/3 YE

**3711.8**

308 50

ZQI 2,5/4 YE

**3712.8**

308 20

ZQI 2,5/5 YE

**3713.8**

308 20

ZQI 2,5/6 YE

**3714.8**

308 20

ZQI 2,5/7 YE

**3715.8**

308 20

ZQI 2,5/8 YE

**3716.8**

308 10

ZQI 2,5/9 YE

**3717.8**

308 10

ZQI 2,5/10 YE

**3718.8**

308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8**

308 1

ZAD 2,5/4/B YE

**3706.0**

315 20

ZBA 3 BG

**3813.2**

314 50

ZES 35 BG

**3748.2**

275 50

ZTA 2,5

**3740.2**

320 10

BWMA 1 (0.5x3.5mm)

**3808.0**

328 1

PMC SB 5/50 WH

**4600.7**

339 500

PA 6.6 | -40 to +120°C

3 | 6

**Page Qty.**

ZAP 2,5/ID BG

**3761.2**

281 20

ZQI 2,5/2 YE

**3710.8**

308 50

ZQI 2,5/3 YE

**3711.8**

308 50

ZQI 2,5/4 YE

**3712.8**

308 20

ZQI 2,5/5 YE

**3713.8**

308 20

ZIKD 2,5/PE/L/N	ZIKD 2,5/PE/L/L	ZIKD 2,5/PE/N/N	ZIKD 2,5/SV/PE	ZVMAK 2,5
Feed-through/PE terminal, 3 x 2 connections	Feed-through/PE terminal, 3 x 2 connections	Feed-through/PE terminal, 3 x 2 connections	Protective earth terminal 6 connections	Motor-connection terminal 3 x 2 + 1 connections
<b>Tension-spring</b> 116.2 x 5.1 x 68	<b>Tension-spring</b> 116.2 x 5.1 x 68	<b>Tension-spring</b> 116.2 x 5.1 x 68	<b>Tension-spring</b> 116.2 x 5.1 x 68	<b>Tension-spring</b> 103.5 x 5.1 x 73
<b>Qty.</b> ZIKD 2,5/PE/L/N BG <b>3594.2</b> 50	<b>Qty.</b> ZIKD 2,5/PE/L/L BG <b>3592.2</b> 50	<b>Qty.</b> ZIKD 2,5/PE/N/N BU <b>3592.5</b> 50	<b>Qty.</b> ZIKD 2,5/SV/PE GE <b>3593.2</b> 50	<b>Qty.</b> ZVMAK 2,5 BG <b>3582.2</b> 50 ZVMAK 2,5 BU <b>3582.5</b> 50

②			②			②			②			②		
IEC	CSAus	CSA												
500	300	300	500	300	300	500	300	300	400	300	300	400	300	300
24	15	15	24	15	15	24	15	15	24	15	15	24	15	15
2.5   20-12			2.5   20-12			2.5   20-12			2.5   20-12			2.5   20-12		
6   3			6   3			6   3			6   3			6   3		
A3   V0			A3   V0			A3   V0			A3   V0			A3   V0		
0.5-4   -			0.5-4   -			0.5-4   -			0.5-4   -			0.5-4   -		
0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5			0.5-4   0.5-2.5		
0.08-4			0.08-4			0.08-4			0.08-4			0.08-4		
10			10			10			10			10		

PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C		
2   6			2   6			2   6			0   6			0   6		
Page	Qty.		Page	Qty.		Page	Qty.		Page	Qty.	Page	Qty.	Page	Qty.
ZAP 2,5/ID BG <b>3761.2</b>	281	20	ZAP 2,5/ID BG <b>3761.2</b>	281	20	ZAP 2,5/ID BU <b>3761.5</b>	281	20	ZAP 2,5/ID GN <b>3761.1</b>	281	20	ZAP/MA BG <b>3762.2</b>	281	20
ZQI 2,5/2 YE <b>3710.8</b>	308	50	ZQI 2,5/2 YE <b>3710.8</b>	308	50	ZQI 2,5/2 YE <b>3710.8</b>	308	50				AQI 2/S/1S YE <b>2023.0</b>	292	50
ZQI 2,5/3 YE <b>3711.8</b>	308	50	ZQI 2,5/3 YE <b>3711.8</b>	308	50	ZQI 2,5/3 YE <b>3711.8</b>	308	50				AQI 3/1S/1S YE <b>2024.0</b>	292	50
ZQI 2,5/4 YE <b>3712.8</b>	308	20	ZQI 2,5/4 YE <b>3712.8</b>	308	20	ZQI 2,5/4 YE <b>3712.8</b>	308	20						
ZQI 2,5/5 YE <b>3713.8</b>	308	20	ZQI 2,5/5 YE <b>3713.8</b>	308	20	ZQI 2,5/5 YE <b>3713.8</b>	308	20						
ZQI 2,5/6 YE <b>3714.8</b>	308	20	ZQI 2,5/6 YE <b>3714.8</b>	308	20	ZQI 2,5/6 YE <b>3714.8</b>	308	20						
ZQI 2,5/7 YE <b>3715.8</b>	308	20	ZQI 2,5/7 YE <b>3715.8</b>	308	20	ZQI 2,5/7 YE <b>3715.8</b>	308	20						
ZQI 2,5/8 YE <b>3716.8</b>	308	10	ZQI 2,5/8 YE <b>3716.8</b>	308	10	ZQI 2,5/8 YE <b>3716.8</b>	308	10						
ZQI 2,5/9 YE <b>3717.8</b>	308	10	ZQI 2,5/9 YE <b>3717.8</b>	308	10	ZQI 2,5/9 YE <b>3717.8</b>	308	10						
ZQI 2,5/10 YE <b>3718.8</b>	308	10	ZQI 2,5/10 YE <b>3718.8</b>	308	10	ZQI 2,5/10 YE <b>3718.8</b>	308	10						
ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b>	308	1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b>	308	1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b>	308	1						
ZAD 2.5/4/B YE <b>3706.0</b>	315	20	ZAD 2.5/4/B YE <b>3706.0</b>	315	20	ZAD 2.5/4/B YE <b>3706.0</b>	315	20	ZAD 2.5/4/B YE <b>3706.0</b>	315	20	ZAD 2.5/4/B YE <b>3706.0</b>	315	20
ZBA 3 BG <b>3813.2</b>	314	50	ZBA 3 BG <b>3813.2</b>	314	50	ZBA 3 BG <b>3813.2</b>	314	50	ZBA 3 BG <b>3813.2</b>	314	50	ZBA3 <b>3813.2</b>	314	50
ZES 35 BG <b>3748.2</b>	275	50	ZES 35 BG <b>3748.2</b>	275	50	ZES 35 BG <b>3748.2</b>	275	50	ZES 35 BG <b>3748.2</b>	275	50	ZES 35 BG <b>3748.2</b>	275	50
ZTA 2 <b>3740.2</b>	320	10	ZTA 2 <b>3740.2</b>	320	10	ZTA 2 <b>3740.2</b>	320	10	ZTA 2 <b>3740.2</b>	320	10	ZTA 2 <b>3740.2</b>	320	10
BWMA 1 (0.5x3.5mm) <b>3808.0</b>	328	1	BWMA 1 (0.5x3.5mm) <b>3808.0</b>	328	1	BWMA 1 (0.5x3.5mm) <b>3808.0</b>	328	1	BWMA 1 (0.5x3.5mm) <b>3808.0</b>	328	1	BWMA 1 (0.5x3.5mm) <b>3808.0</b>	328	1
PMC SB 5/50 WH <b>4600.7</b>	339	500	PMC SB 5/50 WH <b>4600.7</b>	339	500	PMC SB 5/50 WH <b>4600.7</b>	339	500	PMC SB 5/50 WH <b>4600.7</b>	339	500	PMC SB 5/50 WH <b>4600.7</b>	339	500

Disconnect-blade terminals | Disconnect terminals | Fused terminals ZTRK



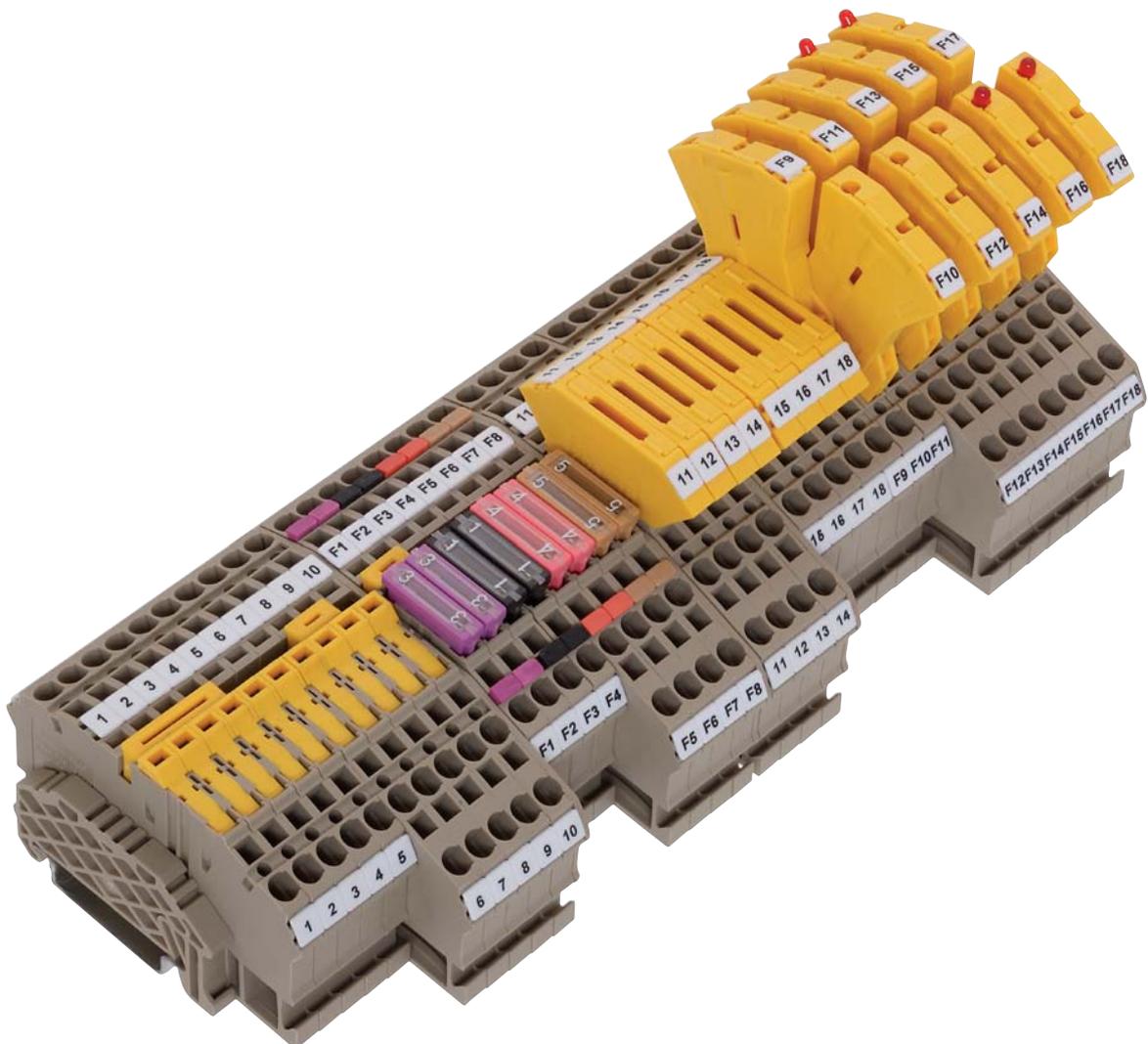
The **ZTRK** base terminal line can be combined in different ways with the product-related line of accessories as two-wire, three-wire and four-wire variants. Without any assembly, the three base terminals can receive auto-fuses or diode plugs.

Alternatively, the base terminals are available equipped with a disconnect blade or a fuse holder for G fuses. The functions of all versions can be changed by removing or adding the disconnect blade, the fuse holder, or the diode plug. The plug-in fuse holders are available as models with or without a status display. They offer great flexibility, easy handling and a wide selection of 5x20 G fuses.

Solid and stranded wires with or without wire-end ferrules can be inserted into the connection

system with the use of an actuating tool. The tension spring establishes a secure contact between the conductive wire and the busbar.

For the fuse and disconnect terminals with tension-spring connections, there are many terminals blocks with disconnect blade and disconnect plug available, as well as a fuse holder for auto-fuses and micro-fuses. Each of the tension-spring terminal blocks can be equipped with the standard accessories: the **ZQI 2,5** (cross connector) and the **PMC SB 5** (quick marking system).



## Disconnect-blade terminals | Disconnect terminals | Fused terminals ZTRK

### The features in detail

#### Wire connections

Solid and stranded wires with or without wire-end ferrules can be inserted into the connection system with the use of an actuating tool. The tension spring establishes a secure contact between the conductive wire and the busbar.

(Connection cross-section: 4 mm<sup>2</sup>, rated current: 24 A)

#### Disconnect terminals ZTRK 2,5/.../MT and ZTRK 2,5/.../ST

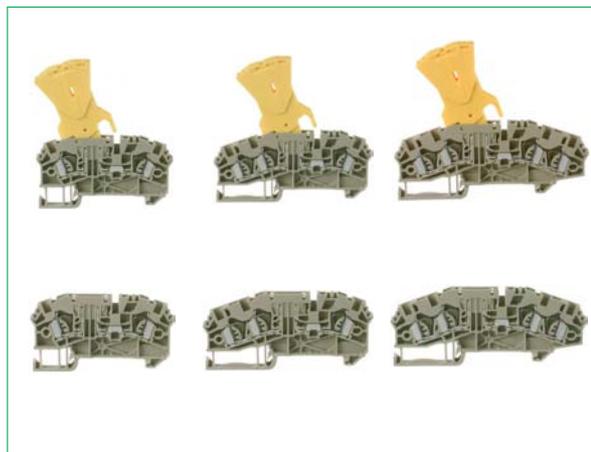
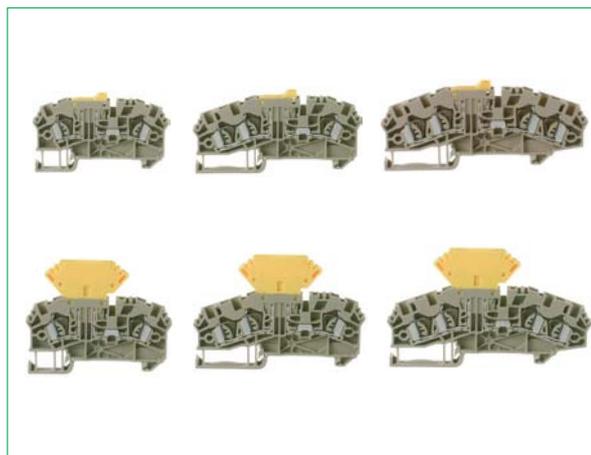
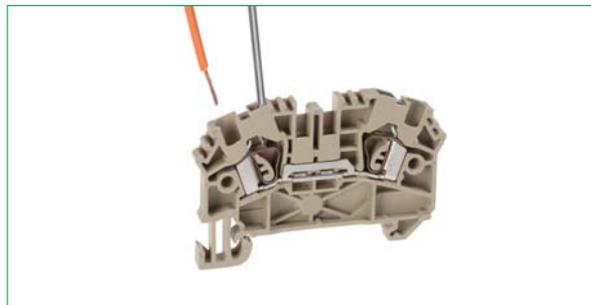
Disconnect terminals are often used in measurement, regulation and control technology in order to simplify troubleshooting and in order to be able to commission new systems or carry out revisions on older systems. In the tension-spring system, two models (disconnect-plug/disconnect-blade) are available in the base terminal variations of 2-, 3- and 4- wire systems. The proven **ZDS|ZTR** disconnect-plug and **ZTRK 2,5.../MT** disconnect-blade systems with high surface quality and, therefore, low and stable transitional resistance, ensures accurate measurement results. They distinguish themselves by their narrow construction of only 5 mm and a high current capacity of 18 A. In addition to the **ZTR** disconnect-plug models (feed-through connection), **ZDS** diode plugs (I N 4007) are also available. It is easy to distribute potential voltages in combination with the pluggable **ZQI** cross connectors.

#### Fuse holder for micro-fuse/auto-fuse ZTRK 2,5/.../OT with auto-fuse and ZTRK 2,5/.../ZS

The base terminals can hold auto-fuses without needing any accessories. With the fuse plug **ZS/H**, available in five variations, 5x20 fuses can be accommodated. Due to the special construction of the base terminal/fuse holder, the fuse plugs can be inserted in alternate directions on a pitch of only 5 mm. The fuse plugs are available in variations with or without status display (different voltage ranges). With a rated voltage of 400 V, the rated current of the fuse plug is 6.3 A. In combination with the pluggable **ZQI** cross connectors, it is easy to distribute voltage potentials. A measurement pick-off can be made on each individual terminal block using the test channel and the **ZTA 2,5** test adapter of the PS 2.3 test plug.

#### Cross-connector ZQI

The **ZQI** insulated cross-connections have a pluggable design and are available with from 2 to 10 and 99 poles. They cross connect up to the rated current of the relevant **ZTRK** terminals.





ZTRK 2,5/2A/ST	ZTRK 2,5/3A/ST	ZTRK 2,5/4A/ST	ZDS/ZTR	
Disconnect terminal 2 connections	Disconnect terminal 3 connections	Disconnect terminal 4 connections		
<b>Tension-spring</b> 68 x 5.1 x 57.1	<b>Tension-spring</b> 80.2 x 5.1 x 57.1	<b>Tension-spring</b> 92.4 x 5.1 x 57.1	<b>Tension-spring</b>	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZTRK 2,5/2A/ST BG <b>3606.2</b> 100	ZTRK 2,5/3A/ST BG <b>3607.2</b> 100	ZTRK 2,5/4A/ST BG <b>3608.2</b> 100	ZDS 1/ZTR <b>3612.2</b> 20	
ZTRK 2,5/2A/ST BU <b>3606.5</b> 100	ZTRK 2,5/3A/ST BU <b>3607.5</b> 100	ZTRK 2,5/4A/ST BU <b>3608.5</b> 100	ZDS 2/ZTR <b>3613.2</b> 20	
			ZDS 3/ZTR <b>3614.2</b> 20	
			ZDS 4/ZTR <b>3615.2</b> 20	
IEC 400 - - 18 - - 2.5   20-12 6   3 A3   V0	IEC 400 - - 18 - - 2.5   20-12 6   3 A3   V0	IEC 400 - - 18 - - 2.5   20-12 6   3 A3   V0		
0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10		
PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
ZAPT 2,5/2A BG <b>3796.2</b> 281 50	ZAPT 2,5/3A BG <b>3797.2</b> 281 50	ZAPT 2,5/4A BG <b>3798.2</b> 281 50		
ZQI 2,5/2 YE <b>3710.8</b> 308 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50		
ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50		
ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20		
ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20		
ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20		
ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20		
ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10		
ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10		
ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10		
ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1		
ZAD 2,5/4/B YE <b>3706.0</b> 315 20	ZAD 2,5/4/B YE <b>3706.0</b> 315 20	ZAD 2,5/4/B YE <b>3706.0</b> 315 20		
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50		
ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10		
BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1		
PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	

For **3613.2** and **3614.2**  
Soldered diode 1N4007  
Reverse voltage 1000V/Current 1A

## Fuse disconnect terminals ZTRK

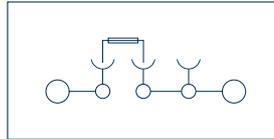
### Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

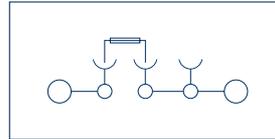
### Connection diagram

#### ZTRK 2,5/2A/ZS



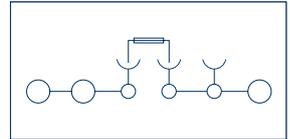
Fuse disconnect terminal  
2 connections

#### ZTRK 2,5/2A/ZS...



Fuse disconnect terminal  
2 connections

#### ZTRK 2,5/3A/ZS



Fuse disconnect terminal  
3 connections

### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

### Tension-spring

68 x 5.1 x 78.7

### Tension-spring

68 x 5.1 x 78.7

### Tension-spring

80.2 x 5.1 x 78.7

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Max. power loss, W

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, m

Fuse size

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

ZAP end plate

**Cat. no.**

Insulated cross-connector ZQI

**Cat. no.** 2 poles

Insulated cross-connector ZQI

**Cat. no.** 3 poles

Insulated cross-connector ZQI

**Cat. no.** 4 poles

Insulated cross-connector ZQI

**Cat. no.** 5 poles

Insulated cross-connector ZQI

**Cat. no.** 6 poles

Insulated cross-connector ZQI

**Cat. no.** 7 poles

Insulated cross-connector ZQI

**Cat. no.** 8 poles

Insulated cross-connector ZQI

**Cat. no.** 9 poles

Insulated cross-connector ZQI

**Cat. no.** 10 poles

Insulated cross-connector ZQI

**Cat. no.** 99 poles

Four-way cover ZAD

**Cat. no.**

End stop ZES

**Cat. no.**

Test adapter ZTA

**Cat. no.**

Screwdriver / Metal actuating tool BWMA

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**Qty.**

ZTRK 2,5/2A/ZS BG

**3616.2** 100

ZTRK 2,5/2A/ZS BU

**3616.5** 100

② ⑤

**IEC** **CSAus** **CSA**

400 - -

6,3 - -

2.5 | 20-12

6 | 3

1,6

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

5 x 20

PA 6.6 | -40 to +120°C

1 | 2

**Page** **Qty.**

ZAPT 2,5/2A BG

**3796.2** 281 20

ZQI 2,5/2 YE

**3710.8** 308 50

ZQI 2,5/3 YE

**3711.8** 308 50

ZQI 2,5/4 YE

**3712.8** 308 20

ZQI 2,5/5 YE

**3713.8** 308 20

ZQI 2,5/6 YE

**3714.8** 308 20

ZQI 2,5/7 YE

**3715.8** 308 20

ZQI 2,5/8 YE

**3716.8** 308 10

ZQI 2,5/9 YE

**3717.8** 308 10

ZQI 2,5/10 YE

**3718.8** 308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8** 308 1

ZAD 2.5/4/B YE

**3706.0** 315 20

ZES 35 BG

**3748.2** 275 50

ZTA 2,5

**3740.2** 320 10

BWMA 1 (0.5x3.5mm)

**3808.0** 328 1

PMC SB 5/50 WH

**4600.7** 339 500

**Qty.**

ZTRK 2,5/2A/ZS 36 BG

**3617.2** 10V-36V 100

ZTRK 2,5/2A/ZS 70 BG

**3618.2** 35V-70V 100

ZTRK 2,5/2A/ZS 150 BG

**3619.2** 60V-150V 100

ZTRK 2,5/2A/ZS 250 BG

**3620.2** 140V-250V 100

②

**IEC** **CSAus** **CSA**

See above

6,3 - -

2.5 | 20-12

6 | 3

1,6

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

5 x 20

PA 6.6 | -40 to +120°C

1 | 2

**Page** **Qty.**

ZAPT 2,5/2A BG

**3796.2** 281 20

ZQI 2,5/2 YE

**3710.8** 308 50

ZQI 2,5/3 YE

**3711.8** 308 50

ZQI 2,5/4 YE

**3712.8** 308 20

ZQI 2,5/5 YE

**3713.8** 308 20

ZQI 2,5/6 YE

**3714.8** 308 20

ZQI 2,5/7 YE

**3715.8** 308 20

ZQI 2,5/8 YE

**3716.8** 308 10

ZQI 2,5/9 YE

**3717.8** 308 10

ZQI 2,5/10 YE

**3718.8** 308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8** 308 1

ZAD 2.5/4/B YE

**3706.0** 315 20

ZES 35 BG

**3748.2** 275 50

ZTA 2,5

**3740.2** 320 10

BWMA 1 (0.5x3.5mm)

**3808.0** 328 1

PMC SB 5/50 WH

**4600.7** 339 500

**Qty.**

ZTRK 2,5/3A/ZS BG

**3621.2** 100

ZTRK 2,5/3A/ZS BU

**3621.5** 100

② ⑤

**IEC** **CSAus** **CSA**

400 - -

6,3 - -

2.5 | 20-12

6 | 3

1,6

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

5 x 20

PA 6.6 | -40 to +120°C

1 | 2

**Page** **Qty.**

ZAPT 2,5/3A BG

**3797.2** 281 20

ZQI 2,5/2 YE

**3710.8** 308 50

ZQI 2,5/3 YE

**3711.8** 308 50

ZQI 2,5/4 YE

**3712.8** 308 20

ZQI 2,5/5 YE

**3713.8** 308 20

ZQI 2,5/6 YE

**3714.8** 308 20

ZQI 2,5/7 YE

**3715.8** 308 20

ZQI 2,5/8 YE

**3716.8** 308 10

ZQI 2,5/9 YE

**3717.8** 308 10

ZQI 2,5/10 YE

**3718.8** 308 10

ZQI 2,5/0.5 m/99 poles YE

**3719.8** 308 1

ZAD 2.5/4/B YE

**3706.0** 315 20

ZES 35 BG

**3748.2** 275 50

ZTA 2,5

**3740.2** 320 10

BWMA 1 (0.5x3.5mm)

ZTRK 2,5/3A/ZS...	ZTRK 2,5/4A/ZS	ZTRK 2,5/4A/ZS...	ZS/H.../ZTR	
Fuse disconnect terminal 3 connections	Fuse disconnect terminal 4 connections	Fuse disconnect terminal 4 connections	Fuse plug for 5 x 20 fuses	
<b>Tension-spring</b> 80.2 x 5.1 x 78.7	<b>Tension-spring</b> 92.4 x 5.1 x 78.7	<b>Tension-spring</b> 92.4 x 5.1 x 78.7	<b>Tension-spring</b>	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZTRK 2,5/3A/ZS 36 BG <b>3622.2</b> 10V-36V 100	ZTRK 2,5/4A/ZS BG <b>3626.2</b> 100	ZTRK 2,5/4A/ZS 36 BG <b>3627.2</b> 10V-36V 100	ZS/H0/ZTR <b>3635.2</b> 20	
ZTRK 2,5/3A/ZS 70 BG <b>3623.2</b> 35V-70V 100	ZTRK 2,5/4A/ZS BU <b>3626.5</b> 100	ZTRK 2,5/4A/ZS 70 BG <b>3628.2</b> 35V-70V 100	ZS/H1/ZTR/36 <b>3631.2</b> 10V-36V 20	
ZTRK 2,5/3A/ZS 150 BG <b>3624.2</b> 60V-150V 100		ZTRK 2,5/4A/ZS 150 BG <b>3629.2</b> 60V-150V 100	ZS/H2/ZTR/70 <b>3632.2</b> 35V-70V 20	
ZTRK 2,5/3A/ZS 250 BG <b>3625.2</b> 140V-250V 100		ZTRK 2,5/4A/ZS 250 BG <b>3630.2</b> 140V-250V 100	ZS/H3/ZTR/150 <b>3633.2</b> 60V-150V 20	
			ZS/H4/ZTR/250 <b>3634.2/20</b> 140V-250V 20	
<sup>2</sup>	<sup>2</sup> <sup>5</sup>	<sup>2</sup>		
<b>IEC</b> <b>CSAus</b> <b>CSA</b>	<b>IEC</b> <b>CSAus</b> <b>CSA</b>	<b>IEC</b> <b>CSAus</b> <b>CSA</b>		
See above	400 - -	See above		
6,3 - -	6,3 - -	6,3 - -		
2.5   20-12	2.5   20-12	2.5   20-12		
6   3	6   3	6   3		
1,6	1,6	1,6		
A3   V0	A3   V0	A3   V0		
0.5-4   -	0.5-4   -	0.5-4   -		
0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5		
0.08-4	0.08-4	0.08-4		
10	10	10		
5 x 20	5 x 20	5 x 20		
PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C		
1   2	1   2	1   2		
<b>Page</b> <b>Qty.</b>	<b>Page</b> <b>Qty.</b>	<b>Page</b> <b>Qty.</b>	<b>Page</b> <b>Qty.</b>	
ZAPT 2,5/3A BG <b>3797.2</b> 281 20	ZAPT 2,5/4A BG <b>3798.2</b> 281 50	ZAPT 2,5/4A BG <b>3798.2</b> 281 50		
ZQI 2,5/2 YE <b>3710.8</b> 308 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50		
ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50		
ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20		
ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20		
ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20		
ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20		
ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10		
ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10		
ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10		
ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1		
ZAD 2,5/4/B YE <b>3706.0</b> 315 20	ZAD 2,5/4/B YE <b>3706.0</b> 315 20	ZAD 2,5/4/B YE <b>3706.0</b> 315 20		
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50		
ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10		
BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1		
PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	



Motor vehicle fuses are listed on page 325.

## Disconnect terminals ZTRK

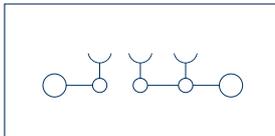
### Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

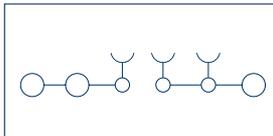
### Connection diagram

#### ZTRK 2,5/2A/OT



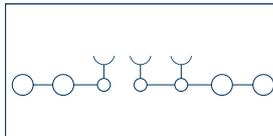
Base terminal  
2 connections

#### ZTRK 2,5/3A/OT



Base terminal  
3 connections

#### ZTRK 2,5/4A/OT



Base terminal  
4 connections

### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

### Tension-spring

68 x 5.1 x 39.2

### Tension-spring

80.2 x 5.1 x 39.2

### Tension-spring

92.4 x 5.1 x 39.2

### Type

Type colour

**Cat. no.**

	Qty.
ZTRK 2,5/2A/OT BG	100
<b>3609.2</b>	

	Qty.
ZTRK 2,5/3A/OT BG	100
<b>3610.2</b>	

	Qty.
ZTRK 2,5/4A/OT BG	100
<b>3611.2</b>	

Type colour

**Cat. no.**

ZTRK 2,5/2A/OT BU	100
<b>3609.5</b>	

ZTRK 2,5/3A/OT BU	100
<b>3610.5</b>	

ZTRK 2,5/4A/OT BU	100
<b>3611.5</b>	

Type colour

**Cat. no.**

Colours available



### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Diodes

Fuse size

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

ZAP end plate

**Cat. no.**

Insulated cross-connector ZQI

**Cat. no.** 2 poles

Insulated cross-connector ZQI

**Cat. no.** 3 poles

Insulated cross-connector ZQI

**Cat. no.** 4 poles

Insulated cross-connector ZQI

**Cat. no.** 5 poles

Insulated cross-connector ZQI

**Cat. no.** 6 poles

Insulated cross-connector ZQI

**Cat. no.** 7 poles

Insulated cross-connector ZQI

**Cat. no.** 8 poles

Insulated cross-connector ZQI

**Cat. no.** 9 poles

Insulated cross-connector ZQI

**Cat. no.** 10 poles

Insulated cross-connector ZQI

**Cat. no.** 99 poles

Four-way cover ZAD

**Cat. no.**

End stop ZES

**Cat. no.**

Test adapter ZTA

**Cat. no.**

Screwdriver / Metal actuating tool BWMA

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

IEC	CSAus	CSA
400	-	-
18	-	-
2.5   20-12		
6   3		
A3   V0		
0.5-4   -		
0.5-4   0.5-2.5		
0.08-4		
10		

IEC	CSAus	CSA
400	-	-
18	-	-
2.5   20-12		
6   3		
A3   V0		
0.5-4   -		
0.5-4   0.5-2.5		
0.08-4		
10		

IEC	CSAus	CSA
400	-	-
18	-	-
2.5   20-12		
6   3		
A3   V0		
0.5-4   -		
0.5-4   0.5-2.5		
0.08-4		
10		

PA 6.6 | -40 to +120°C

PA 6.6 | -40 to +120°C

PA 6.6 | -40 to +120°C

	Page	Qty.
ZAPT 2,5/2A BG	281	50
<b>3796.2</b>		
ZQI 2,5/2 YE	308	50
<b>3710.8</b>		
ZQI 2,5/3 YE	308	50
<b>3711.8</b>		
ZQI 2,5/4 YE	308	20
<b>3712.8</b>		
ZQI 2,5/5 YE	308	20
<b>3713.8</b>		
ZQI 2,5/6 YE	308	20
<b>3714.8</b>		
ZQI 2,5/7 YE	308	20
<b>3715.8</b>		
ZQI 2,5/8 YE	308	10
<b>3716.8</b>		
ZQI 2,5/9 YE	308	10
<b>3717.8</b>		
ZQI 2,5/10 YE	308	10
<b>3718.8</b>		
ZQI 2,5/0.5 m/99 poles YE	308	1
<b>3719.8</b>		
ZAD 2,5/4/B YE	315	20
<b>3706.0</b>		
ZES 35 BG	275	20
<b>3748.2</b>		
ZTA 2,5	320	10
<b>3740.2</b>		
BWMA 1 (0.5x3.5mm)	328	1
<b>3808.0</b>		
PMC SB 5/50 WH	339	500
<b>4600.7</b>		

	Page	Qty.
ZAPT 2,5/3A BG	281	50
<b>3797.2</b>		
ZQI 2,5/2 YE	308	50
<b>3710.8</b>		
ZQI 2,5/3 YE	308	50
<b>3711.8</b>		
ZQI 2,5/4 YE	308	20
<b>3712.8</b>		
ZQI 2,5/5 YE	308	20
<b>3713.8</b>		
ZQI 2,5/6 YE	308	20
<b>3714.8</b>		
ZQI 2,5/7 YE	308	20
<b>3715.8</b>		
ZQI 2,5/8 YE	308	10
<b>3716.8</b>		
ZQI 2,5/9 YE	308	10
<b>3717.8</b>		
ZQI 2,5/10 YE	308	10
<b>3718.8</b>		
ZQI 2,5/0.5 m/99 poles YE	308	1
<b>3719.8</b>		
ZAD 2,5/4/B YE	315	20
<b>3706.0</b>		
ZES 35 BG	275	20
<b>3748.2</b>		
ZTA 2,5	320	10
<b>3740.2</b>		
BWMA 1 (0.5x3.5mm)	328	1
<b>3808.0</b>		
PMC SB 5/50 WH	339	500
<b>4600.7</b>		

	Page	Qty.
ZAPT 2,5/4A BG	281	50
<b>3798.2</b>		
ZQI 2,5/2 YE	308	50
<b>3710.8</b>		
ZQI 2,5/3 YE	308	50
<b>3711.8</b>		
ZQI 2,5/4 YE	308	20
<b>3712.8</b>		
ZQI 2,5/5 YE	308	20
<b>3713.8</b>		
ZQI 2,5/6 YE	308	20
<b>3714.8</b>		
ZQI 2,5/7 YE	308	20
<b>3715.8</b>		
ZQI 2,5/8 YE	308	10
<b>3716.8</b>		
ZQI 2,5/9 YE	308	10
<b>3717.8</b>		
ZQI 2,5/10 YE	308	10
<b>3718.8</b>		
ZQI 2,5/0.5 m/99 poles YE	308	1
<b>3719.8</b>		
ZAD 2,5/4/B YE	315	20
<b>3706.0</b>		
ZES 35 BG	275	20
<b>3748.2</b>		
ZTA 2,5	320	10
<b>3740.2</b>		
BWMA 1 (0.5x3.5mm)	328	1
<b>3808.0</b>		
PMC SB 5/50 WH	339	500
<b>4600.7</b>		



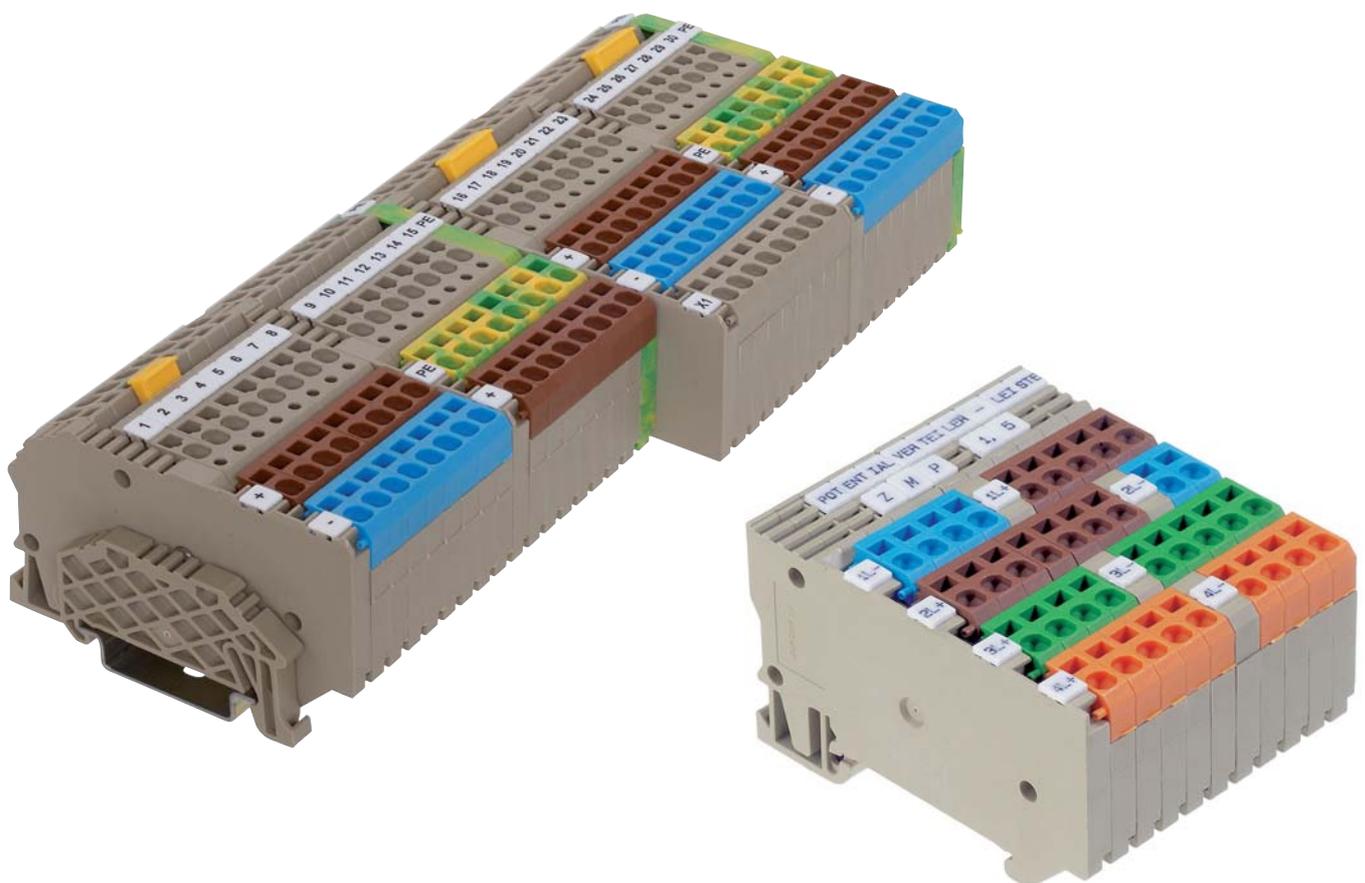
Initiator terminals / Actuator terminals ZINI/ZAKTO | Potential distribution system ZMP



In order to start-up electromechanical functions in machinery and facilities, a link must be established from signal emitters (such as initiators, limit switches and pressure monitors), actuators (such as valves) and alert sources (such as indicator lights and flashing beacons) with the controller. These signals are consolidated in decentralized units in order to reduce the wiring overhead and speed up the troubleshooting process. Exacting demands are placed on the connection system that is used in the cramped, hard-to-reach installations for machinery and facilities.

Our **ZINI/ZAKTO** – consisting of the **ZIZA** base terminals and the **ZPL** potential distribution strip – is perfectly suited for such exacting requirements. The **ZIZA** base terminal is designed to feed the sense/control signal level through. It enables the attachment of **ZPL** potential distribution strips (plus, minus and PE potentials). The potential distribution strip consists of a individual slice each having one electrical connection. Depending on the application, these individual slices can be linked to achieve the required number of poles. No additional cross-connector is needed since the potential distribution strip established its own electrical cross-connection using the base terminal.

The **ZMP 1,5** potential distribution system makes it possible for the encoder, input, and control voltages (required centrally) to distribute their voltage supplies. It is easy to work with because of the modular design. The number of poles required is determined by the user's application. The **ZMP** consists of **ZMP 1,5** base terminals with four slots for plugging in the **ZPL** potential distribution strips. The patented, integrated cross-connection system on the **ZPL** potential distribution strip results in reduced costs and less time spent with cross-connections. The potential distribution strips are colour-coded (beige, reddish brown, blue, green-yellow, yellow, green, orange and red). Four potentials – together with the **ZBA** labelling adapters – can be led in parallel in addition to many adjacent potentials. The system is compact, modular, and easy to work with. It is designed for 400 V and a current of 17.5 A. The **PMC SB** and **PMC BSTR** quick marking systems can be used for clear and convenient labelling on the **ZMP 1,5** base terminals and on the **ZBA** labelling adapters.

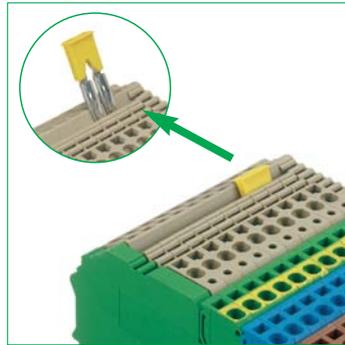


# Initiator terminals / Actuator terminals ZINI/ZAKTO | Potential distribution system ZMP

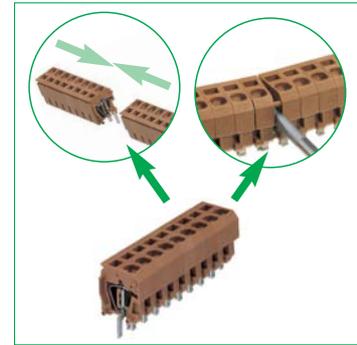
## Features and advantages

### ZINI | ZAKTO

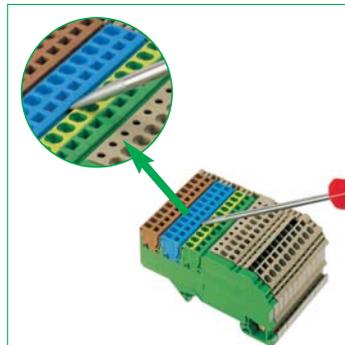
- Small size of connection mechanism
- PE connection is possible
- Concise labelling
- Connection of initiators and actuators
- A modular system for encoder and control signals
- 3- and 4-pole base terminals can be linked together to the required number of poles
- Potential distribution strips are colour-coded
- Compact design
- Available with or without status display
- The signal level can be cross-connected
- Potential distribution strip does not require additional cross-connection
- Quick assembly with top-down wire connection (TOP connection)
- Rated voltage of 400 V
- Available as individual terminal or assembled block terminal



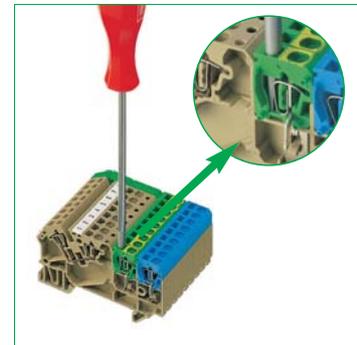
Pluggable cross-connection system **ZQI**, for the signal level, 2-10 poles (only **ZINI/ZAKTO**).



Potential distribution strip is simple to link and separate.



The **ZPL** potential distribution strip is easy to plug in or remove from the base terminal.



The TOP connection is easy to operate in cramped working conditions.

### ZMP 1,5

- Small size of connection mechanism
- Potential distribution strips are colour-coded
- Compact design
- Quick assembly with top-down wire connection (TOP connection)
- Rated voltage of 400 V

### Block variants ZIZA

The individual terminals of the block variants are connected underneath each other with pegs. This results in increased design stability compared with individual terminals. All CONTA-CLIP block variants can be snapped on using their two snap-on feet on both the left and right sides of the terminals – for a quick and easy attachment with only one grip required. Removing the blocks is just as quick – using the connected feet with the help of a screw-

driver. The standard block variants are available with 8, 9, 16 and 17 poles, as well as customer-specific versions up to 32 poles. The advantage of the block variants over the individual terminals is not only their better mechanical stability. They also help you to reduce inventory and installation times and thus lower your costs!

Initiator terminals / Actuator terminals ZINI/ZAKTO | Potential distribution system ZMP 1,5

Configuration options

ZINI/ ZAKTO	Base terminal ZIZA 1,5/3 3-wire	Base terminal ZIZA 1,5/3/LD 3-wire LED	Base terminal ZIZA 1,5/3 PE 3-wire	Base terminal ZIZA 1,5/4 4-wire	Base terminal ZIZA 1,5/4/LD 4-wire LED	Base terminal ZIZA 1,5/4/PE 4-wire LED
Configuration options for the <b>ZINI/ ZAKTO</b> individual components						
<b>Cat. no.</b>	<b>3528.2</b>	<b>3530.2</b>	<b>3532.2</b>	<b>3533.2</b>	<b>3536.2</b>	<b>3537.2</b>
3-wire initiator						
3-wire actuator						
3-wire initiator with PE						
<b>ZMP</b>	<b>Base terminal ZMP 1,5</b>					
Configuration options for the <b>ZMP</b> individual components						
<b>ZINI/ZAKTO labelling adapter ZBA</b>						
Additional labelling options	The <b>ZBA</b> labelling adapter is used to label the side-by-side ZPL potential distribution strips. The ZBA is also used to separate two different potentials within the ZPL slot on the base terminals.		In contrast to the ZBA 2, the <b>ZBA 2/Z</b> has pegs which form a mechanical (but electrically-separated) connection within a receiving channel!			The <b>ZBA 2/Z/H</b> features a larger labelling surface which also simplifies the task of separating the contact on the ZPL potential distribution strip from the base terminals!

Potential distribution strips								PE				End plates
ZPL 1,5 beige	ZPL 1,5 red-brown	ZPL 1,5 blue	ZPL 1,5 yellow	ZPL 1,5 green	ZPL 1,5 orange	ZPL 1,5 red	ZPL 1,5 yellow/green	ZBA 2	ZBA 2/Z	ZBA 2/Z/H		
											ZAP/TW 1,5/3 3746.2	
3738.2	3739.6	3742.5	3791.8	3792.1	3793.3	3739.9	3743.2	3786.2	3787.2	17036.2	ZAP/TW ZIZA 1,5/4 3747.2	
											ZAP/TW 1,5/3 3746.2	
											ZAP/TW ZIZA 1,5/4 3747.2	
											ZAP/TW 1,5/3 3746.2	
											ZAP/TW ZIZA 1,5/4 3747.2	
											ZAP/TW 1,5/3 3746.2	
											ZAP/TW ZIZA 1,5/4 3747.2	

Potential distribution strips							PE				End plates
ZPL 1,5 beige	ZPL 1,5 red-brown	ZPL 1,5 blue	ZPL 1,5 yellow	ZPL 1,5 green	ZPL 1,5 orange	ZPL 1,5 red	ZPL 1,5 yellow/green	ZBA 2	ZBA 2/Z	ZBA 2/Z/H	
											ZAP/ZMP 3785.2

**CAUTION! Because of their construction, the following must be observed for ZINI/ZAKTO:**

**Procedure for using PE base terminals**

If the open side of the PE base terminal faces the right, then this must be set as the "first". If the open side of the PE base terminal faces the left, then this must be set on the end.

- The PE-potential distribution strip must (when needed) be inserted into the first position on the base terminal (directly adjacent to the signal level).
- When working with mixed assemblies (both 3- and 4-pole base terminals), the 3-pole terminal must be placed before the 4-pole terminal.

Initiator terminals | Actuator terminals ZIZA

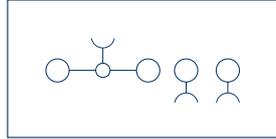
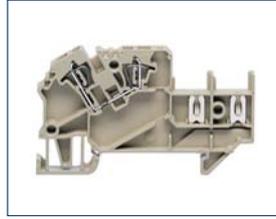
Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

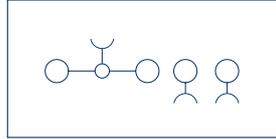
Connection diagram

ZIZA 1,5/3



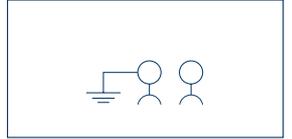
Initiator / actuator terminals, 4 connections

ZIZA 1,5/3/LED



Initiator / actuator terminals, 4 connections

ZIZA 1,5/3/PE



Initiator / actuator terminals, 2 connections

Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Tension-spring

68.7 x 5.1 x 40.5

Tension-spring

68.7 x 5.1 x 40.5

Tension-spring

68.7 x 5.1 x 40.5

Type

Type colour

Cat. no.

Type Block variants / individual terminals

Cat. no.

Type Block variants / individual terminals

Cat. no.

Type Block variants / individual terminals

Cat. no.

Colours available

Rated data, in compliance

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Qty.

ZIZA 1,5/3 BG

3528.2

100

ZIZA 1,5/3/B BG

3529.2

50

Qty.

ZIZA 1,5/3/LED (RD) BG

3530.2

100

ZIZA 1,5/3/B/LED (RD) BG

3531.2

50

Qty.

ZIZA 1,5/3/PE GNYE

3532.2

20

②

IEC

CSAus

CSA

400

300

300

17.5

12.5

12.5

1.5 | 26-14

4 | 3

A1 | V0

0.5-2.5 | -

0.5-2.5 | 0.5-1.5

0.08-2.5

8

②

IEC

CSAus

CSA

400

300

300

17.5

12.5

12.5

1.5 | 26-14

4 | 3

A1 | V0

0.5-2.5 | -

0.5-2.5 | 0.5-1.5

0.08-2.5

8

②

IEC

CSAus

CSA

1.5 | 26-14

4 | 3

A1 | V0

0.5-2.5 | -

0.5-2.5 | 0.5-1.5

8

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +120°C

1 | -

PA 6.6 | -40 to +120°C

1 | -

PA 6.6 | -40 to +120°C

-

Accessories

ZAP end plate

Cat. no.

Label holder ZBA 2

Cat. no.

Label holder ZBA 2/Z

Cat. no.

Potential distribution strip ZPL

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

Page Qty.

ZAP/TW ZIZA 1,5/3 BG

3746.2

281

ZBA 2 BG

3786.2

315

ZBA 2/Z BG

3787.2

315

ZPL 1,5 BG

3738.2

175

ZPL 1,5 RB

3739.6

174

ZPL 1,5 RD

3729.9

174

ZPL 1,5 BU

3742.5

174

ZPL 1,5 PE GNYE

3743.2

174

ZPL 1,5 OG

3793.3

174

ZPL 1,5 YE

3791.8

174

ZPL 1,5 GN

3792.1

174

ZQI 2,5/2 YE

3710.8

308

xx

ZQI 2,5/0.5w/99p YE

3719.8

308

xx

ZES 35 BG

3748.2

275

50

ZTA 1,5

17034.2

320

10

SDB 0,5x3,0

1085.0

422

1

PMC SB 5/50 WH

4600.7

339

500

Page Qty.

ZAP/TW ZIZA 1,5/3 BG

3746.2

281

ZBA 2 BG

3786.2

315

ZBA 2/Z BG

3787.2

315

ZPL 1,5 BG

3738.2

175

ZPL 1,5 RB

3739.6

174

ZPL 1,5 RD

3729.9

174

ZPL 1,5 BU

3742.5

174

ZPL 1,5 PE GNYE

3743.2

174

ZPL 1,5 OG

3793.3

174

ZPL 1,5 YE

3791.8

174

ZPL 1,5 GN

3792.1

174

ZQI 2,5/2 YE

3710.8

308

xx

ZQI 2,5/0.5w/99p YE

3719.8

308

xx

ZES 35 BG

3748.2

275

50

ZTA 1,5

17034.2

320

10

SDB 0,5x3,0

1085.0

422

1

PMC SB 5/50 WH

4600.7

339

500

Page Qty.

ZAP/TW ZIZA 1,5/3 BG

3746.2

281

ZBA 2 BG

3786.2

315

ZBA 2/Z BG

3787.2

315

ZPL 1,5 BG

3738.2

175

ZPL 1,5 RB

3739.6

174

ZPL 1,5 RD

3729.9

174

ZPL 1,5 BU

3742.5

174

ZPL 1,5 PE GNYE

3743.2</

ZIZA 1,5/4			ZIZA 1,5/4/LED			ZIZA 1,5/4/PE			ZMP 1,5			ZPL 1,5		
Initiator / actuator terminals, 5 connections			Initiator / actuator terminals, 5 connections			Initiator / actuator terminals, 3 connections			Patch panel, 4 connections			Potential distribution strip		
<b>Tension-spring</b> 82 x 5.1 x 40.5			<b>Tension-spring</b> 82 x 5.1 x 40.5			<b>Tension-spring</b> 82 x 5.1 x 40.5			<b>Tension-spring</b> 68.7 x 5.1 x 40.5			<b>Tension-spring</b>		
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>		
ZIZA 1,5/4 BG <b>3533.2</b> 100			ZIZA 1,5/4/LED (RD) BG <b>3536.2</b> 100			ZIZA 1,5/4/PE GNYE <b>3537.2</b> 20			ZMP 1,5 BG <b>3596.2</b> 50			ZPL 1,5 BG <b>3738.2</b> 100		
ZIZA 1,5/4/B <b>3534.2</b> 50			ZIZA 1,5/4/B/LED (RD) BG <b>3535.2</b> 50											
<b>IEC</b> <b>CSAus</b> <b>CSA</b>			<b>IEC</b> <b>CSAus</b> <b>CSA</b>			<b>IEC</b> <b>CSAus</b> <b>CSA</b>			<b>IEC</b> <b>CSAus</b> <b>CSA</b>			<b>IEC</b> <b>CSAus</b> <b>CSA</b>		
400 300 300			400 300 300			400 300 300			400 300 300			400 300 300		
17.5 12.5 12.5			17.5 12.5 12.5			17.5 12.5 12.5			17.5 12.5 12.5			17.5 12.5 12.5		
1.5   26-14			1.5   26-14			1.5   26-14			1.5   26-14			1.5   26-14		
4   3			4   3			4   3			4   3			4   3		
A1   V0			A1   V0			A1   V0			A1   V0			A1   V0		
0.5-2.5   -			0.5-2.5   -			0.5-2.5   -			0.5-2.5   -			0.5-2.5   -		
0.5-2.5   0.5-1.5			0.5-2.5   0.5-1.5			0.5-2.5   0.5-1.5			0.5-2.5   0.5-1.5			0.5-2.5   0.5-1.5		
0.08-2.5			0.08-2.5			0.08-2.5			0.08-2.5			0.08-2.5		
8			8			8			8			8		
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C		
1   -			1   -			-			-			-		
<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>			<b>Page Qty.</b>		
ZAP/TW ZIZA 1,5/4 BG <b>3747.2</b> 281 20			ZAP/TW ZIZA 1,5/4 BG <b>3747.2</b> 281 20			ZAP/TW ZIZA 1,5/4 BG <b>3747.2</b> 281 20			ZAP ZMP BG <b>3785.2</b> 281 20			ZBA 2 BG <b>3786.2</b> 315 50		
ZBA 2 BG <b>3786.2</b> 315 50			ZBA 2 BG <b>3786.2</b> 315 50						ZBA 2 BG <b>3786.2</b> 315 50			ZBA 2 BG <b>3786.2</b> 315 50		
ZBA 2/Z BG <b>3787.2</b> 315 50			ZBA 2/Z BG <b>3787.2</b> 315 50						ZBA 2/Z BG <b>3787.2</b> 315 50			ZBA 2/Z BG <b>3787.2</b> 315 50		
ZPL 1,5 BG <b>3738.2</b> 175 100			ZPL 1,5 BG <b>3738.2</b> 175 100						ZPL 1,5 BG <b>3738.2</b> 175 100					
ZPL 1,5 RB <b>3739.6</b> 174 100			ZPL 1,5 RB <b>3739.6</b> 174 100						ZPL 1,5 RB <b>3739.6</b> 174 100					
ZPL 1,5 RD <b>3729.9</b> 174 10			ZPL 1,5 RD <b>3739.9</b> 174 100			ZPL 1,5 RD <b>3729.9</b> 174 10			ZPL 1,5 BU <b>3742.5</b> 174 100					
ZPL 1,5 BU <b>3742.5</b> 174 100			ZPL 1,5 BU <b>3742.5</b> 174 100			ZPL 1,5 PE GNYE <b>3743.2</b> 174 100			ZPL 1,5 OG <b>3793.3</b> 174 100					
ZPL 1,5 PE GNYE <b>3743.2</b> 174 100			ZPL 1,5 PE GNYE <b>3743.2</b> 174 100						ZPL 1,5 YE <b>3791.8</b> 174 100					
ZPL 1,5 OG <b>3793.3</b> 174 100			ZPL 1,5 OG <b>3793.3</b> 174 100						ZPL 1,5 GN <b>3792.1</b> 174 100					
ZPL 1,5 YE <b>3791.8</b> 174 100			ZPL 1,5 YE <b>3791.8</b> 174 100						ZQI 2,5/2 YE <b>3710.8</b> 308 xx					
ZPL 1,5 GN <b>3792.1</b> 174 100			ZPL 1,5 GN <b>3792.1</b> 174 100						ZQI 2,5/0.5w/99p YE <b>3719.8</b> 308 xx					
ZQI 2,5/2 YE <b>3710.8</b> 308 xx			ZQI 2,5/2 YE <b>3710.8</b> 308 xx						ZES 35 BG <b>3748.2</b> 275 50					
ZQI 2,5/0.5w/99p YE <b>3719.8</b> 308 xx			ZQI 2,5/0.5w/99p YE <b>3719.8</b> 308 xx						ZTA 1,5 <b>17034.2</b> 320 10					
ZES 35 BG <b>3748.2</b> 275 50			ZES 35 BG <b>3748.2</b> 275 50			ZES 35 BG <b>3748.2</b> 275 50			ZTA 1,5 <b>17034.2</b> 320 10					
ZTA 1,5 <b>17034.2</b> 320 10			ZTA 1,5 <b>17034.2</b> 320 10			SDB 0,5x3,0 <b>1085.0</b> 422 1			SDB 0,5x3,0 <b>1085.0</b> 422 1			SDB 0,5x3,0 <b>1085.0</b> 422 1		
SDB 0,5x3,0 <b>1085.0</b> 422 1			SDB 0,5x3,0 <b>1085.0</b> 422 1			PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500		
PMC SB 5/50 WH <b>4600.7</b> 339 500			PMC SB 5/50 WH <b>4600.7</b> 339 500											

Initiator terminals / Actuator terminals block version ZIZA

Tension-spring connection system



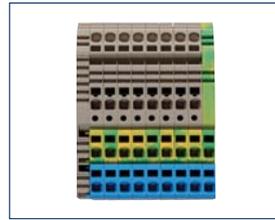
- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

Connection diagram

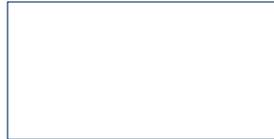
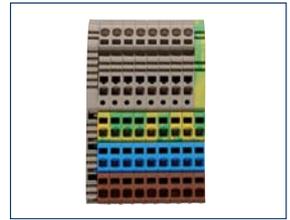
ZIZA 1,5/3/.../POL



ZIZA 1,5/3/.../POL/PE



ZIZA 1,5/4/.../POL/PE



Terminal block  
4 connections per signal



Terminal block  
4 connections per signal



Terminal block, 5 connections per signal

Connection type

Size (L x W x H) with TS 35 x 7.5, mm

Type

Type colour

Cat. no.

Type Block variants / individual terminals

Cat. no.

Type Block variants / individual terminals

Cat. no.

Type Block variants / individual terminals

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Tension-spring

68.7 x X x 40.5

Tension-spring

68.7 x X x 40.5

Tension-spring

82.5 x X x 40.5

Qty.

ZIZA 1,5/3/9 POL

3641.2 5

ZIZA 1,5/3/9 POL/LED (RD)

3642.2 5

ZIZA 1,5/3/17 POL

3643.2 1

ZIZA 1,5/3/17 POL/LED (RD)

3644.2 1

②

IEC CSAAus CSA

400 300 300

17.5 12.5 12.5

1.5 | 26-14

4 | 3

A1 | V0

0.5-2.5 | -

0.5-2.5 | 0.5-1.5

0.08-2.5

8

Qty.

ZIZA 1,5/3/8 POL/PE

3550.2 5

ZIZA 1,5/3/8 POL/LED (RD)/PE

3551.2 5

ZIZA 1,5/3/16 POL/PE

3554.2 1

ZIZA 1,5/3/16 POL/LED (RD)/PE

3555.2 1

②

IEC CSAAus CSA

400 300 300

17.5 12.5 12.5

1.5 | 26-14

4 | 3

A1 | V0

0.5-2.5 | -

0.5-2.5 | 0.5-1.5

0.08-2.5

8

Qty.

ZIZA 1,5/4/8 POL/PE

3556.2 5

ZIZA 1,5/4/8 POL/LED (RD)/PE

3557.2 5

ZIZA 1,5/4/16 POL/PE

3560.2 1

ZIZA 1,5/4/16 POL/LED (RD)/PE

3561.2 1

②

IEC CSAAus CSA

400 300 300

17.5 12.5 12.5

1.5 | 26-14

4 | 3

A1 | V0

0.5-2.5 | -

0.5-2.5 | 0.5-1.5

0.08-2.5

8

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

ZAP end plate

Cat. no.

Label holder ZBA 2

Cat. no.

Label holder ZBA 2/Z

Cat. no.

Potential distribution strip ZPL

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

PA 6.6 | -40 to +120°C

1 | -

Page Qty.

PA 6.6 | -40 to +120°C

1 | -

Page Qty.

PA 6.6 | -40 to +120°C

1 | -

Page Qty.

ZQI 2,5/2 YE

3710.8 308 50

ZQI 2,5/0.5w/99p YE

3719.8 308 1

ZES 35 BG

3748.2 275 50

ZTA 1,5

17034.2 320 10

SDB 0,5x3,0

1085.0 422 1

PMC SB 5/50 WH

4600.7 339 500

ZQI 2,5/2 YE

3710.8 308 50

ZQI 2,5/0.5w/99p YE

3719.8 308 1

ZES 35 BG

3748.2 275 50

ZTA 1,5

17034.2 320 10

SDB 0,5x3,0

1085.0 422 1

PMC SB 5/50 WH

4600.7 339 500

ZQI 2,5/2 YE

3710.8 308 50

ZQI 2,5/0.5w/99p YE

3719.8 308 1

ZES 35 BG

3748.2 275 50

ZTA 1,5

17034.2 320 10

SDB 0,5x3,0

1085.0 422 1

PMC SB 5/50 WH

4600.7 339 500



## Compact terminal series for direct mounting ZSRK / ZSLN

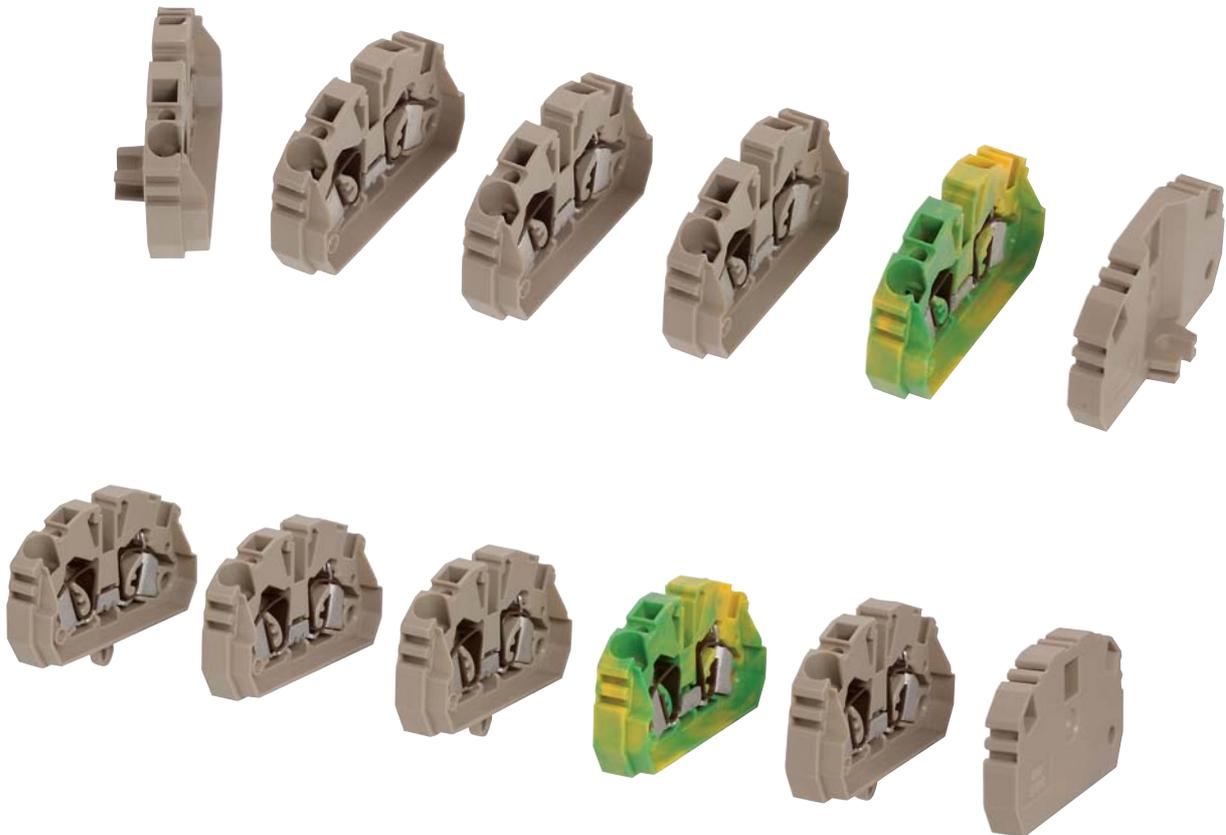


The **ZSRK 2,5/2A/D/F** and **ZSRK 2,5/2A/RC** are direct-mount tension-spring terminals with interior cross-connection channels. They have a compact, modular design with a clamping range of 0.08 - 2.5 mm<sup>2</sup> and a rated voltage of 800 V. They allow you to mount a terminal block with the number of poles you need. This block can then be directly screwed on to the mounting plate (with the **ZSRK 2,5/2A/D/F**) or directly snapped on (with the **ZSRK 2,5/2A/RC**).

These direct-mount terminals can be used for series production and for installations in cramped working conditions.

Individual connection groupings or circuits can be visually separated from one other by the different housing colours. Potentials can be multiplied via the interior cross-connection channel with the **ZQI 2,5** standard cross-connections (available in 2 – 10 poles and 99 poles).

It is possible to label with the **SB** or **PMC** quick marking systems at each clamping point. If a cross-connection is not being used, that cross-connection channel can be used instead as a labelling channel. Clarity for wiring is ensured with a terminal width of only 5 mm and the tension-spring TOP connection.



## Compact terminal series for direct mounting ZSRK | ZSLN

### The features in detail

#### Direct-mount snap-in clip

The **ZSRK 2,5/2A/D/RC** terminal is attached to the start and end of the terminal block. The **ZSRK 2,5/2A/D** (corresponding to the number of poles required) is positioned between these two terminals. For terminal blocks with more than six poles, we recommend mounting a ZSRK **2,5/2A/D/RC** between the **ZSRK 2,5/2A/D**s. This ensures proper mechanical support. The **ZAP-SR/RC** end plate is then snapped on to the end of this terminal block.



**ZSRK 2,5** direct-mount with snap-in clip

#### Direct-mount screw flange

The **ZSRK 2,5/2A/D/F** terminal is mounted at the start of the terminal block and aligned with the **ZSRK 2,5/2A/D** terminals to the required number of poles. A **ZEH 1** end support is then snapped on to the end of this block. The starting terminal and the end support both have a screw flange so that the terminal block can be screwed directly on to the mounting surface using an M3 screw.



**ZSRK 2,5** direct-mount with screw flange

Feed-through terminal ZSRK | Protective earth terminals ZSLN for direct mounting

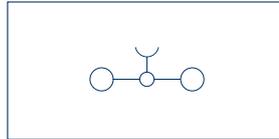
Tension-spring connection system



- Direct mounting / snap-in clip / Screw flange
- Housing made from polyamide 6.6 UL 94-V0

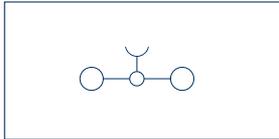
Connection diagram

ZSRK 2,5/2A/D



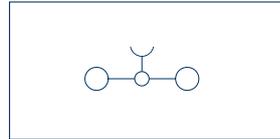
Feed-through terminal  
2 connections

ZSLN 2,5/2A/D



Feed-through terminal  
GNYE, 2 connections

ZSRK 2,5/2A-RC



Feed-through terminal with  
snap-in clip, 2 connections

Connection type

Size (L x W x H) direct mounting

Type

Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**

Colours available

Ratings

Rated voltage, V  
Rated current, A  
Rated wire cross-section, mm<sup>2</sup> | AWG  
Rated impulse voltage, kV | Contamination degree  
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>  
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>  
Contact wire range, mm<sup>2</sup>  
Stripping length, mm

Features

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

Accessories

ZAP end plate  
**Cat. no.**  
Insulated cross-connector ZQI  
**Cat. no.** 2 poles  
Insulated cross-connector ZQI  
**Cat. no.** 3 poles  
Insulated cross-connector ZQI  
**Cat. no.** 4 poles  
Insulated cross-connector ZQI  
**Cat. no.** 5 poles  
Insulated cross-connector ZQI  
**Cat. no.** 6 poles  
Insulated cross-connector ZQI  
**Cat. no.** 7 poles  
Insulated cross-connector ZQI  
**Cat. no.** 8 poles  
Insulated cross-connector ZQI  
**Cat. no.** 9 poles  
Insulated cross-connector ZQI  
**Cat. no.** 10 poles  
Insulated cross-connector ZQI  
**Cat. no.**  
Four-way cover ZAD  
**Cat. no.**  
.Metal actuating tool BWMA  
**Cat. no.**  
Quick marking PMC SB  
**Cat. no.**  
Test plug  
**Cat. no.**

Tension-spring

40 x 5.1 x 24

Qty.

ZSRK 2,5/2A-D BG  
**3588.2** 100  
ZSRK 2,5/2A-D BU  
**3588.5** 100  
ZSRK 2,5/2A-D OG  
**3588.3** 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAUs CSA

800 300 300  
24 20 20  
2.5 | 20-12  
8 kV | 3  
A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZQI 2,5/2 YE  
**3710.8** 308 50  
ZQI 2,5/3 YE  
**3711.8** 308 50  
ZQI 2,5/4 YE  
**3712.8** 308 20  
ZQI 2,5/5 YE  
**3713.8** 308 20  
ZQI 2,5/6 YE  
**3714.8** 308 20  
ZQI 2,5/7 YE  
**3715.8** 308 20  
ZQI 2,5/8 YE  
**3716.8** 308 10  
ZQI 2,5/9 YE  
**3717.8** 308 10  
ZQI 2,5/10 YE  
**3718.8** 308 10  
ZQI 2,5/0.5 m/99 poles YE  
**3719.8** 308 1  
ZAD 2,5/4/B YE  
**3706.0** 315 20  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500  
ZTA 2,5  
**3740.2** 320 10

Tension-spring

40 x 5.1 x 24

Qty.

ZSLN 2,5/2A-D GNYE  
**3638.2** 100

②

IEC CSAUs CSA

800 300 300  
24 20 20  
2.5 | 20-12  
8 kV | 3  
A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZQI 2,5/2 YE  
**3710.8** 308 50  
ZQI 2,5/3 YE  
**3711.8** 308 50  
ZQI 2,5/4 YE  
**3712.8** 308 20  
ZQI 2,5/5 YE  
**3713.8** 308 20  
ZQI 2,5/6 YE  
**3714.8** 308 20  
ZQI 2,5/7 YE  
**3715.8** 308 20  
ZQI 2,5/8 YE  
**3716.8** 308 10  
ZQI 2,5/9 YE  
**3717.8** 308 10  
ZQI 2,5/10 YE  
**3718.8** 308 10  
ZQI 2,5/0.5 m/99 poles YE  
**3719.8** 308 1  
ZAD 2,5/4/B YE  
**3706.0** 315 20  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500  
ZTA 2,5  
**3740.2** 320 10

Tension-spring

40 x 5.1 x 24

Qty.

ZSRK 2,5/2A-RC BG  
**3587.2** 100  
ZSRK 2,5/2A-RC BU  
**3587.5** 100  
ZSRK 2,5/2A-RC OG  
**3587.3** 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAUs CSA

800 300 300  
24 20 20  
2.5 | 20-12  
8 kV | 3  
A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

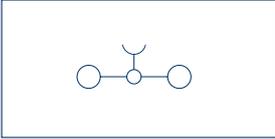
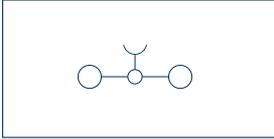
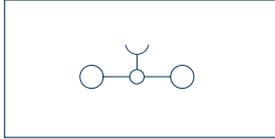
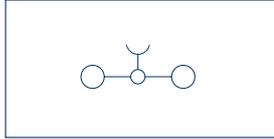
10

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZAP SR/RC BG  
**3758.2** 280 50  
ZQI 2,5/2 YE  
**3710.8** 308 50  
ZQI 2,5/3 YE  
**3711.8** 308 50  
ZQI 2,5/4 YE  
**3712.8** 308 20  
ZQI 2,5/5 YE  
**3713.8** 308 20  
ZQI 2,5/6 YE  
**3714.8** 308 20  
ZQI 2,5/7 YE  
**3715.8** 308 20  
ZQI 2,5/8 YE  
**3716.8** 308 10  
ZQI 2,5/9 YE  
**3717.8** 308 10  
ZQI 2,5/10 YE  
**3718.8** 308 10  
ZQI 2,5/0.5 m/99 poles YE  
**3719.8** 308 1  
ZAD 2,5/4/B YE  
**3706.0** 315 20  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500  
ZTA 2,5  
**3740.2** 320 10

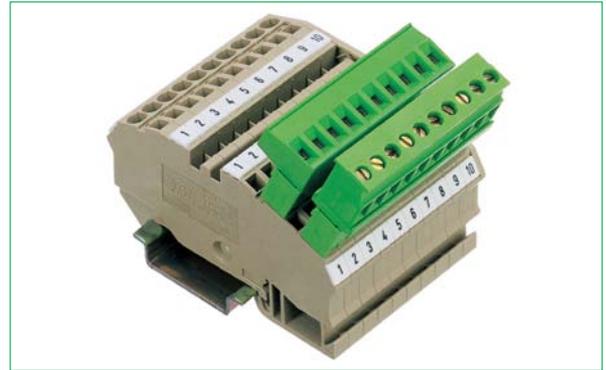
ZSLN 2,5/2A/RC	ZSRK 2,5/2A-D/F	ZSLN 2,5/2A-D/F	ZEH 1	
				
				
Feed-through terminal with snap-in clip, GN/YE, 2 connections	Feed-through terminal with screw flange, 2 connections	Feed-through terminal with screw flange, GN/YE, 2 connections	End support with screw flange	
<b>Tension-spring</b>	<b>Tension-spring</b>	<b>Tension-spring</b>	<b>Tension-spring</b>	
40 x 5.1 x 24	40 x 11.1 x 24	40 x 11.1 x 24	40 x 11.1 x 24	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZSLN 2,5/2A-RC GN/YE <b>3639.2</b> 100	ZSRK 2,5/2A-D/F BG <b>3595.2</b> 50 ZSRK 2,5/2A-D/F BU <b>3595.5</b> 50 ZSRK 2,5/2A-D/F OG <b>3595.3</b> 50	ZSLN 2,5/2A-D/F GN/YE <b>3640.2</b> 50	ZEH 1 BG <b>3759.2</b> 50 ZEH 1 BU <b>3759.5</b> 50 ZEH 1 OG <b>3759.3</b> 50	
<b>IEC</b> <b>CSAus</b> <b>CSA</b>	<b>IEC</b> <b>CSAus</b> <b>CSA</b>	<b>IEC</b> <b>CSAus</b> <b>CSA</b>	<b>IEC</b> <b>CSAus</b> <b>CSA</b>	
2.5   20-12 8 kV   3 A3   V0	2.5   20-12 8 kV   3 A3   V0	2.5   20-12 8 kV   3 A3   V0		
0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10		
PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2		
<b>Page</b> <b>Qty.</b>	<b>Page</b> <b>Qty.</b>	<b>Page</b> <b>Qty.</b>	<b>Page</b> <b>Qty.</b>	
ZAP SR/RC GN <b>3758.1</b> 280 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50	ZQI 2,5/2 YE <b>3710.8</b> 308 50		
ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50	ZQI 2,5/3 YE <b>3711.8</b> 308 50		
ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20	ZQI 2,5/4 YE <b>3712.8</b> 308 20		
ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20	ZQI 2,5/5 YE <b>3713.8</b> 308 20		
ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20	ZQI 2,5/6 YE <b>3714.8</b> 308 20		
ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20	ZQI 2,5/7 YE <b>3715.8</b> 308 20		
ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10	ZQI 2,5/8 YE <b>3716.8</b> 308 10		
ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10	ZQI 2,5/9 YE <b>3717.8</b> 308 10		
ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10	ZQI 2,5/10 YE <b>3718.8</b> 308 10		
ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1	ZQI 2,5/0.5 m/99 poles YE <b>3719.8</b> 308 1		
ZAD 2,5/4/B YE <b>3706.0</b> 315 20	ZAD 2,5/4/B YE <b>3706.0</b> 315 20	ZAD 2,5/4/B YE <b>3706.0</b> 315 20		
BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1	BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1		
PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 5/50 WH <b>4600.7</b> 339 500	
ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10	ZTA 2,5 <b>3740.2</b> 320 10		

**Plug adapter for the ZRK tension-spring connection system in 5.08-mm pitch**

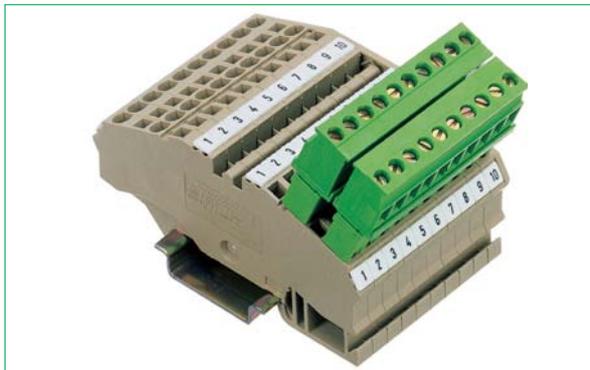
**CONTA-CONNECT together with CONTA-CON**



**ZRK 2,5/2A combined with the STL 950/10/5,08-G-L**



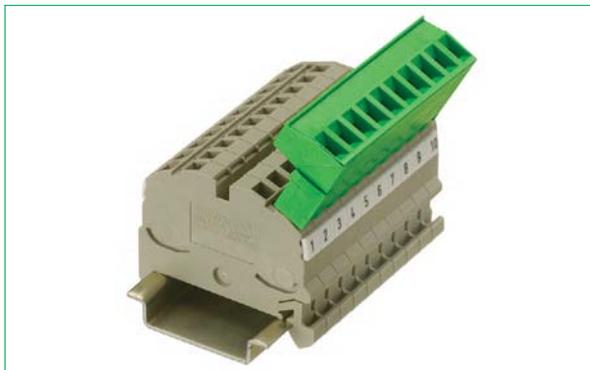
**ZRK 2,5/3A combined with the STL 950/10/5,08-G-L**



**ZRK 2,5/4A combined with the STL 950/10/5,08-G-L**



**ZRKD 2,5 combined with the STL 950/10/5,08-G-L**



**ZSRK 2,5/2A with STL 950/10/5,08-G-L**



**ZSRK 2,5/3A with the BW 10 actuating tool**

The standard **ZSRK 2,5**, **ZRK 2,5** and **ZRKD 2,5** tension-spring terminals from the **CONTA-CONNECT** line can be retroactively converted to pluggable versions by using the STL 950/.../5,08-V-G-L male pin headers.

It is quick and easy to connect each connection level with the pin header.

The BW actuating tool (available in 1 to 10 poles) can be used to open up to ten springs simultaneously. This simplifies and accelerates the installation process.

The combination of the **ZRK** tension-spring technology and the **CONTA-CON** PCB connectors results in a dramatic reduc-

tion in expensive final-assembly overhead. It also enables quick replacements during maintenance and commissioning work. Coding without pole loss is possible with all combinations. (Refer to the coding section of the **CONTA-CON** Catalogue.)

Note: With voltage up to 42 V, connectors may only be plugged in or disconnected when under no load. When assembling the output side of the tension-spring terminals with **STL 950/.../5,08-G-L** pin headers, the rated voltage must not exceed 50 V since the live-voltage pin headers offer no touch-safe protection when unplugged.

# Plug adapter for the ZRK tension-spring connection system in 5.08-mm pitch

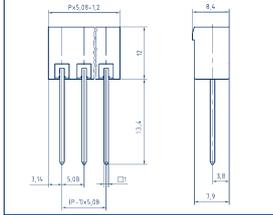
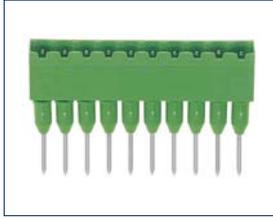
## Tension-spring connection system



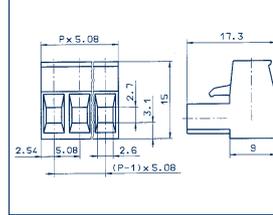
- colour: green, RAL 6018
- Housing made from polyamide 6.6 UL 94-V0

## Diagram

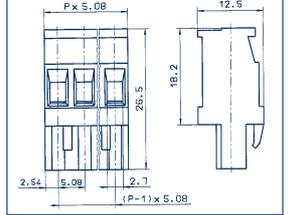
## STL 950/.../5,08-G-L



## PKB 950/.../5,08



## PKB 1100/.../5,08



## Dimensions

### Type

Cat. no.	Type colour	Poles
<b>Cat. no.</b>	Type colour	2 poles
<b>Cat. no.</b>	Type colour	3 poles
<b>Cat. no.</b>	Type colour	4 poles
<b>Cat. no.</b>	Type colour	5 poles
<b>Cat. no.</b>	Type colour	6 poles
<b>Cat. no.</b>	Type colour	7 poles
<b>Cat. no.</b>	Type colour	8 poles
<b>Cat. no.</b>	Type colour	9 poles
<b>Cat. no.</b>	Type colour	10 poles

Pole count x 5.08 + 1.2

Cat. no.	Qty.
STL 950/2/5,08-G-L GN	50
<b>13154.1</b>	
STL 950/3/5,08-G-L GN	50
<b>13155.1</b>	
STL 950/4/5,08-G-L GN	50
<b>13156.1</b>	
STL 950/5/5,08-G-L GN	50
<b>13157.1</b>	
STL 950/6/5,08-G-L GN	50
<b>13158.1</b>	
STL 950/7/5,08-G-L GN	50
<b>13159.1</b>	
STL 950/8/5,08-G-L GN	50
<b>13160.1</b>	
STL 950/9/5,08-G-L GN	50
<b>13161.1</b>	
STL 950/10/5,08-G-L GN	50
<b>13162.1</b>	

Pole count x 5.08

Cat. no.	Qty.
PKB 950/2/5,08 GN	50
<b>11230.1</b>	
PKB 950/3/5,08 GN	50
<b>11231.1</b>	
PKB 950/4/5,08 GN	50
<b>11232.1</b>	
PKB 950/5/5,08 GN	50
<b>11233.1</b>	
PKB 950/6/5,08 GN	50
<b>11234.1</b>	
PKB 950/7/5,08 GN	50
<b>11235.1</b>	
PKB 950/8/5,08 GN	50
<b>11236.1</b>	
PKB 950/9/5,08 GN	50
<b>11237.1</b>	
PKB 950/10/5,08 GN	50
<b>11238.1</b>	

Pole count x 5.08

Cat. no.	Qty.
PKB 1100/2/5,08 GN	50
<b>11305.1</b>	
PKB 1100/3/5,08 GN	50
<b>11306.1</b>	
PKB 1100/4/5,08 GN	50
<b>11307.1</b>	
PKB 1100/5/5,08 GN	50
<b>11308.1</b>	
PKB 1100/6/5,08 GN	50
<b>11309.1</b>	
PKB 1100/7/5,08 GN	50
<b>11310.1</b>	
PKB 1100/8/5,08 GN	50
<b>11311.1</b>	
PKB 1100/9/5,08 GN	50
<b>11312.1</b>	
PKB 1100/10/5,08 GN	50
<b>11313.1</b>	

## Colours available

### Ratings

Rated voltage, V	Rated current, A	Rated wire cross-section, mm <sup>2</sup>   AWG	Rated impulse voltage, kV   Contamination degree	Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94
250	12	-	4   3	- I V0

IEC	UL	VDE
250	300	250
12	15	12 (T60)

IEC	UL	VDE
250	300	250
12	15	12 (T60)

IEC	UL	VDE
250	300	250
12	15	12 (T60)

### Connection data

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	-
stranded   stranded (with ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	-
Contact wire range, mm <sup>2</sup>	-
Stripping length, mm	-
Torque, Nm   Screw	-
Special connection	-

0.2 - 2.5   -	0.2 - 2.5   0.2 - 2.5
0.08 - 2.5	0.08 - 2.5
6	7
0.5   Slotted M3	0.5   Slotted M3

0.2 - 2.5   -	0.2 - 2.5   0.2 - 2.5
0.08 - 2.5	0.08 - 2.5
6	7
0.5   Slotted M3	0.5   Slotted M3

0.2 - 2.5   -	0.2 - 2.5   0.2 - 2.5
0.08 - 2.5	0.08 - 2.5
7	7
0.5   Slotted M3	0.5   Slotted M3

### Features

Material of insulated housing   Temperature range	PA 6.6   -30 to +105°C
Number of cross-connection channels   Test pick-off option	-

PA 6.6   -30 to +105°C	PA 6.6   -30 to +105°C
-	-

PA 6.6   -30 to +105°C	PA 6.6   -30 to +105°C
-	-

PA 6.6   -30 to +105°C	PA 6.6   -30 to +105°C
-	-

### Accessories

Coding K	Page	Qty.
<b>Cat. no.</b>		
labelling card BK	-	100
<b>Cat. no.</b>		
labelling card BK	-	10
<b>Cat. no.</b>		
Dummy plug BLS	-	10
<b>Cat. no.</b>		
BLS-STL GN	-	100
<b>13284.1</b>		

Coding K	Page	Qty.
<b>Cat. no.</b>		
labelling card BK	-	100
<b>Cat. no.</b>		
labelling card BK	-	10
<b>Cat. no.</b>		
BLS-STL GN	-	10
<b>13284.1</b>		

Coding K	Page	Qty.
<b>Cat. no.</b>		
labelling card BK	-	100
<b>Cat. no.</b>		
labelling card BK	-	10
<b>Cat. no.</b>		
BLS-STL GN	-	10
<b>13284.1</b>		

Coding K	Page	Qty.
<b>Cat. no.</b>		
labelling card BK	-	100
<b>Cat. no.</b>		
labelling card BK	-	10
<b>Cat. no.</b>		
BLS-STL GN	-	10
<b>13284.1</b>		

### For terminal

ZSRK 2,5...	
ZSLN 2,5...	
ZRK 2,5...	
ZSL 2,5...	
ZRKD 2,5...	
ZSLD 2,5...	
ZIKD 2,5...	
ZTRK 2,5...	
ZVMAK 2,5	

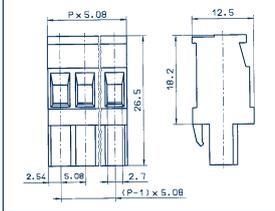
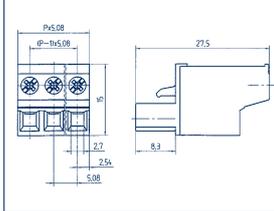
ZSRK 2,5...	
ZSLN 2,5...	
ZRK 2,5...	
ZSL 2,5...	
ZRKD 2,5...	
ZSLD 2,5...	
ZIKD 2,5...	
ZTRK 2,5...	
ZVMAK 2,5	

ZSRK 2,5...	
ZSLN 2,5...	
ZRK 2,5...	
ZSL 2,5...	
ZRKD 2,5...	
ZSLD 2,5...	
ZIKD 2,5...	
ZTRK 2,5...	
ZVMAK 2,5	

ZSRK 2,5...	
ZSLN 2,5...	
ZRK 2,5...	
ZSL 2,5...	
ZRKD 2,5...	
ZSLD 2,5...	
ZIKD 2,5...	
ZTRK 2,5...	
ZVMAK 2,5	

**Plug adapter for the ZRK tension-spring connection system in 5.08-mm pitch**

Tension-spring connection system	PKB 1110/.../5,08	PBT 1200/.../5,08	BW
			
Colour: green, RAL 6018 Housing made from polyamide 6.6 UL 94-V0			

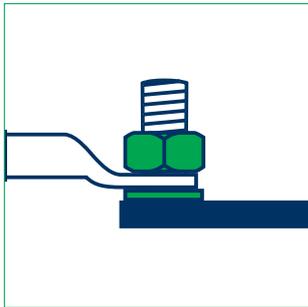
		
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Dimensions	Pole count x 5.08	Pole count x 5.08	-
Cat. no.	Qty.	Qty.	Qty.
Type colour	2 poles	2 poles	-
<b>Cat. no.</b>	PKB 1110/2/5,08 GN	PBT 1200/2/5,08 GN	BW 2 (ZRK)
Type colour	<b>11339.1</b>	<b>11354.1</b>	<b>3779.0</b>
	50	50	1
Type colour	3 poles	3 poles	-
<b>Cat. no.</b>	PKB 1110/3/5,08 GN	PBT 1200/3/5,08 GN	BW 3 (ZRK)
Type colour	<b>11340.1</b>	<b>11355.1</b>	<b>3780.0</b>
	50	50	1
Type colour	4 poles	4 poles	-
<b>Cat. no.</b>	PKB 1110/4/5,08 GN	PBT 1200/4/5,08 GN	BW 4 (ZRK)
Type colour	<b>11341.1</b>	<b>11356.1</b>	<b>3781.0</b>
	50	50	1
Type colour	5 poles	5 poles	-
<b>Cat. no.</b>	PKB 1110/5/5,08 GN	PBT 1200/5/5,08 GN	BW 5 (ZRK)
Type colour	<b>11342.1</b>	<b>11357.1</b>	<b>3782.0</b>
	50	50	1
Type colour	6 poles	6 poles	-
<b>Cat. no.</b>	PKB 1110/6/5,08 GN	PBT 1200/6/5,08 GN	BW 6 (ZRK)
Type colour	<b>11343.1</b>	<b>11358.1</b>	<b>3802.0</b>
	50	50	1
Type colour	7 poles	7 poles	-
<b>Cat. no.</b>	PKB 1110/7/5,08 GN	PBT 1200/7/5,08 GN	BW 7 (ZRK)
Type colour	<b>11344.1</b>	<b>11359.1</b>	<b>3803.0</b>
	50	50	1
Type colour	8 poles	8 poles	-
<b>Cat. no.</b>	PKB 1110/8/5,08 GN	PBT 1200/8/5,08 GN	BW 8 (ZRK)
Type colour	<b>11345.1</b>	<b>11360.1</b>	<b>3804.0</b>
	50	50	1
Type colour	9 poles	9 poles	-
<b>Cat. no.</b>	PKB 1110/9/5,08 GN	PBT 1200/9/5,08 GN	BW 9 (ZRK)
Type colour	<b>11346.1</b>	<b>11361.1</b>	<b>3805.0</b>
	50	50	1
Type colour	10 poles	10 poles	-
<b>Cat. no.</b>	PKB 1110/10/5,08 GN	PBT 1200/10/5,08 GN	BW 10 (ZRK)
Type colour	<b>11347.1</b>	<b>11362.1</b>	<b>3806.0</b>
	50	50	1

Colours available	①			①			①		
Ratings	IEC	UL	VDE	IEC	UL	VDE	IEC	UL	VDE
Rated voltage, V	250	300	250	250	300	250			
Rated current, A	12	15	12 (T60)	12	15	12 (T60)			
Rated wire cross-section, mm <sup>2</sup>   AWG	-	2,5   22-12	-	-	2,5   22-12	-			
Rated impulse voltage, kV   Contamination degree		4   3			4   3				
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94		- I V0			- I V0				
Connection data									
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.2 - 2.5   -			0.2 - 2.5   -					
stranded   stranded (with ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2 - 2.5   0.2 - 2.5			0.2 - 2.5   0.2 - 2.5					
Contact wire range, mm <sup>2</sup>	0.08 - 2.5			0.08 - 2.5					
Stripping length, mm	7			10					
Torque, Nm   Screw	0.5   Slotted M3			0.5   Slotted M2.5					
Special connection	-			-					
Features									
Material of insulated housing   Temperature range	PA 6.6   -30 to +105°C			PA 6.6   -30 to +105°C					
Number of cross-connection channels   Test pick-off option	-			-					
Accessories	Page Qty.			Page Qty.			Qty.		
Coding K	K2 RD			K1 RD					
<b>Cat. no.</b>	<b>12003.9</b>			<b>12002.9</b>					
labelling card BK	BK 1-12/5,08			BK 1-12/5,08					
<b>Cat. no.</b>	<b>2960.0</b>			<b>2960.0</b>					
labelling card BK	BK 13-24/5,08			BK 13-24/5,08					
<b>Cat. no.</b>	<b>2961.0</b>			<b>2961.0</b>					
Dummy plug BLS									
<b>Cat. no.</b>									
For terminal									



## Stud connection system HSK



The newest generation of stud terminals from **CONTA-CLIP** offers secure connections for all energy-transmitting applications. Depending on the conductor cross-section, stud terminals can be used with threaded studs from **M5** to **M12**. The rated current ranges from 76 A to 269 A with a rated voltage of 1000 V. The wire connection range is from 0,2 mm<sup>2</sup> to 120 mm<sup>2</sup>. Wires with crimped cable lugs are applied to threaded bolts and then connected securely by tightening the hex nut. Optimal security is guaranteed by the low voltage drop and by the use of self-extinguishing material with a V0 (UL94) flammability rating.

Designed for mounting onto **TS 35** DIN rails, the stud terminals can be adapted with accessories such as **TW** partitions and **AD** covers to suit application requirements. These products are easy to use. They also stand out with their cost-optimized line of accessories which results in reduced storage costs and assembly times.

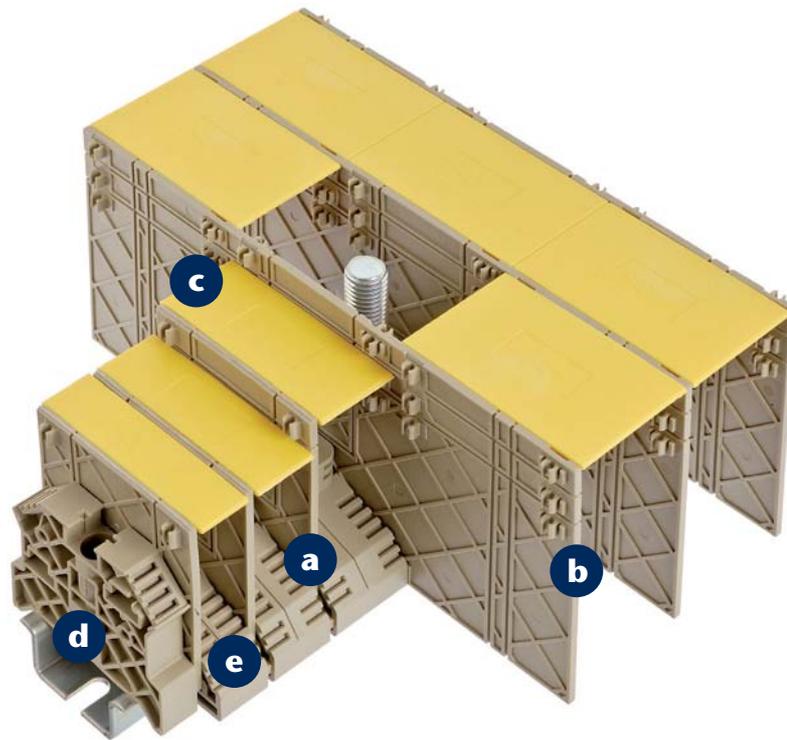


# Stud connection system HSK

## Features

**a Base terminal HSK**  
**CONTA-CLIP** stud terminals can be arranged as required on standard **TS 35** DIN rails in accordance with EN 60715.

**b Partition plates TW**  
Special **TW** partitions can be securely snapped into the terminal housing. This allows for good visual and electrical separation of the terminals. In addition, they are ready for fitting with snap-on covers.



**c Covers AD**  
The **AD** covers can be snapped on, simply and securely, to the matching clips in the partitions. In this quick and reliable way, touch-safe protection of the terminal points is always guaranteed.

**d End stop ES 35/K/ST**  
The **ES 35/K/ST** end stop grips both sides of the DIN rail with steel clamps. They are a secure method of mechanical attachment in terminal rail design. The plastic PA 6.6 housing of the brackets encapsulates the metal parts.

## Handling

### 1 Stud terminals:

Up to four wires can be connected easily. Cable lugs are crimped onto the wire ends to facilitate the connection. The cable lugs should be aligned opposite each other when there are multiple lugs per side. When the nut is tightened, the flats of the cable lugs clamp together and a secure connection is ensured.

### 2 Stud terminals:

Cable lugs are crimped onto the wire ends to facilitate the connection. The cable lugs are placed on the studs between the shake-proof washer and the busbar. The cable lugs should be aligned opposite each other when there are two lugs per stud. When the nut is tightened, the flats of the cable lugs clamp together and a secure connection is ensured.

**e Labelling | Marking**

The stud terminals have a labelling surface which is optimally suited for our Pocket-Maxicard **PMC (PMC BSTR 6/30)** standard marking systems.

## High-power stud terminals HSK

### The features in detail

#### Stud connection

- Stud sizes from M5 to M12
- Wire with cable lug acc. to DIN 46234 up to 120 mm<sup>2</sup>
- Up to four cable lugs per stud can be connected

#### Easy to use

- One-stud terminals: Put the cable lug on the stud between the base washer and the shake-proof washer
- Twin-stud terminals: Put the cable lug on the stud between the busbar and the shake-proof washer
- By tightening the steel nut, the cable lug forms a contact with the other cable lug or with the busbar.  
(B/B versions)



#### Cross-connections

- 2- and 3-pole designs
- Potential distribution between the different sizes is possible  
Designed for the rated current of the corresponding stud terminal
- Clearly saves time with quick potential distribution



#### Terminal carriers made from Polyamide 6.6 V0

- Self-extinguishing, UL94-V0 flammability class
- Creepage-current protected, CTI = 600
- Temperature resistance: -40° to +120°C
- Spec. contact resistance: 10<sup>13</sup> Ohm/cm
- Spec. surface resistance: 10<sup>15</sup> Ohm/cm
- Temp. index, mechanical: 120°C (at 0.8 mm)
- Temp. index, electrical: 120°C (at 0.8 mm)
- Relative temperature index, electrical: 130°C (at 0.8 mm)
- Pollutant-free



#### Secure handling

- Touch-protection provided by partitions and yellow covers

#### Secure contacts

- Maintenance-free, later tightening of the nut is not needed
- High contact strength and vibration resistance from the safety/spring washer
- Direct contact of cable lugs, or contact via copper busbar

#### Standards

The following standard terminal block requirements are fulfilled:

- EN 60947-7-1
- EN 50124-1
- DIN EN 61373

# High-power stud terminals HSK

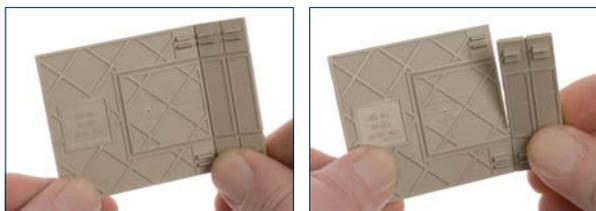
## Handling and accessories

### The use of TW partition plates

The **HSK...B** single-stud terminals and the **HSK...B/B** twin-stud versions make use of two **TW** partitions. The partitions can be adjusted to the rated cross-section by using the pre-determined breakage points. For your further assistance, the **TW** partitions list the cross-section range and additional dimension lines. Remember that the clearance and creepage distances for a rated voltage of 1000 V, dependent on the corresponding cross-section, must be followed.



HSK installed with TW partition plate and AD cover



Simple breaking off of the TW partition



TW partition with dimension lines

### Snapping on the partition plates to the HSK high-power stud terminals

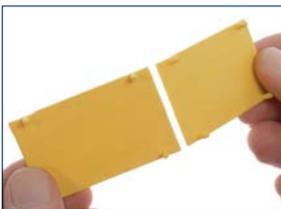
You can snap on the **TW** partition plates and the **HSK** stud terminals by using the locking pegs on the partition. The pegs lock into the foot of the stud terminals.



Snapping together the TW partition with a high-power HSK stud terminal

### Using the AD covers

An individual **AD** cover is available for each width of stud terminal. Their length takes into consideration the creepage and clearance distances on the twin-stud terminals. If the covers are to be used with the one-stud versions, you can shorten the cover by breaking it along the breakage points. For your further assistance, the **AD** covers have additional dimension lines on them. Locking pegs are used to mount the **AD** cover. The cover snaps in securely from above to the **TW** partition plates. Thus a high degree of touch-safety is guaranteed.



Simple breakage with the AD cover



AD cover with dimension lines

# High-power stud terminals HSK

## Stud connection system



- Foot can be snapped on TS 35 DIN rail
- Stud connection
- Housing made from polyamide 6.6 UL 94-V0



### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Size (L x W x H) with TS 35 x 7.5 mm with TW/AH

### Type

Type/colour

Cat. no.

Colours available

### Rated data, in compliance (Approvals on page xxx)

Rated voltage, V

Rated current, A

Rated cross-section mm<sup>2</sup>/AWG

Rated surge voltage kV / Contamination degree

Plug gauge acc. to EN 60947-1/flamm. class UL 94

### Connection data

Contact wire range, mm<sup>2</sup>

Stud size

### Clampable cable lug

DIN 46234/1 cable lug per side mm

DIN 46234/2 cable lugs per side mm

DIN 46235/1 cable lug per side mm

DIN 46235/2 cable lugs per side mm

Torque, Nm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

Partition plate TW up to 1000 V

Partition plate TW up to 1000 V for insul. cable lugs

AD cover profile

Cross-connector Q

Cross-connector Q

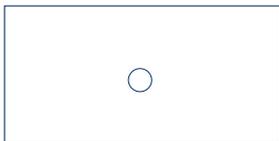
Cross-connector Q, from M6 to M8

Cross-connector Q, from M6 to M10

End stop ES

Quick marking PMC SB

## HSK 16/M5 B



High-power terminal  
1 connection

### Stud connection

67 x 13 x 55.5

67 x 13 x 58

### Qty.

HSK 16/M5 B BG

17000.2

10

②

IEC CSAus CSA

1000 1000 1000

76 60 60

16 | 10-0

8 | 3

- | V0

≤ 16

M5

0,1 - 16

0,1 - 16

6,0 - 10

6,0 - 10

2,0 - 4,0

8,5

PA 6.6 | -40 to +120°C

1 | -

Page Qty.

TW 16-120 BG

17018.2

316

20

AD 16 YE

17019.8

312

20

Q2/16

17008.0

298

10

Q3/16

17009.0

298

10

ES 35/K/ST BG

2828.0

274

50

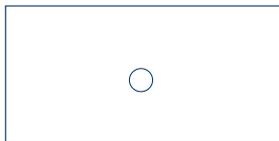
PMC SB 6/50 WH

4702.7

340

500

## HSK 35/M6 B



High-power terminal  
1 connection

### Stud connection

67 x 16 x 55.5

67 x 16 x 58

### Qty.

HSK 35/M6 B BG

17001.2

10

②

IEC CSAus CSA

1000 1000 1000

125 115 115

35 | 14-2

8 | 3

- | V0

≤ 35

M6

2,5 - 35

2,5 - 35

6,0 - 35

6,0 - 25

3,0 - 6,0

12,4

PA 6.6 | -40 to +120°C

1 | -

Page Qty.

TW 16-120 BG

17018.2

316

20

AD 35 YE

17020.8

312

20

Q2/35

17010.0

298

10

Q3/35

17011.0

298

10

Q2 HSK 35/M6 - M8

17028.2

299

299

Q3 HSK 35/M6 - M10/2

17029.2

299

ES 35/K/ST BG

2828.0

274

50

PMC SB 6/50 WH

4702.7

340

500

## HSK 50/M8 B



High-power terminal  
1 connection

### Stud connection

67 x 21 x 63.5

67 x 21 x 66

### Qty.

HSK 50/M8 B BG

17002.2

10

②

IEC CSAus CSA

1000 1000 1000

150 125 125

50 | 14-1/0

8 | 3

- | V0

≤ 50

M8

2,5 - 50

2,5 - 50

6,0 - 35

6,0 - 35

6,0 - 12

16,9

PA 6.6 | -40 to +120°C

1 | -

Page Qty.

TW 16-120 BG

17018.2

316

20

AD 50 YE

17021.8

312

20

Q2/50

17012.0

298

10

Q3/50

17013.0

298

10

Q2 HSK 35/M6 - M8

17028.2

299

299

ES 35/K/ST BG

2828.0

274

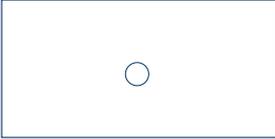
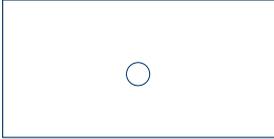
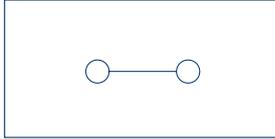
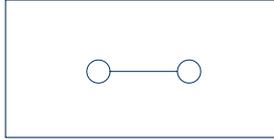
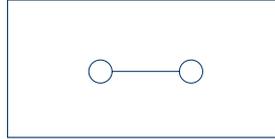
50

PMC SB 6/50 WH

4702.7

340

500

HSK 120/M10 B	HSK 120/M12 B	HSK 35/M6 B/B	HSK 50/M8 B/B	HSK 120/M10 B/B
				
M10	M12	M6	M8	M10
				
High-power terminal 1 connection	High-power terminal 1 connection	High-power terminal 2 connections	High-power terminal 2 connections	High-power terminal 2 connections
<b>Stud connection</b> 67 x 32 x 73.5 67 x 32 x 76	<b>Stud connection</b> 67 x 32 x 73.5 67 x 32 x 76	<b>Stud connection</b> 67 x 16 x 55.5 67 x 16 x 61.5	<b>Stud connection</b> 67 x 21 x 63.5 120 x 21 x 71.5	<b>Stud connection</b> 67 x 32 x 73.5 156 x 32 x 78.5
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
HSK 120/M10 B BG <b>17003.2</b> 10	HSK 120/M12 B BG <b>17004.2</b> 10	HSK 35/M6 B/B BG <b>17005.2</b> 10	HSK 50/M8 B/B BG <b>17006.2</b> 10	HSK 120/M10 B/B BG <b>17007.2</b> 10
②	②	②	②	②
<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>	<b>IEC</b> <b>UL</b> <b>CSA</b>
1000 8   3 1000	1000 8   3 1000	1000 8   3 1000	1000 8   3 1000	1000 8   3 1000
269 -   V0 220	269 -   V0 220	125 -   V0	150 -   V0	269 -   V0
120   10-Kcmil 250	120   10-Kcmil 250	35   14-2	50   14-1/0	120   10-Kcmil 250
≤ 120	≤ 120	≤ 35	≤ 50	≤ 120
M10	M12	M6	M8	M10
6 - 120	6 - 120	2,5 - 35	2,5 - 50	6 - 120
6 - 120	6 - 120	2,5 - 35	2,5 - 50	6 - 120
10 - 95	10 - 95	6,0 - 25	6,0 - 35	10 - 95
10 - 95	10 - 95	6,0 - 25	6,0 - 35	10 - 95
10 - 20 20,0	14 - 31 20,0	3,0 - 6,0 12,4	6,0 - 12 16,9	10 - 20 20,9
PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
1   -	1   -	1   -	1   -	1   -
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
TW 35-120/B/B BG <b>17022.2</b> 316 20	TW 35-120/B/B BG <b>17022.2</b> 316 20	TW 35-120/B/B BG <b>17022.2</b> 316 20	TW 35-120/B/B BG <b>17022.2</b> 316 20	TW 35-120/B/B BG <b>17022.2</b> 316 20
TW 16-120 BG <b>17018.2</b> 316 20	TW 16-120 BG <b>17018.2</b> 316 20	AD 35 YE <b>17020.8</b> 312 20	AD 50 YE <b>17021.8</b> 312 20	AD 120 YE <b>17026.8/20</b> 313 20
AD 120 YE <b>17026.8</b> 313 20	AD 120 YE <b>17026.8</b> 312 20	Q2/35 <b>17010.0</b> 298 10	Q2/50 <b>17012.0</b> 298 10	Q2/120/10 <b>17014.0/10</b> 299 10
Q2/120/10 <b>17014.0</b> 299 10	Q2/120/10 <b>17016.0</b> 299 10	Q3/35 <b>17011.0</b> 298 10	Q3/50 <b>17013.0</b> 298 10	Q3/120/10 <b>17015.0/10</b> 299 10
Q3/120/10 <b>17015.0</b> 299 10	Q3/120/12 <b>17017.0</b> 299 10	Q2 HSK 35/M6 - M8 <b>17028.2</b> 299 1	Q2 HSK 35/M6 - M8 <b>17028.2</b> 299 1	Q3 HSK 35/M6 - M10/2 <b>17029.2</b> 299 1
Q3 HSK 35/M6 - M10/2 <b>17029.2</b> 299	Q3 HSK 35/M6 - M10/2 <b>17029.2</b> 299	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50
ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500

## High-power stud terminals HSK B...B/B



The newest generation of **HSK B...B/B** stud terminals from **CONTA-CLIP** offers secure connections for all energy-transmitting applications. Depending on the wire cross-section, stud terminals can be used with threaded studs from M8 to M16. The rated current ranges from 192 to 415 amps, with a rated voltage up to 1000 volts. The wire connection range is from 6 mm<sup>2</sup> to 240 mm<sup>2</sup>. Wires with crimped cable lugs are applied to threaded bolts and then connected securely by tightening the hex nut. Optimal security is guaranteed by the low voltage drop and by the use of self-extinguishing material with a V0 (UL94) flammability rating. Designed for mounting onto **TS 35** DIN rails, the stud terminals can be adapted with accessories such as **TW** partitions and **AD** covers to suit application requirements.

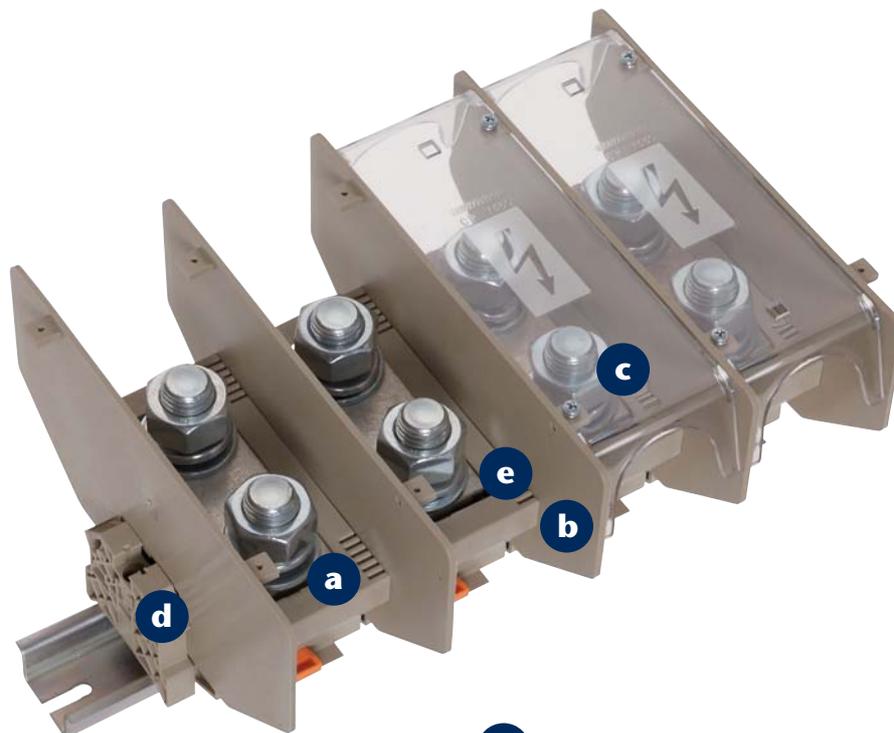


## High-power stud terminals HSK B...B/B

### Features

**a** **base terminal HSK**  
**CONTA-CLIP** stud terminals can be arranged as required on standard **TS 35** DIN rails in accordance with EN 60715.

**b** **Partition plates TW**  
To safely separate the potentials, **CONTA-CLIP** offers three different types of partitions in various heights fitting to each terminal. These are fitted securely in place between the individual terminals by means of the pegs integrated into the terminal base.



**c** **Covers AH**  
The transparent **AH** covers offer a simple and safe method for protecting terminals and wires from accidental touch. They are securely screwed into the flanges built into the **TW** partition plates. The following product tables list the selection of **TW** partitions and the dimensions of the mounted terminal rails.

**d** **End stop ES 35/K/ST**  
The **ES 35/K/ST** end stop grips both sides of the DIN rail with steel clamps. They are a secure method of mechanical attachment in terminal rail design.

**e** **Labelling | Marking**  
The stud terminals have a labelling surface which is optimally suited for our Pocket-Maxicard **PMC (PMC BSTR 6/30)** standard marking systems.

## High-power stud terminals HSK B... B/B

### The features in detail

#### Stud connection

- Stud sizes from M 8 to M 16
- Wire with cable lug acc. to DIN 46234 up to 240 mm<sup>2</sup>
- Up to three cable lugs per stud can be connected with the single-bolt variants

#### Easy to use

- Place cable lugs on the studs
- Base washer and spring washer are then placed over
- When the steel nut is tightened, the flats of the cable lugs clamp together.

#### Cross-connections

- 2-pole design
- Can be used for all stud terminals
- Designed for the rated current of the stud terminal
- Clearly saves time with its quick potentials distribution

#### Housing made from polyamide 6.6 V0

- Self-extinguishing, UL94-V0 flamm. class
- Creepage-current protected, CTI = 600
- Temperature resistance: -40° to +120°C
- Spec. contact resistance: 10<sup>13</sup> Ohm/cm
- Spec. surface resistance: 10<sup>15</sup> Ohm/cm
- Temp. index, mechanical: 120°C (at 0.8 mm)
- Temp. index, electrical: 120°C (at 0.8 mm)
- Relative temperature index, electrical: 130°C (at 0.8 mm)
- Pollutant-free

#### Standards

The following standard terminal block requirements are fulfilled:

- EN 60947-7-1
- EN 50124-1
- DIN EN 61373



## Handling accessories

### Secure handling

- Touch-safe protection because of **TW** partition plates and transparent **AH** covers



### Secure contacts

- Maintenance-free, later tightening of the nut is not needed
- High contact strength and vibration resistance from the spring washer
- Direct contact of cable lugs, or contact via copper busbar



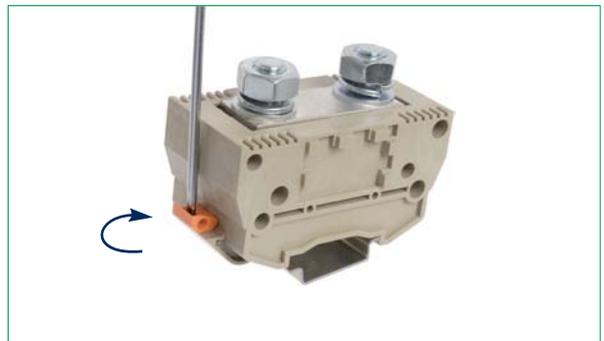
### Cross-connections/Potential distribution

With neighbouring stud terminals, it is possible to implement potential distribution over two-pole **QS** cross-connection rails. The cross-connections are each designed for the rated current of the terminal. They are simply placed together with the cable lug over the stud. When using the cross-connection rails, do not use the partitions between the individual terminals. A cover over the terminals is not possible here.



### Unlocking the DIN rails

The size of the terminal feet allows for a secure fit on a DIN rail with a thickness of at least 1.5 mm. A spring slider in the foot is used for a simple, quick snap-on and snap-off from the DIN rail.



# High-power stud terminals HSK

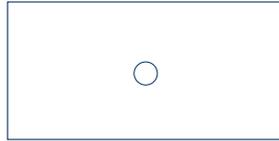
## Stud connection system



- Foot can be snapped on TS 35 DIN rail
- Stud connection
- Housing made from polyamide 6.6 UL 94-V0

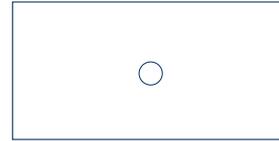


## HSK 70 B



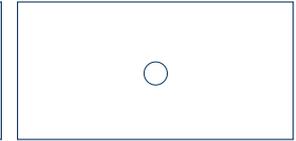
High-power terminal  
1 connection

## HSK 95 B



High-power terminal  
1 connection

## HSK 150 B



High-power terminal  
1 connection

### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Size (L x W x H) with TS 35 x 7.5 mm with TW/AH

### Type

Type/colour

Cat. no.

Colours available

### Rated data, in compliance (Approvals on page xxx)

Rated voltage, V

Rated current, A

Rated cross-section mm<sup>2</sup>/AWG

Rated surge voltage kV / Contamination degree

Plug gauge acc. to EN 60947-1/flamm. class UL 94

### Connection data

Contact wire range, mm<sup>2</sup>

Stud size

Torque, Nm

### Features

Material of insulated housing | Temperature range

### Accessories

Partition plate TW

AH protective hood

BS mounting screw for the AH

QS cross-connection rail

End stop ES

Quick marking PMC SB

### Stud connection

75 x 40 x 93

75 x 40 x 97

### Qty.

HSK 70 B BG

**1174.2**

10

②

### IEC

1000

192

70 | 2/0

8 | 3

- | V0

≤ 70

M 8

6-12

PA 6.6 | -40 to +120°C

### Page Qty.

TW 97 BG

**2380.0**

316

1

AH 40 transparent

2381.0

313

1

BS AD/M 2,9x6,5

**2385.0**

313

100

QS 2

**2410.0**

298

1

ES 35/K/ST BG

**2828.0**

274

50

PMC SB 6/50 WH

**4702.7**

340

500

### Stud connection

75 x 40 x 93

75 x 40 x 97

### Qty.

HSK 95 B BG

**1175.2**

10

②

### IEC

1000

232

95 | 3-4/0

8 | 3

- | V0

≤ 95

M 10

10-20

PA 6.6 | -40 to +120°C

### Page Qty.

TW 97 BG

**2380.0**

316

1

AH 40 transparent

**2381.0**

313

1

BS AD/M 2,9x6,5

**2385.0**

313

100

QS 2

**2411.0**

298

1

ES 35/K/ST BG

**2828.0**

274

50

PMC SB 6/50 WH

**4702.7**

340

500

### Stud connection

96 x 50 x 108

96 x 50 x 138

### Qty.

HSK 150 B BG

**1176.2**

5

②

### IEC

1000

309

150 | 2-6/0

8 | 3

- | V0

≤ 150

M 12

14-31

PA 6.6 | -40 to +120°C

### Page Qty.

TW 138 BG

**1178.0**

316

1

AH 50 transparent

**2382.0**

313

1

BS AD/M 2,9x6,5

**2385.0**

313

100

QS 2

**2412.0**

298

1

ES 35/K/ST BG

**2828.0**

274

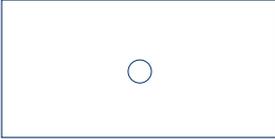
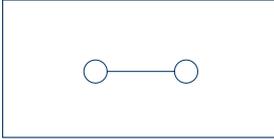
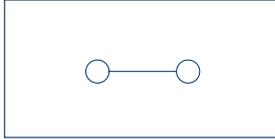
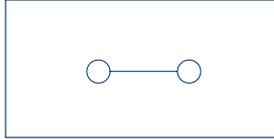
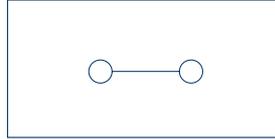
50

PMC SB 6/50 WH

**4702.7**

340

500

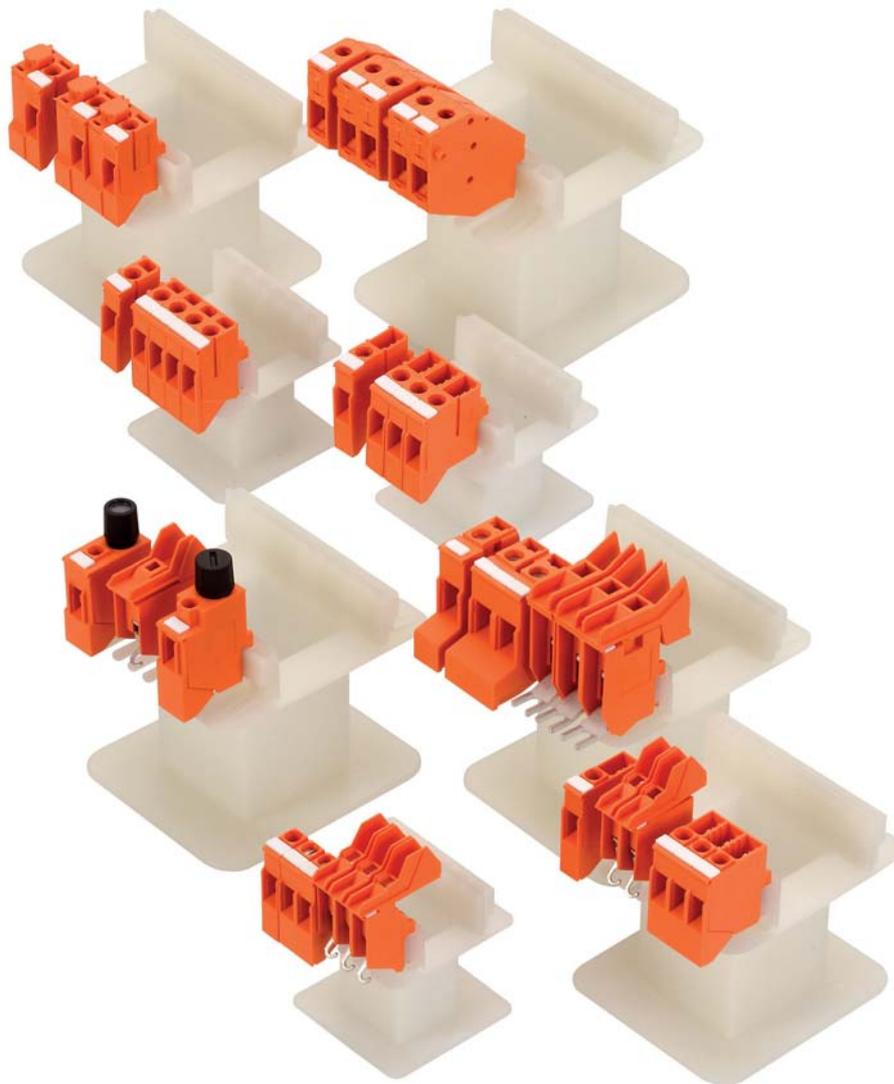
HSK 240 B		HSK 70 B/B		HSK 95 B/B		HSK 150 B/B		HSK 240 B/B	
									
M 16		M 8		M 10		M 12		M 16	
									
High-power terminal 1 connection		High-power terminal 2 connections		High-power terminal 2 connections		High-power terminal 2 connections		High-power terminal 2 connections	
<b>Stud connection</b>		<b>Stud connection</b>		<b>Stud connection</b>		<b>Stud connection</b>		<b>Stud connection</b>	
96 x 50 x 108		75 x 40 x 58		75 x 40 x 58		96 x 50 x 78		96 x 50 x 88	
96 x 50 x 138		75 x 40 x 71		75 x 40 x 71		96 x 50 x 97		96 x 50 x 97	
<b>Qty.</b>		<b>Qty.</b>		<b>Qty.</b>		<b>Qty.</b>		<b>Qty.</b>	
HSK 240 B BG <b>1177.2</b>		HSK 70 B/B BG <b>1170.2</b>		HSK 95 B/B BG <b>1171.2</b>		HSK 150 B/B BG <b>1172.2</b>		HSK 240 B/B BG <b>1173.2</b>	
②		②		②		②		②	
<b>IEC</b>		<b>IEC</b>		<b>IEC</b>		<b>IEC</b>		<b>IEC</b>	
1000		1000		1000		1000		1000	
415		192		232		309		415	
240   2/0-500		70   2/0		95   3-4/0		150   2-6/0		240   2/0-500	
8   3		8   3		8   3		8   3		8   3	
-   V0		-   V0		-   V0		-   V0		-   V0	
≤ 240		≤ 70		≤ 95		≤ 150		≤ 240	
M 16		M 8		M 10		M 12		M 16	
25-60		6-12		10-20		14-31		25-60	
PA 6.6   -40 to +120°C		PA 6.6   -40 to +120°C		PA 6.6   -40 to +120°C		PA 6.6   -40 to +120°C		PA 6.6   -40 to +120°C	
<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>	
TW 138 BG <b>1178.0</b>		TW 71 BG <b>2379.0</b>		TW 71 BG <b>2379.0</b>		TW 97 BG <b>2380.0</b>		TW 97 BG <b>2380.0</b>	
316 1		316 1		316 1		316 1		316 1	
AH 50 transparent <b>2382.0</b>		AH 40 transparent <b>2381.0</b>		AH 40 transparent <b>2381.0</b>		AH 50 transparent <b>2382.0</b>		AH 50 transparent <b>2382.0</b>	
313 1		313 1		313 1		313 1		313 1	
BS AD/M 2,9x6,5 <b>2385.0</b>		BS AD/M 2,9x6,5 <b>2385.0</b>		BS AD/M 2,9x6,5 <b>2385.0</b>		BS AD/M 2,9x6,5 <b>2385.0</b>		BS AD/M 2,9x6,5 <b>2385.0</b>	
313 100		313 100		313 100		313 100		313 100	
QS 2 <b>2413.0</b>		QS 2 <b>2410.0</b>		QS 2 <b>2411.0</b>		QS 2 <b>2412.0</b>		QS 2 <b>2413.0</b>	
298 1		298 1		298 1		298 1		298 1	
ES 35/K/ST BG <b>2828.0</b>		ES 35/K/ST BG <b>2828.0</b>		ES 35/K/ST BG <b>2828.0</b>		ES 35/H/ST BG <b>2828.0</b>		ES 35/H/ST BG <b>2828.0</b>	
274 50		274 50		274 50		274 50		274 50	
PMC SB 6/50 WH <b>4702.7</b>		PMC SB 6/50 WH <b>4702.7</b>		PMC SB 6/50 WH <b>4702.7</b>		PMC SB 6/50 WH <b>4702.7</b>		PMC SB 6/50 WH <b>4702.7</b>	
340 500		340 500		340 500		340 500		340 500	

## Transformer terminals TKS/TK



Transformer terminals are intended to be directly mounted to a core with integrated receptacles. They can also be mounted on aluminium 10x2 DIN rails. They are used for converting coil ends to screw-/spade connections, for connecting to the device being powered or to parts of the facility.

All transformer terminals feature the proven clamping yoke system which guarantees a vibration-resistant connection. Touch safety in compliance with **VBG 4** is ensured because of the closed housing design (material is polyamide PA 6.6 UL 94-V0). The **PMC SB 7,5** quick marking system is used for labelling the transformer terminals.

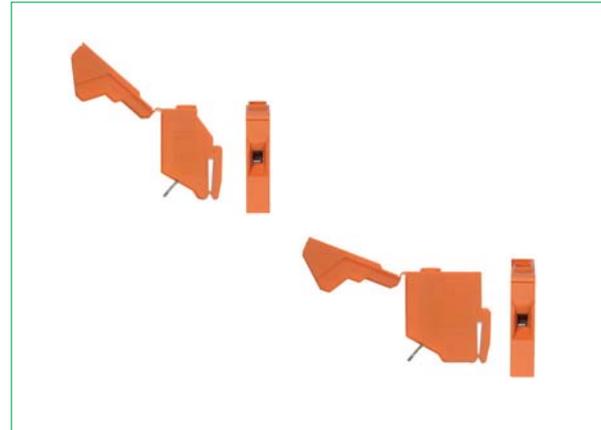


## Transformer terminals TKS/TK

### The features in detail

#### Transformer terminals: TKS 4 and TKS 4/F

The **TKS 4** and **TKS 4/F** are available as 1-, 2-, and 3-pole units as single, solid mouldings in the standard orange and grey colours. Customer-specific colours are available upon request. The **TKS 4** screw connection and the **TKS 4/F** screw-/spade connection (2.8/6.3 mm) are also available. The screw connection is designed for wires up to 4 mm<sup>2</sup>. The solder hook is open-sided and the housing lid clips back in the open position above the screwdriver insertion point. These two factors allow the coil wires to be conveniently and quickly soldered.



#### Transformer terminals TKS 10

The **TKS 10s** are available as 1-, 2-, and 3-pole units in block versions in the standard colours orange and grey. Customer-specific colours are available upon request. The screw connection is designed for wires up to 10 mm<sup>2</sup>. The solder hook is open-sided and the housing lid clips back in the open position above the screwdriver insertion point. These two factors allow the coil wires to be conveniently and quickly soldered.



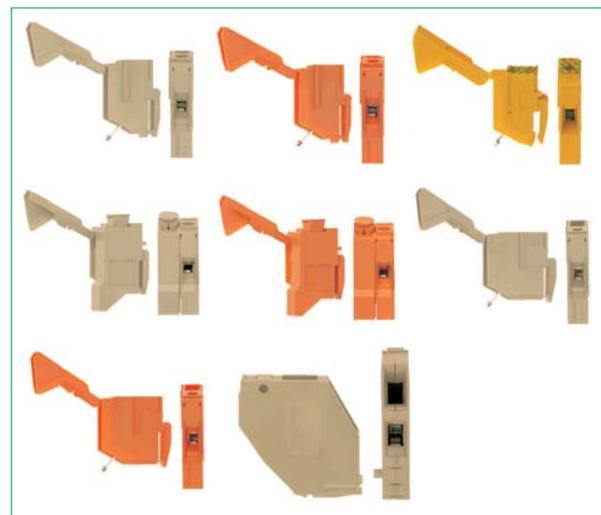
#### Transformer-fused terminals TKS 4 SI 5x20, 5x25 and 6,3x32

The **TKS 4 SI** are available in 1-pole units in block versions in the standard colours orange and grey. The screw connection is designed for wires up to 4 mm<sup>2</sup>. A screw cap is used to attach the corresponding 5x20, 5x25 or 6.3x32 micro-fuses in the **TKS 4 SI**.



#### Transformer terminals TK 4, TK 4/F, TK 10 and TK 4 SI

This modular system uses a dove-tail connection to assemble together into the required number of poles. The transformer terminals can also be delivered pre-assembled, in standard units from 2 to 10 poles and in orange or beige. Customer-specific colours are available upon request. The **TK 4** screw connection and the **TK 4/F** screw-/spade connection (2.8/6.3 mm) are available in colour versions. The screw connection is designed for wires up to 4 mm<sup>2</sup>. The housing for the **TK 10** transformer terminals (2 mm<sup>2</sup>) and the **TK 4 SI** transformer fused terminals (2 mm<sup>2</sup>) are designed as single-pole terminals without a dove-tail connection. A screw cap is used to attach the corresponding 5x20 or 5x25 micro-fuses in the **TK 4 SI**.



## Transformer terminals TKS

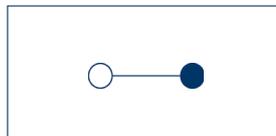
### Screw connection system



- Housing made from polyamide 6.6 UL 94-V0

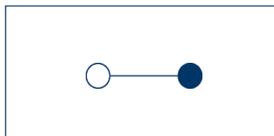
### Connection diagram

#### TKS 4/1



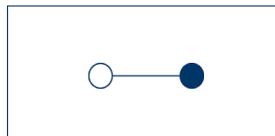
Transformer terminal  
1 screw connection

#### TKS 4/2



Transformer terminal  
2 screw connections

#### TKS 4/3



Transformer terminal  
3 screw connections

### Connection type

Dimensions (L x W x H), mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Spade connection, mm

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

Quick marking PMC SB

**Cat. no.**

Quick marking PMC SB

Special print

Screwdriver SDB

**Cat. no.**

### Screw connection

20.5 x 7.5 x 33.1

**Qty.**

TKS 4/1 OG

**1222.3**

50

TKS 4/1 GR

**1222.6**

50

### Screw connection

20.5 x 15 x 33.1

**Qty.**

TKS 4/2 OG

**1223.3**

25

TKS 4/2 GR

**1223.6**

25

### Screw connection

20.5 x 22.5 x 33.1

**Qty.**

TKS 4/3 OG

**1224.3**

20

TKS 4/3 GR

**1224.6**

20

3 6

**IEC**

**CSAus**

**CSA**

800

600

600

32

30

30

4 | 22-10

8 | 3

A3 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

8

0.5-1.0

-

PA 6.6 | -40 to +120°C

- | 1

**Page**

**Qty.**

PMC SB 7,5/40 WH

**9326.7**

341

400

PMC SB 7,5/40 So WH

**3327.7**

341

400

SDB 0.6x3.5

**1086.0**

422

1

3 6

**IEC**

**CSAus**

**CSA**

800

600

600

32

30

30

4 | 22-10

8 | 3

A3 | V2

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

8

0.5-1.0

-

PA 6.6 | -40 to +120°C

- | 2

**Page**

**Qty.**

PMC SB 7,5/40 WH

**9326.7**

341

400

PMC SB 7,5/40 So WH

**3327.7**

341

400

SDB 0.6x3.5

**1086.0**

422

1

3 6

**IEC**

**CSAus**

**CSA**

800

600

600

32

30

30

4 | 22-10

8 | 3

A3 | V2

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

8

0.5-1.0

-

PA 6.6 | -40 to +120°C

- | 3

**Page**

**Qty.**

PMC SB 7,5/40 WH

**9326.7**

341

400

PMC SB 7,5/40 So WH

**3327.7**

341

400

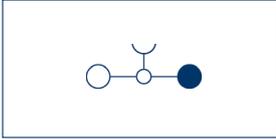
SDB 0.6x3.5

**1086.0**

422

1

**TKS 4/1 F**



Transformer terminal  
1 screw connection /  
1 spade connection

Screw connection	
27.7 x 7.5 x 33.1	
Qty.	
TKS 4/1/F OG	<b>1225.3</b>
	50
TKS 4/1/F GR	<b>1225.6</b>
	50

**TKS 4/2 F**



Transformer terminal  
2 screw connections /  
2 spade connections

Screw connection	
27.7 x 15 x 33.1	
Qty.	
TKS 4/2/F OG	<b>1226.3</b>
	25
TKS 4/2/F GR	<b>1226.6</b>
	25

**TKS 4/3 F**



Transformer terminal  
3 screw connections /  
3 spade connections

Screw connection	
27.7 x 22.5 x 33.1	
Qty.	
TKS 4/3/F OG	<b>1227.3</b>
	20
TKS 4/3/F GR	<b>1227.6</b>
	20

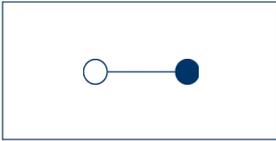
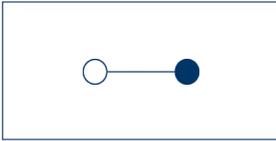
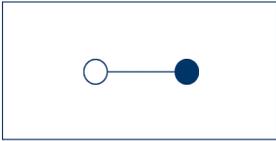
IEC	CSAus	CSA
800	600	600
32	30	30
4   22-10		
8   3		
A3   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
8		
0.5-1.0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		
-   1		
Page	Qty.	
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

IEC	CSAus	CSA
800	600	600
32	30	30
4   22-10		
8   3		
A3   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
8		
0.5-1.0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		
-   2		
Page	Qty.	
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

IEC	CSAus	CSA
800	600	600
32	30	30
4   22-10		
8   3		
A3   V2		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
8		
0.5-1.0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		
-   3		
Page	Qty.	
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

**Transformer terminals TKS | Transformer-fused terminals TKS../SI**

Screw connection system	TKS 10/1	TKS 10/2	TKS 10/3
 <ul style="list-style-type: none"> <li>Housing made from polyamide 6.6 UL 94-V0</li> </ul>	 <p>M 4</p>	 <p>M 4</p>	 <p>M 4</p>

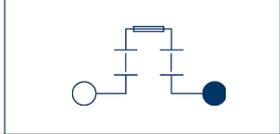
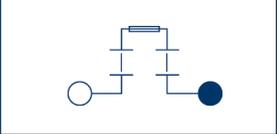
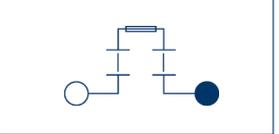
Connection diagram	TKS 10/1	TKS 10/2	TKS 10/3
	 <p>Transformer terminal 1 screw connection</p>	 <p>Transformer terminal 2 screw connections</p>	 <p>Transformer terminal 3 screw connections</p>

Connection type	Screw connection			Screw connection			Screw connection		
Dimensions (L x W x H), mm	37.5 x 11.25 x 39.5			37.5 x 22.5 x 39.5			37.5 x 23.75 x 39.5		
<b>Type</b>	<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>		
Type colour	TKS 10/1 OG			TKS 10/2 OG			TKS 10/3 OG		
<b>Cat. no.</b>	<b>17032.3</b>			<b>17033.3</b>			<b>17046.3</b>		
Qty.	50			25			20		
Type colour	TKS 10/1 GR			TKS 10/2 GR			TKS 10/3 GR		
<b>Cat. no.</b>	<b>17032.6</b>			<b>17033.6</b>			<b>17046.6</b>		
Qty.	50			25			20		
Colours available									
<b>Ratings</b>	<b>IEC*</b>	<b>CSAus*</b>	<b>CSA*</b>	<b>IEC*</b>	<b>CSAus*</b>	<b>CSA*</b>	<b>IEC*</b>	<b>CSAus*</b>	<b>CSA*</b>
Rated voltage, V	800	600	600	800	600	600	800	600	600
Rated current, A	57	65	65	57	65	65	57	65	65
Rated wire cross-section, mm <sup>2</sup>   AWG	10   8			10   8			10   8		
Rated impulse voltage, kV   Contamination degree	8   3			8   3			8   3		
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	B6   V0			B6   V0			B6   V0		
<b>Connection data</b>									
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.2-16   0.2-16			0.2-16   0.2-16			0.2-16   0.2-16		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.2-10   0.2-10			0.2-10   0.2-10			0.2-10   0.2-10		
Contact wire range, mm <sup>2</sup>	0.6 - 16			0.6 - 16			0.6 - 16		
Stripping length, mm	14			14			14		
Torque, Nm   Screw	1.2 - 2.0   Slotted M4			1.2 - 2.0   Slotted M4			1.2 - 2.0   Slotted M4		
Fuse size	-			-			-		
Material of insulated housing   Temperature range	PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C		

Accessories	Page	Qty.	Page	Qty.	Page	Qty.
Quick marking PMC SB, blank						
<b>Cat. no.</b>	PMC SB 7,5/40 WH	341	400	PMC SB 7,5/40 WH	341	400
<b>9326.7</b>				<b>9326.7</b>		
Quick marking PMC SB, customer-specific	PMC SB 7,5/40 So WH	341	400	PMC SB 7,5/40 So WH	341	400
<b>Cat. no.</b>	<b>3327.7</b>			<b>3327.7</b>		
Screwdriver SDB	SDB 0.6x3.5	422	1	SDB 0.6x3.5	422	1
<b>Cat. no.</b>	<b>1086.0</b>			<b>1086.0</b>		


More accessories starting on page 264.

\* = Approval applied for.

TKS 4/SI 5x20			TKS 4/SI 5x25			TKS 4/SI 6,3x32				
										
M 3 			M 3 			M 3 				
										
Transformer-fused terminal 1 screw connection			Transformer-fused terminal 1 screw connection			Transformer-fused terminal 1 screw connection				
Screw connection			Screw connection			Screw connection				
28.3 x 12.5 x 43.9			28.3 x 12.5 x 43.9			28.3 x 12.5 x 49.4				
		Qty.			Qty.			Qty.		
TKS 4/SI 5x20 OG			TKS 4/SI 5x25 OG			TKS 4/SI 6,3x32 OG				
<b>17030.3</b>		50	<b>17047.3</b>		50	<b>17031.3</b>		50		
TKS 4/SI 5x20 GR			TKS 4/SI 5x25 GR			TKS 4/SI 6,3x32 GR				
<b>17030.6</b>		50	<b>17047.6</b>		50	<b>17031.6</b>		50		
3 6 IEC* CSAus* CSA*			3 6 IEC* CSAus* CSA*			3 6 IEC* CSAus* CSA*				
250 600 600			400 600 600			500 600 600				
10* 10 10			10* 10 10			10* 10 10				
4   12			4   12			4   12				
8   3			8   3			8   3				
A4   V0			A4   V0			A4   V0				
0.2-6   -			0.2-6   -			0.2-6   -				
0.2-6   0.2-4			0.2-6   0.2-4			0.2-6   0.2-4				
0.2-6			0.2-6			0.2-6				
8			8			8				
0.5 - 1.0   Slotted M3			0.5 - 1.0   Slotted M3			0.5 - 1.0   Slotted M3				
5 x 20			5 x 25			6,3 x 32				
PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C			PA 6.6   -40 to +120°C				
Page Qty.			Page Qty.			Page Qty.				
PMC SB 7,5/40 WH			PMC SB 7,5/40 WH			PMC SB 7,5/40 WH				
<b>9326.7</b> 341 400			<b>9326.7</b> 341 400			<b>9326.7</b> 341 400				
PMC SB 7,5/40 So WH			PMC SB 7,5/40 So WH			PMC SB 7,5/40 So WH				
<b>3327.7</b> 341 400			<b>3327.7</b> 341 400			<b>3327.7</b> 341 400				
SDB 0.6x3.5			SDB 0.6x3.5			SDB 0.6x3.5				
<b>1086.0</b> 422 1			<b>1086.0</b> 422 1			<b>1086.0</b> 422 1				

\* =Depending on the type of fuse in use.

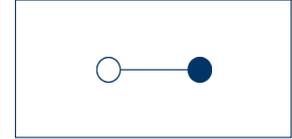
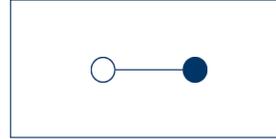
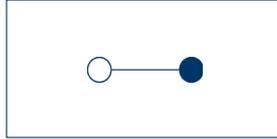
Transformer terminals TK | Transformer-fused terminals TKS../SI

Screw connection system



• Housing made from polyamide 6.6 UL 94-V0

Connection diagram



Transformer terminal  
1 screw connection per pole

Transformer terminal  
1 screw connection per pole

Transformer terminal  
1 screw connection per pole

Connection type

Dimensions (L x W x H), mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type/colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type/colour

Cat. no.

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Spade connection, mm

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

Quick marking PMC SB

Cat. no.

Quick marking PMC SB

Cat. no.

Screwdriver SDB

Cat. no.

Screw connection

20,5 x 7,5 x 33,1

Qty.

TK 4/1 BG

**1141.2**

50

TK 4/2 BG

**1142.2**

25

TK 4/3 BG

**1143.2**

20

TK 4/4 BG

**1144.2**

15

TK 4/5 BG

**1145.2**

10

TK 4/6 BG

**1146.2**

10

TK 4/7 BG

**1147.2**

10

TK 4/8 BG

**1148.2**

5

TK 4/9 BG

**1149.2**

5

TK 4/10 BG

**1150.2**

5

②

IEC

CSAus\*

CSA\*

800

600

600

32

30

30

4 | 22-10

8 | 3

A5 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

9

0.5-1.0

-

PA 6.6 | -40 to +120°C

- | -

- | -

Page Qty.

PMC SB 7,5/40 WH

**9326.7**

341

400

PMC SB 7,5/40 So WH

**3327.7**

341

400

SDB 0.6x3.5

**1086.0**

422

1

Screw connection

20,5 x 7,5 x 33,1

Qty.

TK 4/1 OG

**1141.3**

50

TK 4/2 OG

**1142.3**

25

TK 4/3 OG

**1143.3**

20

TK 4/4 OG

**1144.3**

15

TK 4/5 OG

**1145.3**

10

TK 4/6 OG

**1146.3**

10

TK 4/7 OG

**1147.3**

10

TK 4/8 OG

**1148.3**

5

TK 4/9 OG

**1149.3**

5

TK 4/10 OG

**1150.3**

5

③

IEC

CSAus\*

CSA\*

800

600

600

32

30

30

4 | 22-10

8 | 3

A5 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

9

0.5-1.0

-

PA 6.6 | -40 to +120°C

- | -

- | -

Page Qty.

PMC SB 7,5/40 WH

**9326.7**

341

400

PMC SB 7,5/40 So WH

**3327.7**

341

400

SDB 0.6x3.5

**1086.0**

422

1

Screw connection

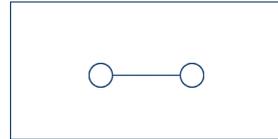
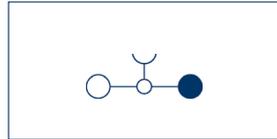
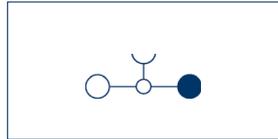
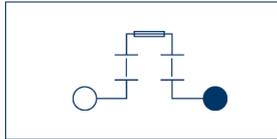
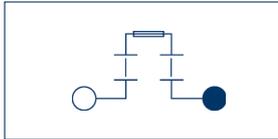
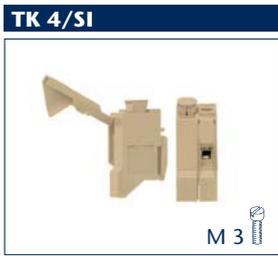
20,5 x 7,5 x 33,1

Qty.

TK 4/1 GNYE

**1136.8**

50



Transformer-fused terminal  
1 screw connection

Transformer-fused terminal  
1 screw connection

Transformer terminal  
1 screw connection per  
pole / 1 spade connection

Transformer terminal  
1 screw connection per  
pole / 1 spade connection

Transformer terminal  
1 screw connection per pole

**Screw connection**  
20.5 x 15 x 37

**Screw connection**  
0.5 x 15 x 37

**Screw connection**  
27.8 x 7.5 x 33.1

**Screw connection**  
20.5 x 7.5 x 3.1

**Screw connection**  
40.5 x 9 +(ZP 6 mm) x 41

	Qty.
TK 4/SI 5x20 BG	50
<b>1139.2</b>	
TK 4/SI 5x25 BG	50
<b>1140.2</b>	

	Qty.
TK 4/SI 5x20 OG	50
<b>1139.3</b>	
TK 4/SI 5x25 OG	50
<b>1140.3</b>	

	Qty.
TK 4/1/F BG	50
<b>1151.2</b>	
TK 4/2/F BG	25
<b>1152.2</b>	
TK 4/3/F BG	20
<b>1153.2</b>	
TK 4/4/F BG	15
<b>1154.2</b>	
TK 4/5/F BG	10
<b>1155.2</b>	
TK 4/6/F BG	10
<b>1156.2</b>	
TK 4/7/F BG	10
<b>1157.2</b>	
TK 4/8/F BG	5
<b>1158.2</b>	
TK 4/9/F BG	5
<b>1159.2</b>	
TK 4/10/F BG	5
<b>1160.2</b>	

	Qty.
TK 4/1/F OG	50
<b>1151.3</b>	
TK 4/2/F OG	25
<b>1152.3</b>	
TK 4/3/F OG	20
<b>1153.3</b>	
TK 4/4/F OG	15
<b>1154.3</b>	
TK 4/5/F OG	10
<b>1155.3</b>	
TK 4/6/F OG	10
<b>1156.3</b>	
TK 4/7/F OG	10
<b>1157.3</b>	
TK 4/8/F OG	5
<b>1158.3</b>	
TK 4/9/F OG	5
<b>1159.3</b>	
TK 4/10/F OG	5
<b>1160.3</b>	

	Qty.
TK 10 OG	50
<b>1138.3</b>	
TK 10/ZP OG	50
<b>1161.3</b>	
TK 10 BG	50
<b>1138.2</b>	
TK 10/ZP BG	50
<b>1161.2</b>	

IEC	CSAus*	CSA*
250	300	300
10	10	10
4   22-10		
4   3		
A5   V0		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
9		
0.5-1.0		
-		
PA 6.6   -40 to +120°C		

IEC	CSAus*	CSA*
250	300	300
10	10	10
4   22-10		
4   3		
A5   V0		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
9		
0.5-1.0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		

IEC	CSAus*	CSA*
800	600	600
32	30	30
4   22-10		
8   3		
A5   V0		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
9		
0.5-1.0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		

IEC	CSAus*	CSA*
800	600	600
32	30	30
4   22-10		
8   3		
A5   V0		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
9		
0.5-1.0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		

IEC	CSAus*	CSA*
800	600	600
57	65	65
10   22-10		
8   3		
A5   V0		
0.2-6   -		
0.2-6   0.2-4		
0.2-6		
12		
1,2-2,0		
6.3/2 x 2.8 x 0.8		
PA 6.6   -40 to +120°C		

	Page	Qty.
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

	Page	Qty.
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

	Page	Qty.
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

	Page	Qty.
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

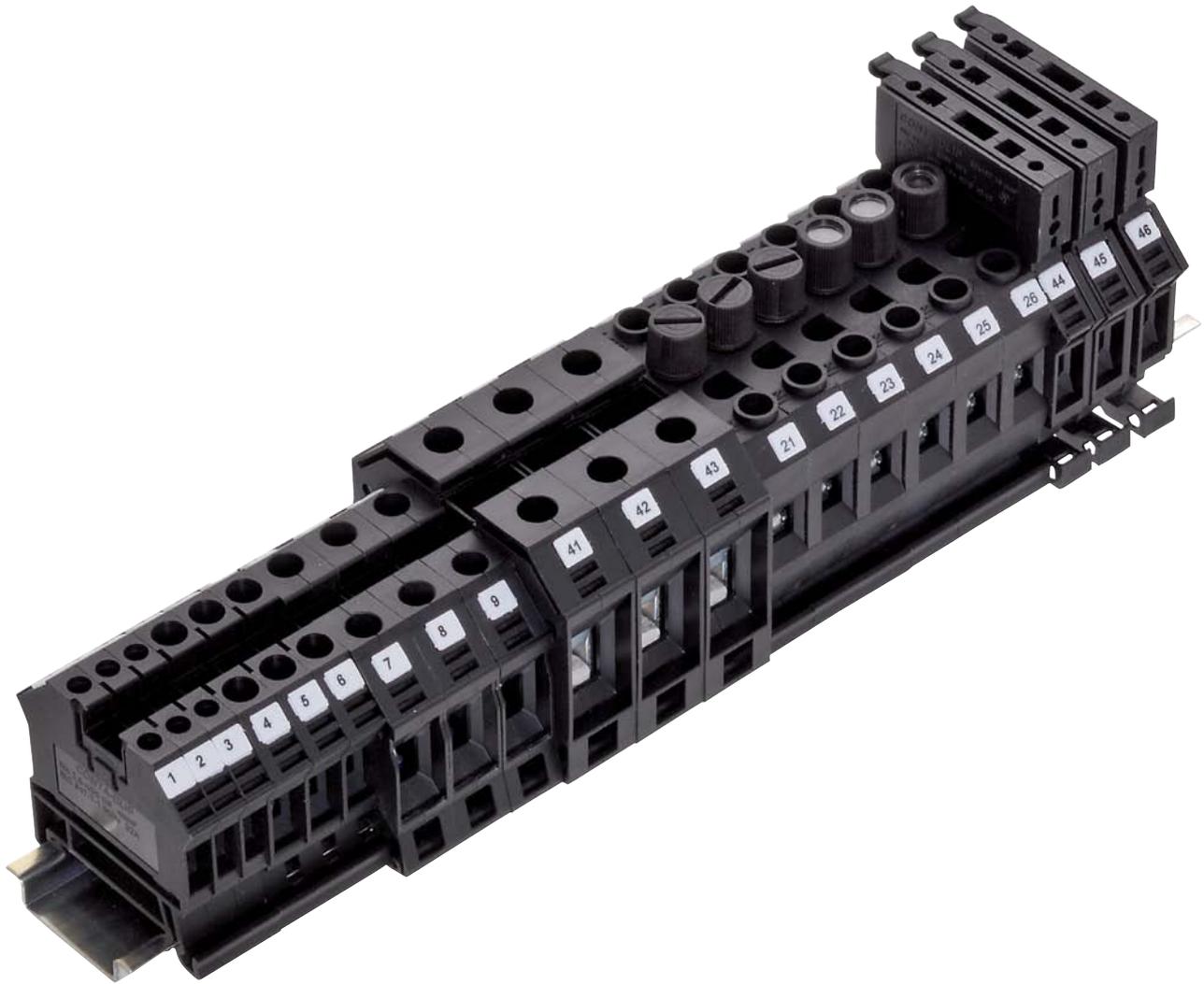
	Page	Qty.
PMC SB 7,5/40 WH	341	400
<b>9326.7</b>		
PMC SB 7,5/40 So WH	341	400
<b>3327.7</b>		
SDB 0.6x3.5	422	1
<b>1086.0</b>		

**Feed-through terminals RK | Fused terminals SIK/SK, in high-temp. design**



The new feed-through and fused terminals, made from glass-fibre reinforced polyamide PA 6.6 V0, have an extended temperature range up to +140 C (RTI elec.) and open up new application possibilities in electrical engineering. These products offer an interesting alternative to terminals blocks made from thermo-set duroplast, and are suitable for nonrecurring high temperatures in the production process or for continuous nearby temperatures in machines and facilities. The feed-through terminals are available in the cross-section range 4 mm<sup>2</sup> to 35 mm<sup>2</sup>. They can be snapped on to a **TS 35** rail.

The **SIK10/Z** fused terminal is designed for holding 6.3x32 micro-fuses. The **SK 1** fused terminals are available in various designs for 5x20 or 5x25 micro-fuses, with or without status displays. The glass-fibre reinforced terminal housing offers a secure grip on the contact element in the case of power loss from fuse cartridges caused by surge current or short circuits. Due to the material used, these products are only available in black!



## Feed-through terminals RK | Fused terminals SIK/SK, in high-temp. design

### The features in detail

#### Terminal blocks RK 2,5-4, RK 6-10, RK 16, RK 35

From all available connection types, the majority of applications use the screw connection. The advantage of the screw connection is its suitability for all cross-sections and wire types. It can be used without any special adjustments for directly connecting the stripped wire end, or for stranded and finely-stranded flexible wires.

When using wire-end ferrules, these should always be crimped with the correct crimping tool before connecting to the terminal. Correct crimping guarantees an absolutely gas-tight, vibration-resistant connection.

#### Features

- Terminal housing can be snapped on TS 35 rail
- Terminal housings made of glass-fibre reinforced polyamide 6.6 V0 in black
- Temperature resistance to +140°C (RTI elec.)



#### Fused terminals SIK 10/Z

Fuse-disconnect terminal featuring extended disconnect lever with locked end position: for holding micro-fuses of size 6.3x32.

#### Features

- Terminal housing can be snapped on TS 35 rail
- Holds 6.3x32-mm fuses
- Two or three disconnect levers can be coupled and operated simultaneously by using the VBS connection sleeves
- Can be used with solid link as disconnect terminal
- Terminal housings made of glass-fibre reinforced polyamide 6.6 V0 in black
- Temperature resistance to +140°C (RTI elec.)



#### Fused terminals SK 1

Fused terminal with screw cap for holding micro-fuses in sizes 5x20 mm and 5x25 mm. Two base terminals are available for different voltage ranges with or without status displays, and optionally fitted with neon indicator, glow lamp or LED.

#### Features

- Terminal housing can be snapped on TS 35 rail
- Suitable for holding micro-fuses of sizes 5x20 and 5x25 mm
- Fuses are screwed into the fused terminal via the screw cap
- Status display for various voltage ranges with LED, neon indicator or glow lamp
- Terminal housings made of glass-fibre reinforced polyamide 6.6 V0 in black
- Temperature resistance to +140°C (RTI elec.)



**Feed-through terminals RK | Fused terminals SIK/SK, in high-temp. design**

**Screw connection system**



- Foot can be snapped on TS 35 DIN rail
- Housing made from Polyamide 6.6 V0, glass-fibre reinforced
- Temperature resistance to 140°C (RTI elec.)

**Connection diagram**

- SIK and SK: Suitable for holding micro-fuses of size 5 x 20 mm, 5 x 25 mm and 6.3 x 32 mm
- SIK and SK: Status display for various voltage ranges with LED, neon indicator or glow lamp

**Connection type**

Dimensions (L x W x H), mm

**Type**

Type/colour black

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Screw cap (spare)

**Cat. no.**

Cross-connector Q / External insulated cross-connector AQI

Insulated cross-connector QI / Cross-connect disc QS

**Cat. no.**

Cross-connector Q / External insulated cross-connector AQI

Insulated cross-connector QI / Cross-connect disc QS

**Cat. no.**

Cross-connector Q / External insulated cross-connector AQI

Insulated cross-connector QI / Cross-connect disc QS

**Cat. no.**

Cross-connector Q / External insulated cross-connector AQI

Insulated cross-connector QI / Cross-connect disc QS

**Cat. no.**

Mounting screw BS for the QS

**Cat. no.**

Screwdriver SDB

**Cat. no.**

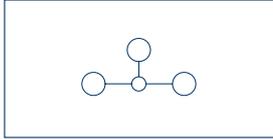
Quick marking PMC SB

**Cat. no.**

**RK 2,5-4/35 PA-G**



M 3



Feed-through terminal  
2 connections

**Screw connection**

48 x 6 x 47

**Qty.**

RK 2,5-4/35 PA-G BK

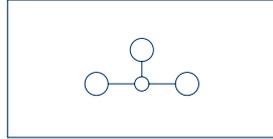
**1748.4**

100

**RK 6-10/35 PA-G**



M 4



Feed-through terminal  
2 connections

**Screw connection**

48 x 8 x 47

**Qty.**

RK 6-10/35 PA-G BK

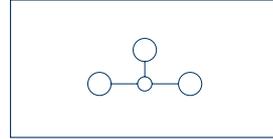
**1749.4**

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**RK 16/35 N PA-G**



M 5



Feed-through terminal  
2 connections

**Screw connection**

54 x 12 x 47

**Qty.**

RK 16/35/N PA-G BK

**2747.4**

50

**IEC CSAus\* CSA\***

800 600 600

32 30 30

4 | 22-10

6 | 3

A4 | V0

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

8

0.5-1.0

**IEC CSAus\* CSA\***

800 600 600

57 65 55

10 | 22-8

6 | 3

A5 | V0

0.2-10 | 0.2-10

0.2-10 | 0.2-10

0.2-10

9

1.2-2.0

**IEC CSAus\* CSA\***

800 600 600

76 65 85

16 | 10-16

8 | 3

B7 | V0

2.5-16 | 2.5-16

2.5-16 | 2.5-16

2.5-25

15

2.0-4.0

PA 6.6 GV 20 V0 | -40 to +140°C

1 | 1

**Page Qty.**

AP 2,5-10 BG

**2001.2** 278 50

TW 2,5-10 BG

**2002.2** 316 50

TRS 1 BG

**2003.2** 316 100

Q 2

**2019.0** 289 50

QI 2 YE

**2740.2** 289 50

Q 3

**2020.0** 289 50

QI 3 YE

**2741.2** 289 50

Q 4

**2021.0** 289 20

QI 4 YE

**2742.2** 289 10

Q 10

**2022.0** 289 10

QI 10 YE

**2743.2** 289 10

PA 6.6 GV 20 V0 | -40 to +140°C

1 | 1

**Page Qty.**

AP 2,5-10 BG

**2001.2** 278 50

TW 2,5-10 BG

**2002.2** 316 50

TRS 1 BG

**2003.2** 316 100

Q 2

**2060.0** 289 50

QI 2 YE

**2750.2** 289 50

Q 3

**2061.0** 289 50

QI 3 YE

**2751.2** 289 50

Q 4

**2062.0** 289 20

QI 4 YE

**2752.2** 289 20

Q 10

**2063.0** 289 10

QI 10 YE

**2753.2** 289 20

PA 6.6 GV 20 V0 | -40 to +140°C

1 | -

**Page Qty.**

Q 2

**2257.0** 290 20

Q 3

**2058.0** 296 20

Q 4

**2265.0** 290 10

Q 10

**2266.0** 290 10

Q 2

**2060.0** 289 50

QI 2 YE

**2750.2** 289 50

Q 3

**2061.0** 289 50

QI 3 YE

**2751.2** 289 50

Q 4

**2062.0** 289 20

QI 4 YE

**2752.2** 289 20

Q 10

**2063.0** 289 10

QI 10 YE

**2753.2** 289 20

Q 2

**2257.0** 290 20

Q 3

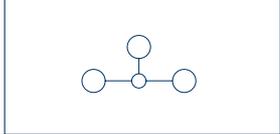
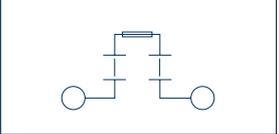
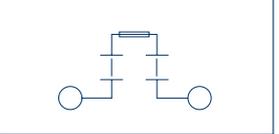
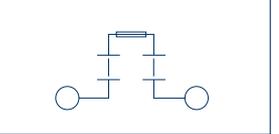
**2058.0** 296 20

Q 4

**2265.0** 290 10

Q 10

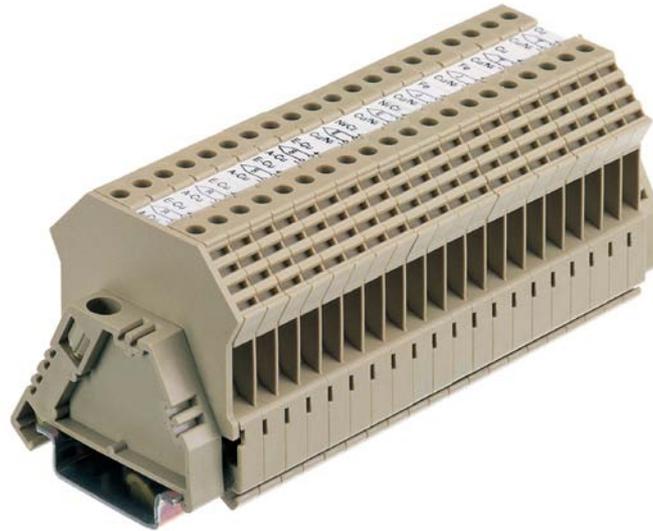
**2266.0** 290 10

RK 35/35 N PA-G			SIK 10/Z PA-G			SK 1/35 PA-G			SK 1/35 LED PA-G			
												
M 6			M 4			M 4			M 4			
												
Feed-through terminal 2 connections			Fused terminal 2 connections			Fused terminal 2 connections			Fused terminal 2 connections			
Screw connection			Screw connection			Screw connection			Screw connection			
58 x 18 x 52			60 x 10 x 69			52 x 12.2 x 62			52 x 12.2 x 62			
<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			<b>Qty.</b>			
RK 35/35/N PA-G BK <b>2748.4</b>			SIK 10/Z PA-G BK <b>17041.4</b> Fuse 6.3x32 mm			SK 1/35 PA-G BK <b>1367.4</b> fuse 5x20 mm			SK 1/35 LED PA-G with LED 24 V DC <b>1380.4</b> 48 V DC <b>1067.4</b> 24 V AC <b>1004.4</b> 48 V AC <b>1119.4</b>			
50			25			20			20			
									SK 1/35 G PA-G w/ neg.-glow lamp 115 V AC <b>1376.4</b> 230 V AC <b>1375.4</b>			
									20			
									SK 1/35 G PA-G w/ neg.-glow lamp 24 V AC/DC <b>1369.4</b> 5x20 mm			
									20			
IEC	CSAus*	CSA*	IEC	CSAus*	CSA*	IEC	CSAus*	CSA*	IEC	CSAus*	CSA*	
800	600	600	500	600	600		400			See above		
125	110	115	10	16	16	10			10			
	35   12-2			10   22-12		10   22-8			10   22-8			
	8   3			8   3		4   3			4   3			
	B9   V0			A4   V0		A5   V0			A5   V0			
	2.5-35   2.5-35			0.2-10   0.2-10		0.2-10   0.2-10			0.2-10   0.2-10			
	2.5-35   2.5-35			0.2-10   0.2-10		0.2-10   0.2-10			0.2-10   0.2-10			
	2.5-35			0.2-10		0.2-10			0.2-10			
	20			12		12			12			
	2.5-5.0			1.2-2.0		1.2-2.0			1.2-2.0			
PA 6.6 GV 20 V0   -40 to +140°C			PA 6.6 GV 20 V0   -40 to +140°C			PA 6.6 GV 20 V0   -40 to +140°C			PA 6.6 GV 20 V0   -40 to +140°C			
1   -			-   1			1   1			-   1			
Page Qty.			Page Qty.			Page Qty.			Page Qty.			
						AP SI BK <b>2047.4</b>			AP SI BK <b>2047.4</b>			
						278 1			278 1			
						SKA 5x20 <b>2049.2</b>			SKA 5x20 <b>2049.2</b>			
						78 20			78 20			
						SKA 5x20 <b>2048.2</b>			78			
						78 20						
Q 2 <b>2164.0</b>			AQI 2/8/18 YE <b>3991.8</b>			QS 2 <b>2366.0</b>			QS 2 <b>2366.0</b>			
290 20			293 50			296 50			296 50			
Q 3 <b>2165.0</b>			AQI 3/10/18 YE <b>3992.8</b>			QS 3 <b>2367.0</b>			QS 3 <b>2367.0</b>			
290 20			293 50			296 50			296 50			
Q 4 <b>2166.0</b>			AQI 4/10/18 YE <b>3993.8</b>			QS 4 <b>2368.0</b>			QS 4 <b>2368.0</b>			
290 10			293 50			296 20			296 20			
Q 10 <b>2167.0</b>			AQI 10/10/18 YE <b>3993.8</b>			QS 10 <b>2369.0</b>			QS 10 <b>2369.0</b>			
290 10			293 50			296 10			296 10			
			AQI 50/10/18 YE <b>3993.8</b>			BS M 3x6 <b>2365.0</b>			BS M 3x6 <b>2365.0</b>			
			293 50			297 100			297 100			
SDB 1,2x6,5 <b>1088.0</b>			SDB 0.6x3.5 <b>1086.0</b>			SDB 0,8x4,0 <b>1087.0</b>			SDB 0,8x4,0 <b>1087.0</b>			
422 1			422 1			422 1			422 1			
PMC SB 6/50 WH <b>4702.7</b>			PMC SB 8/40 WH <b>9323.7</b>			PMC SB 8/40 WH <b>9323.7</b>			PMC SB 8/40 WH <b>9323.7</b>			
340 500			342 400			342 400			342 400			

## Thermocouple terminals TSK

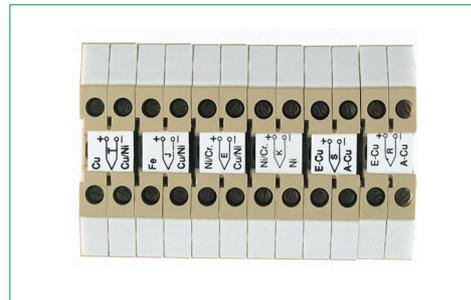


The **TSK** series can be used to extend thermocouple measurement circuits without introducing errors caused by incompatible junction materials.



The **CONTA-CLIP TSK** terminals can be used to clearly label the thermal terminal pair in use. The busbars on the thermocouple terminals are made of the same materials as the compensating lines, in compliance with DIN 43713/DIN 43714. This ensures thermocouple signals are transmitted accurately on the junction between the thermocouple, thermocouple terminal and compensating line.

Thus the base value maintained in accordance with DIN/IEC 584.

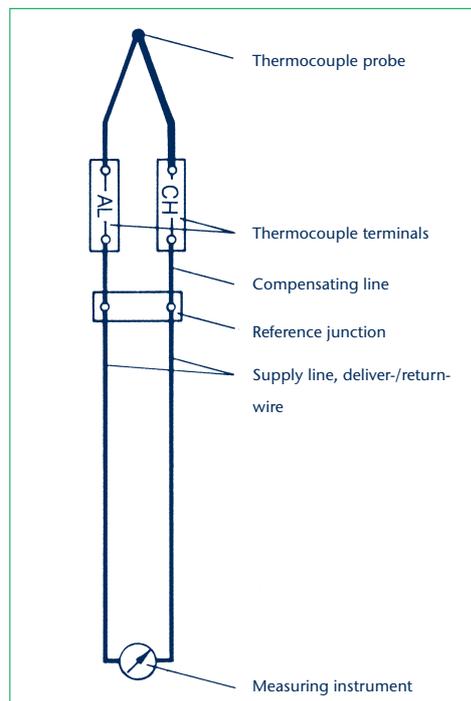


### Features of the TSK 2,5

- Two-pole blocks per thermal pair
- Thermal pair is clearly labelled on the terminal block
- Terminal width of a thermal pair is 10 mm
- Material of busbars corresponds to material of compensating lines.

### Busbar alloys

Type	Cat. no.	Material
TSK 2,5/T	1200.2	Copper/Constantan Cu/CuNi 44
TSK 2,5/J	1201.2	Iron / Constantan Fe/CuNi 44
TSK 2,5/E	1202.2	Nickel-chrome/Constantan NiCr/CuNi 44
TSK 2,5/K	1203.2	Nickel-chrome/Nickel NiCr/Ni
TSK 2,5/S	1204.2	E-copper/A-copper E-Cu/A-Cu
TSK 2,5/R	1205.2	E-copper/A-copper E-Cu/A-Cu



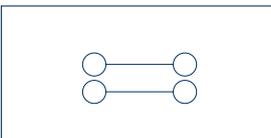
Terminal blocks for temperature measuring circuits TSK

Screw connection system



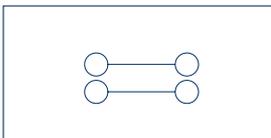
- Busbar materials in compliance with DIN 43713/43714
- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

TSK 2,5



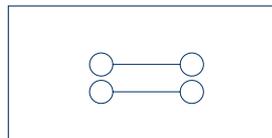
Feed-through terminal  
4 connections

TSK 2,5



Feed-through terminal  
4 connections

TSK 2,5



Feed-through terminal  
4 connections

Connection type

Size (L x W x H)mm with TS 32, mm

Size (L x B x H) mm with TS 35 x 7.5, mm

Type

Type colour

Cat. no.

Busbar material

Type/colour

Cat. no.

Busbar material

Colours available

Rated data, in compliance (Approvals on page xxx)

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Partition plate TW

Cat. no.

End stop ES

Cat. no.

Screwdriver SDB

Cat. no.

Quick marking PMC SB

Cat. no.

Screw connection

48 x 10 x 51.5

48 x 10 x 47

Qty.

TSK 2,5/T BG

**1200.2**

50

Copper / Constantan  
Cu/CuNi 44

TSK 2,5/J BG

**1201.2**

50

Iron / Constantan  
Fe/CuNi 44

②

IEC

UL

CSA

-

-

-

-

-

-

2.5 | 22-12

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

1|0.2-4

7

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AP 2,5-10 BG

**2001.2**

278

50

TW 2,5-10 BG

**2002.2**

316

50

ES 35/K/ST BG

**2828.0**

274

50

SDB 0,5x3,0

**1085.0**

422

1

PMC SB 5/50 WH

**4600.7**

339

500

Screw connection

48 x 10 x 51.5

48 x 10 x 47

Qty.

TSK 2,5/E BG

**1202.2**

50

Nickel-chrome / Constantan  
Ni Cr/Cu Ni 44

TSK 2,5/K BG

**1203.2**

50

Nickel-chrome / Nickel  
NiCr/Ni 44

②

IEC

UL

CSA

-

-

-

-

-

-

2.5 | 22-12

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

1|0.2-4

7

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AP 2,5-10 BG

**2001.2**

278

50

TW 2,5-10 BG

**2002.2**

316

50

ES 35/K/ST BG

**2828.0**

274

50

SDB 0,5x3,0

**1085.0**

422

1

PMC SB 5/50 WH

**4600.7**

339

500

Screw connection

48 x 10 x 51.5

48 x 10 x 47

Qty.

TSK 2,5/S BG

**1204.2**

50

E-copper / A-copper  
E-Cu/A-Cu

TSK 2,5/R BG

**1205.2**

50

E-copper / A-copper  
E-Cu/A-Cu

②

IEC

UL

CSA

-

-

-

-

-

-

2.5 | 22-12

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

1|0.2-4

7

0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C

- | -

Page Qty.

AP 2,5-10 BG

**2001.2**

278

50

TW 2,5-10 BG

**2002.2**

316

50

ES 35/K/ST BG

**2828.0**

274

50

SDB 0,5x3,0

**1085.0**

422

1

PMC SB 5/50 WH

**4600.7**

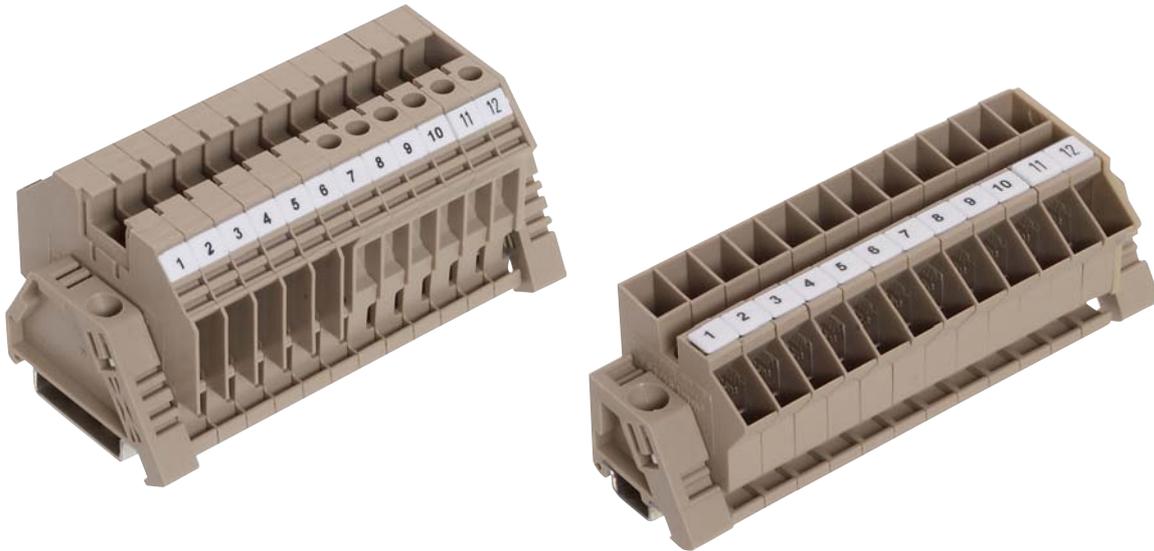
339

500

## Terminal blocks with spade connection FF/SF



The spade connection is a widely standardized connection method. A spade ferrule corresponding to the cross-section is crimped on to the wire end. The spade ferrule then pushes onto the spade terminal so that the wire contacts the terminal. These terminals can be used for interfaces between electronics and electrical systems or for applications where assembled cables are being used.



The rated current of a spade connection depends on the materials and surface properties of the spade ferrule. The rating also depends on the cross-section of the crimped wire and the ambient temperature. The guidelines for permitted continuous currents are described in the DIN draft standard 46249-1. The specified rated voltages are then guaranteed only when the corresponding insulation sleeves are placed on the spade ferrules.

### Features of the FF 2,5 and SF 2,5-4

- Terminal width of only 6 mm
- Connects standard spade plugs of sizes 0.8 x 2.8 mm or 0.8 x 6.3 mm
- Can be easily adapted from spade to screw connection with SF 2,5-4
- Up to 4 spade plugs can be joined to a single potential in one terminal: FF 2,5
- Can be cross-connected using 2-, 3-, 4- or 10-pole cross-connectors

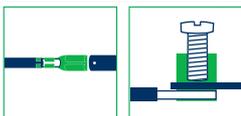
### Features of the FF 1/15

- Terminal width of only 6 mm
- Connects standard spade plugs of sizes 0.8 x 2.8 mm
- Up to 4 spade plugs can be joined to a single potential in one terminal
- Can be cross-connected using 2-, 3-, 4- or 10-pole cross-connectors



# Terminal blocks with spade connection FF/SF

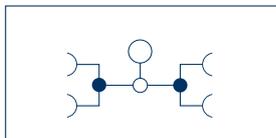
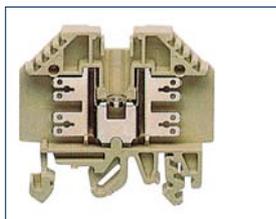
## Screw connection system



- Foot can be snapped on TS 15, TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

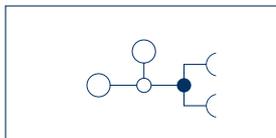
## Connection diagram

### FF 2.5



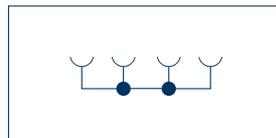
Feed-through terminal  
4 or 8 connections

### SF 2.5-4



Feed-through terminal  
3 or 5 connections

### FF 1/15



Feed-through terminal  
4 connections

## Connection type

Size (L x W x H)mm with TS 15, mm

Size (L x W x H)mm with TS 32, mm

Size (L x B x H) mm with TS 35 x 7.5, mm

## Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

## Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

## Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

## Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

## Accessories

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Socket plug STB

**Cat. no.**

Test plug PS

**Cat. no.**

Insulating sleeve IH

**Cat. no.**

Insulating sleeve IH

**Cat. no.**

Cross-connector Q

2 poles

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

Cross-connector Q

3 poles

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

Cross-connector Q

4 poles

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

Cross-connector Q

10 poles

**Cat. no.**

Insulated cross-connection QI

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

## Spade connection

48 x 6 x 52

48 x 6 x 47

**FF 2.5 BG**  
**1014.2** Qty. 100

IEC
500
15
2.5   -
6   3
-   V2

Fast-on 0.8 x 2.8/6.3

PA 6.6 | -40 to +105°C  
1 | 1

Page	Qty.
AP 2,5-10 BG	278
<b>2001.2</b>	50
TW 2,5-10 BG	316
<b>2002.2</b>	50
TRS 1 BG	316
<b>2003.2</b>	100
STB 14/2.3	317
<b>2006.0</b>	50
PS 2,3	317
<b>2007.0</b>	20
IH 2.8	213
<b>2435.0</b>	200
IH 6,3	213
<b>2429.0</b>	200
Q 2	289
<b>2019.0</b>	50
QI 2 YE	289
<b>2740.2</b>	50
Q 3	289
<b>2020.0</b>	50
QI 3 YE	289
<b>2741.2</b>	50
Q 4	289
<b>2021.0</b>	20
QI 4 YE	289
<b>2742.2</b>	20
Q 10	289
<b>2022.0</b>	10
QI 10 YE	289
<b>2743.2</b>	10
ES 35/K/ST BG	274
<b>2828.0</b>	50
PMC SB 6/50 WH	340
<b>4702.7</b>	500

## Screw connection

48 x 6 x 52

48 x 6 x 47

**SF 2.5-4 BG**  
**1019.2** Qty. 100

IEC
500
15
2.5   22-10
6   3
A4   V2

0.2-6 | -  
0.2-6 | 0.2-4  
0.2-0,6  
12  
0.5-1.0 | Slotted M 3  
Fast-on 0.8 x 2.8/6.3

PA 6.6 | -40 to +105°C  
1 | 1

Page	Qty.
AP 2,5-10 BG	278
<b>2001.2</b>	50
TW 2,5-10 BG	316
<b>2002.2</b>	50
TRS 1 BG	316
<b>2003.2</b>	100
STB 14/2.3	317
<b>2006.0</b>	50
PS 2,3	317
<b>2007.0</b>	20
IH 2.8	213
<b>2435.0</b>	200
IH 6,3	213
<b>2429.0</b>	200
Q 2	289
<b>2019.0</b>	50
QI 2 YE	289
<b>2740.2</b>	50
Q 3	289
<b>2020.0</b>	50
QI 3 YE	289
<b>2741.2</b>	50
Q 4	289
<b>2021.0</b>	20
QI 4 YE	289
<b>2742.2</b>	20
Q 10	289
<b>2022.0</b>	10
QI 10 YE	289
<b>2743.2</b>	10
ES 35/K/ST BG	274
<b>2828.0</b>	50
SDB 0.6x3.5	422
<b>1086.0</b>	1
PMC SB 6/50 WH	340
<b>4702.7</b>	500

## Spade connection

32 x 6 x 34

**FF 1/15 BG**  
**1032.2** Qty. 100

IEC
400
6
1   -
6   3
-   V2

Fast-on 0.8 x 2.8

PA 6.6 | -40 to +105°C  
1 | -

Page	Qty.
AP/FF 1/15 BG	278
<b>2421.2</b>	50
TW 1.5-4 BG	316
<b>2071.2</b>	50
STB 8.5/2.3	317
<b>2075.0</b>	50
PS 2,3	317
<b>2007.0</b>	20
IH 2.8	213
<b>2435.0</b>	200
Q 2	289
<b>2019.0</b>	50
Q 3	289
<b>2020.0</b>	50
Q 4	289
<b>2021.0</b>	20
Q 10	289
<b>2022.0</b>	10
ES 15 BG	274
<b>2074.2</b>	50
PMC SB 6/50 WH	340
<b>4702.7</b>	500

## Feed-through terminals, yellow/green RK

### Screw connection system



- No protective earth function (no contact with DIN rail)
- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

### Connection type

Size (L x W x H) with TS 32, mm

Size (L x W x H) with TS 35 x 7.5 mm

### Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Finely stranded/Finely stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Special connection, mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

End plate AP

Cat. no.

Partition plate TW

Cat. no.

Insulation plate TRS

Cat. no.

Cross-connector Q / Insulated cross-connector QI/AQI

Cat. no.

Cover AD

Cat. no.

Inlay profile EP

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Screwdriver SDB

Cat. no.

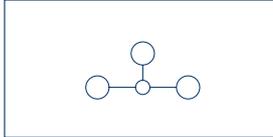
Quick marking PMC SB

Cat. no.

### RK 2.5/PE



M 2.5



Feed-through terminal  
2 connections

### Screw connection

48 x 5 x 51.5

48 x 5 x 47

### Qty.

RK 2.5/PE YEGN

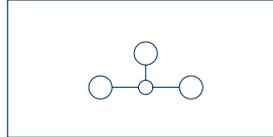
**1562.2**

100

### RK 2.5-4/PE



M 3



Feed-through terminal  
2 connections

### Screw connection

48 x 6 x 51.5

48 x 6 x 47

### Qty.

RK 2.5-4/PE YEGN

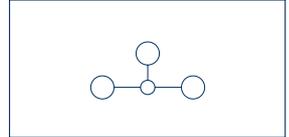
**1563.2**

100

### RK 6-10/PE



M 4



Feed-through terminal  
2 connections

### Screw connection

48 x 8 x 51.5

48 x 8 x 47

### Qty.

RK 6-10/PE YEGN

**1564.2**

100

2.5 | 22-12

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

1 | -

Page

Qty.

AP 2.5-10 YE

**2001.8**

278

50

TW 2.5-10 BG

**2002.5**

316

50

TRS 3 BG

**2566.2**

316

100

Q 2

**2567.0**

288

50

Q 3

**2568.0**

288

50

Q 4

**2569.0**

288

20

Q 10

**2570.0**

288

10

SDB 0.5x3

**1085.0**

422

1

PMC SB 5/50 WH

**4600.7**

339

500

4 | 22-10

6 | 3

A4 | V2

0.2-6 | -

0.2-6 | 0.2-4

0.2-6

12

0.5-1.0 | Slotted M 3

-

PA 6.6 | -40 to +105°C

1 | -

Page

Qty.

AP 2.5-10 YE

**2001.8**

278

50

TW 2.5-10 BG

**2002.2**

316

50

TRS 1 BG

**2003.2**

316

100

Q 2

**2019.0**

289

50

QI 2 YE

**2740.2**

289

50

Q 3

**2020.0**

289

50

QI 3 YE

**2741.2**

289

50

Q 4

**2021.0**

289

20

QI 4 YE

**2742.2**

289

20

Q 10

**2022.0**

289

10

QI 10 YE

**2743.2**

289

10

10 | 22-8

6 | 3

A5 | V2

0.2-10 | 0.2-10

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

-

PA 6.6 | -40 to +105°C

1 | -

Page

Qty.

AP 2.5-10 YE

**2001.8**

278

50

TW 2.5-10 BG

**2002.2**

316

50

TRS 1 BG

**2003.2**

316

100

Q 2

**2060.0**

289

50

QI 2 YE

**2750.2**

289

50

Q 3

**2061.0**

289

50

QI 3 YE

**2751.2**

289

50

Q 4

**2062.0**

289

20

QI 4 YE

**2752.2**

289

20

Q 10

**2063.0**

289

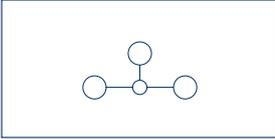
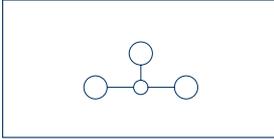
10

QI 10 YE

**2753.2**

289

10

RK 16/35 N/PE			RK 35/35 N/PE					
								
M 5 			M 6 					
								
Feed-through terminal 2 connections			Feed-through terminal 2 connections					
Screw connection			Screw connection					
54 x 11.9 x 47			58 x 16 x 52					
		Qty.			Qty.			
RK 16/35 N/PE YEGN		50	RK 35/35 N/PE YEGN		20			
<b>1565.2</b>			<b>1566.2</b>					
16   10-6			35   12-2					
8   3			8   3					
B7   V2			B9   V2					
2.5-16   2.5-25			2.5-16   2.5-50					
2.5-16   2.5-16			2.5-35   2.5-35					
0.2-25			0.2-50					
15			20					
2.0-4.0   Slotted M 5			2.5-5.0   Slotted M 6					
-			-					
PA 6.6   -40 to +105°C			PA 6.6   -40 to +105°C					
1   -			1   -					
		Page Qty.			Page Qty.			
Q 2		290 20	Q 2		290 20			
<b>2257.0</b>			<b>2164.0</b>					
Q 3		290 20	Q 3		290 20			
<b>2258.0</b>			<b>2165.0</b>					
Q 4		290 10	Q 4		290 10			
<b>2265.0</b>			<b>2166.0</b>					
Q 10		290 10	Q 10		290 10			
<b>2266.0</b>			<b>2167.0</b>					
SDB 0.8x4.0			SDB 1.2x6.5					
<b>1087.0</b>			<b>1088.0</b>					
PMC SB 6/50 WH			PMC SB 6/50 WH					
<b>4702.7</b>			<b>4702.7</b>					
422 1			422 1					
340 500			340 500					

## Feed-through terminals, yellow/green RK

### Screw connection system



- No protective earth function (no contact with DIN rail)
- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2



### Connection type

Size (L x W x H) with TS 32, mm

Size (L x W x H) with TS 35 x 7.5 mm

### Type

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

### Connection data

Single wire (solid) / Stranded mm<sup>2</sup>

Finely stranded/Finely stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Banded wire up to mm

### Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

### Accessories

The AQI external insulated cross-connection

**Cat. no.** 2 poles

External insulated cross-connection AQI

**Cat. no.** 3 poles

Cover AD

**Cat. no.**

Inlay profile EP

**Cat. no.**

Allen key socket wrench ISKS

**Cat. no.**

End stop ES

**Cat. no.**

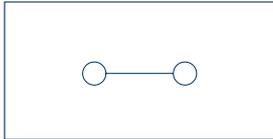
Quick marking PMC SB

**Cat. no.**



More accessories starting on page 264.

### RK 50/PE



Feed-through terminal  
2 connections

### Screw connection

78 x 20 x 82

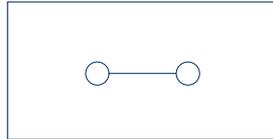
79 x 20 x 76.5

### Qty.

RK 50/PE YEGN

**1567.2** 10

### RK 95/PE



Feed-through terminal  
2 connections

### Screw connection

84 x 25 x 94

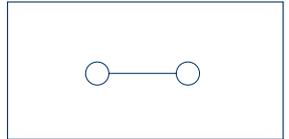
84 x 25 x 88.5

### Qty.

RK 95/PE YEGN

**1568.2** 10

### RK 150/PE



Feed-through terminal  
2 connections

### Screw connection

93 x 31 x 118.5

93 x 31 x 112.8

### Qty.

RK 150/PE YEGN

**1569.2** 5

50 | 1/0-6  
8 | 3  
B10 | V2

16-50 | 25-50  
25-50 | 25-50  
16-50  
27  
3-6 | Hexagon socket M 6  
11.8 x 5

PA 6.6 | -40 to +105°C

	Page	Qty.
AQI 2/50 YE	293	5
<b>2763.2</b>		
AQI 3/50 YE	293	5
<b>2764.2</b>		
AD 1/50/B YE	291	20
<b>2810.0</b>		
EP 50	41	10
<b>2274.0</b>		
ISKS 5	422	1
<b>2818.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

95 | 4/0-2  
8 | 3  
B12 | V2

25-95 | 35-95  
35-95 | 35-95  
25-95  
30  
6-12 | Hexagon socket M 8  
16 x 6

PA 6.6 | -40 to +105°C

	Page	Qty.
AQI 2/95 YE	294	5
<b>2765.2</b>		
AQI 3/95 YE	294	5
<b>2766.2</b>		
AD 1/95/B YE	311	20
<b>2804.0</b>		
EP 95	41	10
<b>2275.0</b>		
ISKS 6	422	1
<b>2772.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

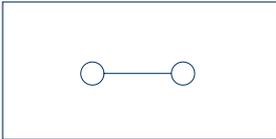
150 | 300-2  
8 | 3  
B14 | V2

35-150 | 50-150  
50-150 | 50-150  
35-150  
38  
10-20 | Hexagon socket M 10  
20 x 8

PA 6.6 | -40 to +105°C

	Page	Qty.
AQI 2/150 YE	294	5
<b>2767.2</b>		
AQI 3/150 YE	294	5
<b>2768.2</b>		
AD 1/150/B YE	311	20
<b>2806.0</b>		
EP 150	41	10
<b>2277.0</b>		
ISKS 8	422	1
<b>2773.0</b>		
ES 35/K/ST BG	274	50
<b>2828.0</b>		
PMC SB 6/50 WH	340	500
<b>4702.7</b>		

**RK 240/PE**



Feed-through terminal  
2 connections

**Screw connection**  
93 x 36 x 132  
93 x 36 x 126.3

	<b>Qty.</b>
RK 240/PE YEGN <b>1570.2</b>	5

240 | 500-2/0  
8 | 3  
B16 | V2

70-240 | 70-240  
70-240 | 70-185  
70-240  
38

10-20 | Hexagon socket M 10  
20 x 12

PA 6.6 | -40 to +105°C

-

	<b>Page</b>	<b>Qty.</b>
AQI 2/240 YE <b>2769.2</b>	294	5
AQI 3/240 YE <b>2770.2</b>	294	5
AD 1/240/B YE <b>2808.0</b>	311	20
EP 240 <b>2360.0</b>	41	10
ISKS 8 <b>2773.0</b>	422	1
ES 35/K/ST BG <b>2828.0</b>	274	50
PMC SB 6/50 WH <b>4702.7</b>	340	500

## Screw-distributor blocks SVB



The **SVB** screw-type distributor block makes it possible to distribute potential and power in a compact space without any additional accessories. You can use the distributor block to establish an electro-mechanical connection between a wire with a large cross-section and one or more wires with small cross-sections. They can be used in installation and distribution board construction and also in controller construction for machinery.

The SVB blocks are mounted by snapping them on to **TS 35** DIN rails. They can also be attached directly to a mounting plate using the screw flange located on the side of the housing.



# Screw-distributor blocks SVB

## Diagrams

**SVB 80** **Diagram 1**

**SVB 125** **Diagram 2**

**SVB 175** **Diagram 3**

**SVB 250** **Diagram 4**

**SVB 400** **Diagram 5**

**SVB 160** **Diagram 6**

**SVB 175/3** **Diagram 7**

**SVB 125/4** **Diagram 8**

## Screw-distributor blocks SVB

### Screw connection system



#### Features

- High short-circuit resistance rating
- IP20-class protection
- Simple handling
- Space-saving design

- Foot base can be snapped on TS 35 DIN rail or suitable for direct mounting
- Modular design (single- or three-phase block)
- Suitable for copper wires
- Housing made from polyamide 6.6 UL 94-V0

### SVB 80



**Diagram 1**  
Page 219

Current distributor block  
7 connections

### SVB 125



**Diagram 2**  
Page 219

Current distributor block  
8 connections

### SVB 175



**Diagram 3**  
Page 219

Current distributor block  
11 connections

### Connection type

Dimensions (L x W x H), directly installed, mm

Size (L x W x H) with TS 35 x 7.5 mm

Weight, g

### Type

Type

Cat. no.

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated cross-section for input and output, mm<sup>2</sup>

Rated cross-section for input and output, AWG

Rated impulse voltage, kV | Contamination degree

Flamm. class UL 94

### Short-circuit resistance rating

Short-circuit current resistance IPK (peak value), kA

Short-circuit current resistance ICW over 1s, kA

SCCR rating kV | Class J series fuse required, A

### Connection data

#### Inputs

Number of connections

Clampable wire: mm<sup>2</sup>

"e" single wire H07V-U

"m" stranded H07V-R

"f" finely stranded H07V-K

"f" finely stranded H07V-K and ferrule DIN 46 228/1

"f" finely stranded H07V-K and ferrule with plastic collar

Diameter mm

Torque Nm

Terminal screw

Blade size

Stripping length mm

#### Outputs

Number of connections

Clampable wire: mm<sup>2</sup>

"e" single wire H07V-U

"m" stranded H07V-R

"f" finely stranded H07V-K

"f" finely stranded H07V-K and ferrule DIN 46 228/1

"f" finely stranded H07V-K and ferrule with plastic collar

Diameter mm

Torque Nm

Terminal screw

Blade size

Stripping length mm

### Accessories

End stop ES

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Screwdriver SDK

Cat. no.

Screwdriver SDK

Cat. no.

### Additional accessories

More accessories starting on page 264.

### Screw connection

66 x 27 x 47

66 x 27 x 50

63

SVB 80 LG

**1740.0**

1

0

IEC UL cUL

1000 600 600

80 80 80

16 | 16 - 6

8 - 4 | 14 - 4

2.5 | 3

V0

2,7

1,9

100 | 80

A B C

1

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

7

1,5 - 3

M5

PZ2

10 - 12

A B C

2

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

7

1.5-3

M5

PZ2

10-12

Page Qty.

ES 35/K/ST BG

**2828.0**

274 50

Allen key socket wrench ISKS

SDK 1,0x80

**2289.0**

422 1

SDK 1,0x100

**2290.0**

422 1

### Screw connection

75 x 27 x 47

75 x 27 x 50

134

SVB 125 LG

**1741.0**

1

0

IEC UL cUL

1000 600 600

125 115 115

35 - 16 | 16

8 - 2 | 14 - 4

2.5 | 3

V0

30

4,2

100 | 125

A B C

1 1

10-35 2.5-16

10-35 2.5-16

10-35 2.5-16

10-35 2.5-16

10-35 2.5-16

10-35 2.5-16

10-35 2.5-16

10-35 2.5-16

10

3,5-5

M8 M6

M4 M4

14-16 12-15

A B C

6

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

6.5

2-3

M5

PZ2

10-12

Page Qty.

ES 35/K/ST BG

**2828.0**

274 50

Allen key socket wrench ISKS

SDK 1,0x100

**2290.0**

422 1

### Screw connection

71 x 45 x 43

71 x 45 x 46

228

SVB 175 LG

**1742.0**

1

0

IEC UL cUL

1000 600 600

175 115 175

70 | 16

8 - 2 | 14 - 6

2.5 | 3

V0

30

11

-

A B C

1

16-70

16-70

16-70

16-50

16-50

16-50

16-50

12

6-10

M10

M5

14-16

A B C

10

2.5-16

2.5-16

2.5-16

2.5-10

2.5-10

2.5-10

6.5

3-4

M6

M3

10-12

Page Qty.

ES 35/K/ST BG

**2828.0**

274 50

Allen key socket wrench ISKS

ISKS 5

**2818.0**

422 1

**SVB 250**



**Diagram 4**  
Page 219

Current distributor block  
12 connections

**Screw connection**  
96 x 44 x 50  
96 x 44 x 53  
434

**Qty.**  
SVB 250 LG  
**1743.0** 1

IEC	UL
1000	600
250	230
120   35-16-10 2 - 4 (1) 2.5   3 V0	
51	
24.5	
100   250	

**A B C**

1		
35-120		
35-120		
35-120		
35-95		
35-95		
35-95		
15		
19-21		
M14		
M6		
27-29		

**A B C**

2	5	4
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
9	6.5	6
3,5-7	2-3	2-3
M8	M6	M6
1.2 x 6.5	0.8 x 4.0	0.8 x 4.0
10-12	10-12	10-12

**Page Qty.**

ES 35/K/ST BG <b>2828.0</b>	274	50
ISKS 6 <b>2772.0</b>	422	1
SDB 0.8x4.0 <b>1087.0</b>	422	1
SDB 1.2x6.5 <b>1088.0</b>	422	1

**SVB 400**



**Diagram 5**  
Page 219

Current distributor block  
12 connections

**Screw connection**  
96 x 44 x 50  
96 x 44 x 53  
414

**Qty.**  
SVB 400 LG  
**1744.0** 1

IEC	UL
1000	600
400	310
185   35-16-10 3/0 - 350 2.5   3 V0	
51	
21	
100   350	

**A B C**

1		
95-185		
95-185		
95-185		
95-150		
95-150		
95-150		
19		
25-27		
M16		
M8		
27-29		

**A B C**

2	5	4
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
9	6.5	6
3,5-7	2-3	2-3
M8	M6	M6
1.2 x 6.5	0.8 x 4.0	0.8 x 4.0
10-12	10-12	10-12

**Page Qty.**

ES 35/K/ST BG <b>2828.0</b>	274	50
ISKS 8 <b>2773.0</b>	422	
SDB 0.8x4.0 <b>1087.0</b>	422	1
SDB 1.2x6.5 <b>1088.0</b>	422	1

**SVB 160**



**Diagram 6**  
Page 219

Current distributor block  
7 connections with busbar distribution

**Screw connection**  
92 x 35 x 50  
92 x 35 x 54  
238

**Qty.**  
SVB 160 LG  
**1746.0** 1

IEC	UL	cUL
1000	600	600
160	160	160
70   126 8 - 2/0   14 - 4 2.5   3 V0		
30		
11		
100   175		

**A B C**

1		
10-70		
10-70		
10-70		
10-70		
10-70		
10-70		
13		
5-6		
M10		
M5		
16-18		

**A B C**

6	Busbar	
16 x 5 mm max.		
2.5-16		
2.5-16		
2.5-16		
2.5-16		
2.5-16		
2.5-16		
7		
1.5-3	2-3	
M5	M6	
PZ2	M5	
10-12		

**Page Qty.**

ES 35/K/ST BG <b>2828.0</b>	274	50
ISKS 5 <b>2818.0</b>	422	1
ISKS 6 <b>2772.0</b>	422	1

**SVB 175/3**



**Diagram 7**  
Page 219

Current distributor block  
3 x 7 connections

**Screw connection**  
71 x 80 x 43  
71 x 80 x 46  
386

**Qty.**  
SVB 175/3 LG  
**1745.0** 1

IEC	UL	cUL
1000	600	600
175	115	175
70   16 8 - 2   14 - 6 2.5   3 V0		
30		
11		
100   175		

**A B C**

3 x 1		
16-70		
16-70		
16-70		
16-50		
16-50		
16-50		
12		
6-10		
M10		
M5		
14-16		

**A B C**

3 x 6		
2.5-16		
2.5-16		
2.5-16		
2.5-10		
2.5-10		
2.5-10		
6.5		
3-4		
M6		
M3		
10-12		

**Page Qty.**

ES 35/K/ST BG <b>2828.0</b>	274	50
ISKS 5 <b>2818.0</b>	422	1
ISKS 6 <b>2772.0</b>	422	1

**SVB 125/4**



**Diagram 8**  
Page 219

Current distributor block  
3 x 8 connections with neutral busbar

**Screw connection**  
74 x 98 x 50  
74 x 98 x 53  
314

**Qty.**  
SVB 125/4 LG  
**1747.0** 1

IEC	
690	
125	
35   16 - 2.5   3 V0	
30	
11,8	
-	

**A B C**

3 x 1	3 x 5	3 x 2
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-25	1.5-6	4-10
6-25	1.5-6	4-10
6-25	1.5-6	4-10
9	5	7
1,5	0.8	1,5
M5	M4	M5
PZ2	PZ1	PZ2
12-18	9-12	12-18

**Neutral wire**

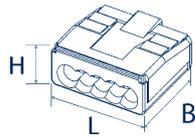
1	4	6
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-25	1.5-6	4-10
6-25	1.5-6	4-10
6-25	1.5-6	4-10
9	5	7
1,5	0.8	1,5
M5	M4	M5
PZ2	PZ1	PZ2
12-18	9-12	12-18

**Page Qty.**

ES 35/K/ST BG <b>2828.0</b>	274	50
SDK 1,0x80 <b>2289.0</b>	422	1
SDK 1,0x100 <b>2290.0</b>	422	1

## Pressure-spring junction terminals D

### Pressure-spring junction terminal 1.5 mm<sup>2</sup>



**Features:**

- For single-core wire
- Housing made from polyamide 6.6 UL 94-V2
- Temperature range: -20°C to +80°C
- Can be mounted side-by-side

### D1.5/2



Junction terminal 1.5 mm<sup>2</sup>  
2 poles

### D1.5/3



Junction terminal 1.5 mm<sup>2</sup>  
3 poles

### D1.5/4



Junction terminal 1.5 mm<sup>2</sup>  
4 poles

#### Connection type

Dimensions (L x W x H), mm

#### Type

Type/colour

Cat. no.

#### Ratings

Rated voltage, V

Rated current, A (UL: AWG 16/18)

#### Connection data

Single-core (solid), mm<sup>2</sup>| AWG

Stripping length, mm

No. of poles

#### Material

Material of insulated housing

Temperature range

Flamm. class acc. to UL 94

Busbar

Pressure spring

#### Pressure-spring system

9.1 x 16.3 x 8.0

#### Qty.

D1.5/2 LG

3980.0

100

IEC

UL

450

450

20

18/17

0.75 - 1.5 | 18 - 16

10

2

PA 6

-20°C to +80°C

V2

Copper alloy

Steel

#### Pressure-spring system

12.0 x 16.3 x 8.0

#### Qty.

D1.5/3 LG

3981.0

100

IEC

UL

450

450

20

18/17

0.75 - 1.5 | 18 - 16

10

3

PA 6

-20°C to +80°C

V2

Copper alloy

Steel

#### Pressure-spring system

14.8 x 16.3 x 8.0

#### Qty.

D1.5/4 LG

3982.0

100

IEC

UL

450

450

20

18/17

0.75 - 1.5 | 18 - 16

10

4

PA 6

-20°C to +80°C

V2

Copper alloy

Steel

### Pressure-spring junction terminal 2.5 mm<sup>2</sup>

### D2.5/2



Junction terminal 2.5mm<sup>2</sup>  
2 poles

### D2.5/3



Junction terminal 2.5 mm<sup>2</sup>  
3 poles

### D2.5/4



Junction terminal 2.5 mm<sup>2</sup>  
4 poles

#### Connection type

Dimensions (L x W x H), mm

#### Type

Type/colour

Cat. no.

#### Ratings

Rated voltage, V

Rated current, A

#### Connection data

Single-core (solid), mm<sup>2</sup>| AWG

Stripping length, mm

No. of poles

#### Material

Material of insulated housing

Temperature range

Flamm. class acc. to UL 94

Busbar

Pressure spring

#### Pressure-spring system

10.7 x 17.5 x 9.0

#### Qty.

D2.5/2 DG

3985.4

100

IEC

UL

450

450

25

30

1.0 - 2.5 | 14

10

2

PA 6

-20°C to +80°C

V2

Copper alloy

Steel

#### Pressure-spring system

14.4 x 17.5 x 9.0

#### Qty.

D2.5/3 DG

3986.4

100

IEC

UL

450

450

25

30

1.0 - 2.5 | 14

10

3

PA 6

-20°C to +80°C

V2

Copper alloy

Steel

#### Pressure-spring system

18.0 x 17.5 x 9.0

#### Qty.

D2.5/4 DG

3987.4

100

IEC

UL

450

450

25

30

1.0 - 2.5 | 14

10

4

PA 6

-20°C to +80°C

V2

Copper alloy

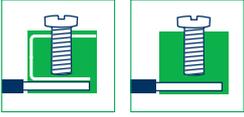
Steel

D1.5/5	D1.5/8			
				
Junction terminal 1.5 mm <sup>2</sup> 5 poles	Junction terminal 1.5 mm <sup>2</sup> 8 poles			
Pressure-spring system	Pressure-spring system			
17.6 x 16.3 x 8.0	26.0 x 16.3 x 8.0			
<b>Qty.</b>	<b>Qty.</b>			
D1.5/5 LG <b>3983.0</b> 100	D1.5/8 LG <b>3984.0</b> 100			
<b>IEC</b> 450 20	<b>IEC</b> 450 20			
<b>UL</b> 450 18/17	<b>UL</b> 450 18/17			
0.75 - 1.5   18 - 16 10 5	0.75 - 1.5   18 - 16 10 8			
PA 6 -20°C to +80°C V2 Copper alloy Steel	PA 6 -20°C to +80°C V2 Copper alloy Steel			

D2.5/5	D2.5/8	Pressure-spring junction terminal 4 mm <sup>2</sup>	D4.0/3
			
Junction terminal 2.5 mm <sup>2</sup> 5 poles	Junction terminal 2.5 mm <sup>2</sup> 8 poles		Junction terminal 4.0 mm <sup>2</sup> 3 poles
Pressure-spring system	Pressure-spring system		Pressure-spring system
21.5 x 17.5 x 9.0	32.3 x 17.5 x 9.0	Dimensions (L x W x H), mm	18.0 x 21.8 x 13.05
<b>Qty.</b>	<b>Qty.</b>	<b>Type</b>	<b>Qty.</b>
D2.5/5 DG <b>3988.4</b> 100	D2.5/8 DG <b>3989.4</b> 100	Type/colour	D4.0/3 LG <b>3990.0</b> 50
<b>IEC</b> 450 25	<b>IEC</b> 450 25	<b>Cat. no.</b>	<b>IEC</b> 450
<b>UL</b> 450 30	<b>UL</b> 450 30	<b>Ratings</b>	<b>UL</b> 450
1.0 - 2.5   14 10 5	1.0 - 2.5   14 10 8	Rated voltage, V	32
PA 6 -20°C to +80°C V2 Copper alloy Steel	PA 6 -20°C to +80°C V2 Copper alloy Steel	Rated current, A (UL: AWG 12/16)	35/18
		<b>Connection data</b>	1.5 - 4.0   16 - 12
		Single-core (solid), mm <sup>2</sup>   AWG	10
		Stripping length, mm	3
		No. of poles	
		<b>Material</b>	
		Material of insulated housing	PA 6
		Temperature range	-20°C to +80°C
		Flamm. class acc. to UL 94	V2
		Busbar	Copper alloy
		Pressure spring	Steel

## Cutable terminal strips EKB

### Screw connection system

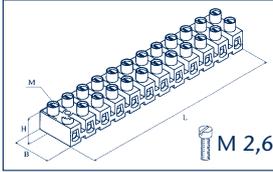


The EKB variants cover a rated cross-section range from 1.5 to 10 mm<sup>2</sup>. They are available from 1 to 12 poles. An attachment hole is located between each of the poles which guarantees proper mechanical alignment during installation. The terminal housing is made from high-quality polyamide (PA 6.6 UL 94-V2).

#### Features:

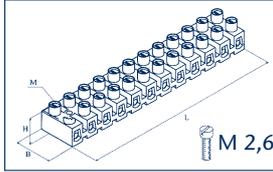
- Housing made from polyamide 6.6 UL 94-V2
- colour: transparent/black/white
- Terminal body: Nickel-plated brass
- Wire protection spring: Stainless spring steel

### EKB 1,5/...DS



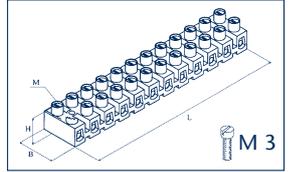
Cutable terminal 1.5 mm<sup>2</sup> with wire protection

### EKB 1,5/...



Cutable terminal 1.5 mm<sup>2</sup> without wire protection

### EKB 2.5/...DS



Cutable terminal 2.5 mm<sup>2</sup> with wire protection

### Connection type

Dimensions (L x W x H),mm

### Screw connection

95.4\* x 18 x 14

### Screw connection

95.4\* x 18 x 14

### Screw connection

117.5\* x 20 x 17

### Type

Type/colour

Cat. no.

Length, mm Qty.

EKB 1,5/1 DS

**1806.0** 5.7 100

EKB 1,5/2 DS

**1807.0** 13.9 100

EKB 1,5/3 DS

**1808.0** 23.1 100

EKB 1,5/4 DS

**1809.0** 30.3 100

EKB 1,5/5 DS

**1810.0** 38.5 100

EKB 1,5/6 DS

**1811.0** 46.7 100

EKB 1,5/7 DS

**1812.0** 54.9 100

EKB 1,5/8 DS

**1813.0** 63.1 100

EKB 1,5/9 DS

**1814.0** 71.3 100

EKB 1,5/10 DS

**1815.0** 79.5 100

EKB 1,5/11 DS

**1816.0** 87.7 100

EKB 1,5/12 DS

**1817.0** 95.4 100

Length, mm Qty.

EKB 1,5/1

**1964.0** 5.7 100

EKB 1,5/2

**1965.0** 13.9 100

EKB 1,5/3

**1966.0** 23.1 100

EKB 1,5/4

**1967.0** 30.3 100

EKB 1,5/5

**1968.0** 38.5 100

EKB 1,5/6

**1969.0** 46.7 100

EKB 1,5/7

**1970.0** 54.9 100

EKB 1,5/8

**1971.0** 63.1 100

EKB 1,5/9

**1972.0** 71.3 100

EKB 1,5/10

**1973.0** 79.5 100

EKB 1,5/11

**1974.0** 87.7 100

EKB 1,5/12

**1975.0** 95.4 100

Length, mm Qty.

EKB 2.5/2 DS

**1818.0** 6.4 100

EKB 2.5/2 DS

**1819.0** 16.5 100

EKB 2.5/3 DS

**1820.0** 26.6 100

EKB 2.5/4 DS

**1821.0** 36.7 100

EKB 2.5/5 DS

**1822.0** 46.8 100

EKB 2.5/6 DS

**1823.0** 56.9 100

EKB 2.5/7 DS

**1824.0** 67 100

EKB 2.5/8 DS

**1825.0** 77.1 100

EKB 2.5/9 DS

**1826.0** 87.2 100

EKB 2.5/10 DS

**1827.0** 97.3 100

EKB 2.5/11 DS

**1828.0** 107.4 100

EKB 2.5/12 DS

**1829.0** 117.5 100

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated cross-section, mm<sup>2</sup>

Torque, Nm | Screw

### Connection data

Single-core (solid), mm<sup>2</sup> | AWG

Finely stranded, mm<sup>2</sup>

Finely stranded (w/ferrules acc. to DIN 46 228/1), mm<sup>2</sup>

### IEC

450

17.5

1.5

0.4 | Slotted M2.6

0.75 - 2.5

0.75 - 1.5

0.5 - 1.5

### IEC

450

17.5

1.5

0.4 | Slotted M2.6

0.75 - 2.5

0.75 - 1.5

0.5 - 1.5

### IEC

450

24

2.5

0.5 | Slotted M3

1.5 - 4

1.5 - 2.5

0.75 - 2.5

### Material of insulated housing

Material of insulated housing

Flamm. class acc. to UL 94

Temperature range

PA 6.6

V2

-40°C to +100°C

PA 6.6

V2

-40°C to +100°C

PA 6.6

V2

-40°C to +100°C

### Accessories

Screwdriver SDB

Cat. no.

Page Qty.

SDB 0.6x3.5

**1086.0** 422 1

Page Qty.

SDB 0.6x3.5

**1086.0** 422 1

Page Qty.

SDB 0.6x3.5

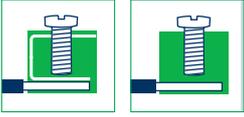
**1086.0** 422 1

\*= The length of the 12-pole version is specified here. Additional pole-dependent lengths are specified next to the catalogue numbers.

EKB 2.5/...		EKB 4/...DS		EKB 4/...		EKB 10/...DS		EKB 10/...	
Cutttable terminal 2.5 mm <sup>2</sup> without wire protection		Cutttable terminal 4 mm <sup>2</sup> with wire protection		Cutttable terminal 4 mm <sup>2</sup> without wire protection		Cutttable terminal 10 mm <sup>2</sup> with wire protection		Cutttable terminal 10 mm <sup>2</sup> without wire protection	
<b>Screw connection</b>		<b>Screw connection</b>		<b>Screw connection</b>		<b>Screw connection</b>		<b>Screw connection</b>	
117.5* x 20 x 17		135.7* x 23 x 19		135.7* x 23 x 19		174* x 28 x 22		174* x 28 x 22	
<b>Length, mm Qty.</b>		<b>Length, mm Qty.</b>		<b>Length, mm Qty.</b>		<b>Length, mm Qty.</b>		<b>Length, mm Qty.</b>	
EKB 2.5/1 <b>1976.0</b>	6.4 100	EKB 4/1 DS <b>1830.0</b>	8.1 100	EKB 4/1 <b>1988.0</b>	8.1 100	EKB 10/1 DS <b>1842.0</b>	12.3 100	EKB 10/1 <b>1750.0</b>	12.3 100
EKB 2.5/2 <b>1977.0</b>	16.5 100	EKB 4/2 DS <b>1831.0</b>	19.7 100	EKB 4/2 <b>1989.0</b>	19.7 100	EKB 10/2 DS <b>1843.0</b>	27 100	EKB 10/2 <b>1751.0</b>	27 100
EKB 2.5/3 <b>1978.0</b>	26.6 100	EKB 4/3 DS <b>1832.0</b>	31.3 100	EKB 4/3 <b>1990.0</b>	31.3 100	EKB 10/3 DS <b>1844.0</b>	41.7 100	EKB 10/3 <b>1752.0</b>	41.7 100
EKB 2.5/4 <b>1979.0</b>	36.7 100	EKB 4/4 DS <b>1833.0</b>	42.9 100	EKB 4/4 <b>1991.0</b>	42.9 100	EKB 10/4 DS <b>1845.0</b>	56.4 100	EKB 10/4 <b>1753.0</b>	56.4 100
EKB 2.5/5 <b>1980.0</b>	46.8 100	EKB 4/5 DS <b>1834.0</b>	54.5 100	EKB 4/5 <b>1992.0</b>	54.5 100	EKB 10/5 DS <b>1846.0</b>	71.1 100	EKB 10/5 <b>1754.0</b>	71.1 100
EKB 2.5/6 <b>1981.0</b>	56.9 100	EKB 4/6 DS <b>1835.0</b>	66.1 100	EKB 4/6 <b>1993.0</b>	66.1 100	EKB 10/6 DS <b>1847.0</b>	85.5 100	EKB 10/6 <b>1755.0</b>	85.5 100
EKB 2.5/7 <b>1982.0</b>	67 100	EKB 4/7 DS <b>1836.0</b>	77.7 100	EKB 4/7 <b>1994.0</b>	77.7 100	EKB 10/7 DS <b>1848.0</b>	100.5 100	EKB 10/7 <b>1756.0</b>	100.5 100
EKB 2.5/8 <b>1983.0</b>	77.1 100	EKB 4/8 DS <b>1837.0</b>	89.3 100	EKB 4/8 <b>1995.0</b>	89.3 100	EKB 10/8 DS <b>1849.0</b>	115.2 100	EKB 10/8 <b>1757.0</b>	115.2 100
EKB 2.5/9 <b>1984.0</b>	87.2 100	EKB 4/9 DS <b>1838.0</b>	100.9 100	EKB 4/9 <b>1996.0</b>	100.9 100	EKB 10/9 DS <b>1850.0</b>	129.9 100	EKB 10/9 <b>1758.0</b>	129.9 100
EKB 2.5/10 <b>1985.0</b>	97.3 100	EKB 4/10 DS <b>1839.0</b>	112.5 100	EKB 4/10 <b>1997.0</b>	112.5 100	EKB 10/10 DS <b>1851.0</b>	144.6 100	EKB 10/10 <b>1759.0</b>	144.6 100
EKB 2.5/11 <b>1986.0</b>	107.4 100	EKB 4/11 DS <b>1840.0</b>	124.1 100	EKB 4/11 <b>1998.0</b>	124.1 100	EKB 10/11 DS <b>1852.0</b>	159.3 100	EKB 10/11 <b>1760.0</b>	159.3 100
EKB 2.5/12 <b>1987.0</b>	117.5 100	EKB 4/12 DS <b>1841.0</b>	135.7 100	EKB 4/12 <b>1999.0</b>	135.7 100	EKB 10/12 DS <b>1853.0</b>	174 100	EKB 10/12 <b>1761.0</b>	174 100
<b>IEC</b>		<b>IEC</b>		<b>IEC</b>		<b>IEC</b>		<b>IEC</b>	
450		450		450		450		450	
24		32		32		57		57	
2.5		4		4		10		10	
0.5 I Slotted M3		0.8   Slotted M3.5		0.8   Slotted M3.5		1.2   Slotted M4		1.2   Slotted M4	
1.5 - 4		1.5 - 6		1.5 - 6		2.5 - 16		2.5 - 16	
1.5 - 2.5		1.5 - 4		1.5 - 4		2.5 - 10		2.5 - 10	
0.75 - 2.5		1.5 - 4		1.5 - 4		1.5 - 10		1.5 - 10	
PA 6.6		PA 6.6		PA 6.6		PA 6.6		PA 6.6	
V2		V2		V2		V2		V2	
-40°C to +100°C		-40°C to +100°C		-40°C to +100°C		-40°C to +100°C		-40°C to +100°C	
<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>	
SDB 0.6x3.5 <b>1086.0</b>	422 1	SDB 0.6x3.5 <b>1086.0</b>	422 1	SDB 0.8x4.0 <b>1087.0</b>	422 1	SDB 0.8x4.0 <b>1087.0</b>	422 1	SDB 0.8x4.0 <b>1087.0</b>	422 1

**Cuttable terminal strips with foot EKBF**

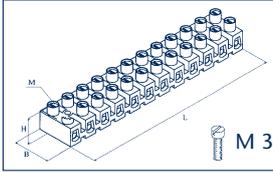
**Screw connection system**



The EKBF and EKBBS variants cover a rated cross-section range from 2.5 to 4.0 mm<sup>2</sup>. They are available from 1 to 12 poles. An attachment hole is located between each of the poles which guarantees proper mechanical alignment during installation.

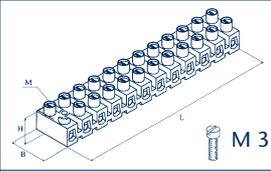
**EKBF:** The housings have a base-foot that is raised 8 mm in order to increase the creepage distance between the overlay and the terminal body. Thus these terminals can also be used in household electrical appliances and lamps without insulated bases (VDE 0700/0711).  
Colour: transparent/white

**EKBF 2.5/...DS**



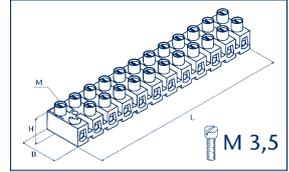
Cuttable terminal 2.5 mm<sup>2</sup> with foot and wire protection

**EKBF 2.5/...**



Cuttable terminal 2.5 mm<sup>2</sup> with base without wire protection

**EKBF 4/...DS**



Cuttable terminal 4 mm<sup>2</sup> with foot and wire protection

**Connection type**

Dimensions (L x W x H), mm

**Screw connection**

117.5\* x 20 x 17

**Screw connection**

117.5\* x 20 x 17

**Screw connection**

136.7\* x 23 x 19

**Type**

Type/colour

**Cat. no.**

**Length, mm Qty.**

EKBF 2.5/1 DS			
<b>1854.0</b>	6.4	100	
EKBF 2.5/2 DS			
<b>1855.0</b>	16.5	100	
EKBF 2.5/3 DS			
<b>1856.0</b>	26.6	100	
EKBF 2.5/4 DS			
<b>1857.0</b>	36.7	100	
EKBF 2.5/5 DS			
<b>1858.0</b>	46.8	100	
EKBF 2.5/6 DS			
<b>1859.0</b>	56.9	100	
EKBF 2.5/7 DS			
<b>1860.0</b>	67	100	
EKBF 2.5/8 DS			
<b>1861.0</b>	77.1	100	
EKBF 2.5/9 DS			
<b>1862.0</b>	87.5	100	
EKBF 2.5/10 DS			
<b>1863.0</b>	97.3	100	
EKBF 2.5/11 DS			
<b>1864.0</b>	107.4	100	
EKBF 2.5/12 DS			
<b>1865.0</b>	117.5	100	

**Length, mm Qty.**

EKBF 2.5/1			
<b>1762.0</b>	6.4	100	
EKBF 2.5/2			
<b>1763.0</b>	16.5	100	
EKBF 2.5/3			
<b>1764.0</b>	26.6	100	
EKBF 2.5/4			
<b>1765.0</b>	36.7	100	
EKBF 2.5/5			
<b>1766.0</b>	46.8	100	
EKBF 2.5/6			
<b>1767.0</b>	56.9	100	
EKBF 2.5/7			
<b>1768.0</b>	67	100	
EKBF 2.5/8			
<b>1769.0</b>	77.1	100	
EKBF 2.5/9			
<b>1770.0</b>	87.5	100	
EKBF 2.5/10			
<b>1771.0</b>	97.3	100	
EKBF 2.5/11			
<b>1772.0</b>	107.4	100	
EKBF 2.5/12			
<b>1773.0</b>	117.5	100	

**Length, mm Qty.**

EKBF 4/1 DS			
<b>1866.0</b>	8.1	100	
EKBF 4/2 DS			
<b>1867.0</b>	19.7	100	
EKBF 4/3 DS			
<b>1868.0</b>	31.3	100	
EKBF 4/4 DS			
<b>1869.0</b>	42.9	100	
EKBF 4/5 DS			
<b>1870.0</b>	54.5	100	
EKBF 4/6 DS			
<b>1871.0</b>	66.1	100	
EKBF 4/7 DS			
<b>1872.0</b>	77.7	100	
EKBF 4/8 DS			
<b>1873.0</b>	89.3	100	
EKBF 4/9 DS			
<b>1874.0</b>	100.9	100	
EKBF 4/10 DS			
<b>1875.0</b>	112.5	100	
EKBF 4/11 DS			
<b>1876.0</b>	124.1	100	
EKBF 4/12 DS			
<b>1877.0</b>	135.7	100	

**Ratings**

Rated voltage, V

Rated current, A

Rated cross-section, mm<sup>2</sup>

Torque, Nm | Screw

**IEC**

450

24

2.5

0.5 | Slotted M3

**IEC**

450

24

2.5

0.5 | Slotted M3

**IEC**

450

32

4

0.8 | Slotted M3.5

**Connection data**

Single-core (solid), mm<sup>2</sup> | AWG

Finely stranded, mm<sup>2</sup>

Finely stranded (w/ferrules acc. to DIN 46 228/1), mm<sup>2</sup>

1.5 - 4

1.5 - 2.5

0.75 - 2.5

1.5 - 4

1.5 - 2.5

0.75 - 2.5

1.5 - 6

1.5 - 4

1.5 - 4

**Material of insulated housing**

Material of insulated housing

Flamm. class acc. to UL 94

Temperature range

PA 6.6

V2

-40°C to +100°C

PA 6.6

V2

-40°C to +100°C

PA 6.6

V2

-40°C to +100°C

**Accessories**

Screwdriver SDB

**Cat. no.**

**Page Qty.**

SDB 0.6x3.5

**1086.0**

422 1

**Page Qty.**

SDB 0.6x3.5

**1086.0**

422 1

**Page Qty.**

SDB 0.6x3.5

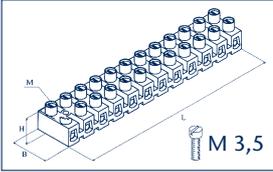
**1086.0**

422 1

\*= The length of the 12-pole version is specified here. Additional pole-dependent lengths are specified next to the catalogue numbers.

## Plug terminals with horizontal insertion EKBS

### EKBF 4/...



Cuttable terminal 4 mm<sup>2</sup> with base without wire protection

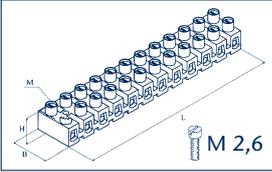
### Screw connection system

Plug and socket (male and female) are delivered in a set.

**EKBS:** These variants are terminal sockets and terminal plugs – they are suitable for applications requiring an easy pluggable connect/disconnect of the circuit. The key benefits are speed, safety and clarity.

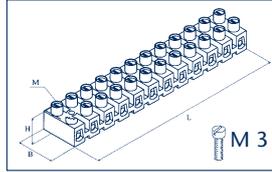


### EKBBS 1.5/...



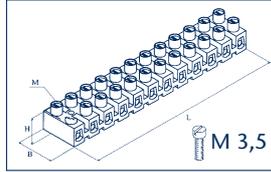
Plug terminals 1.5 mm<sup>2</sup> without wire protection, transparent

### EKBBS 2.5/...DS



Plug terminals 2.5mm<sup>2</sup> without wire protection, transparent

### EKBBS 4/...



Plug terminals 4.0 mm<sup>2</sup> without wire protection, transparent

### Screw connection

136.7\* x 23 x 19

### Connection type

Dimensions (L x W x H), mm

### Screw connection

95.4\* x 18 x 14

### Screw connection

117.5\* x 20 x 17

### Screw connection

135.7\* x 23 x 19

Length, mm	Qty.	Type
EKBF 4/1		Type/colour
<b>1774.0</b>	8.1	<b>Cat. no.</b>
EKBF 4/2		Type/colour
<b>1775.0</b>	19.7	<b>Cat. no.</b>
EKBF 4/3		Type/colour
<b>1776.0</b>	31.3	<b>Cat. no.</b>
EKBF 4/4		Type/colour
<b>1777.0</b>	42.9	<b>Cat. no.</b>
EKBF 4/5		Type/colour
<b>1778.0</b>	54.5	<b>Cat. no.</b>
EKBF 4/6		Type/colour
<b>1779.0</b>	66.1	<b>Cat. no.</b>
EKBF 4/7		Type/colour
<b>1780.0</b>	77.7	<b>Cat. no.</b>
EKBF 4/8		Type/colour
<b>1781.0</b>	89.3	<b>Cat. no.</b>
EKBF 4/9		Type/colour
<b>1782.0</b>	100.9	<b>Cat. no.</b>
EKBF 4/10		Type/colour
<b>1783.0</b>	112.5	<b>Cat. no.</b>
EKBF 4/11		Type/colour
<b>1784.0</b>	124.1	<b>Cat. no.</b>
EKBF 4/12		Type/colour
<b>1785.0</b>	135.7	<b>Cat. no.</b>

Length, mm	Qty.	Type
EKBBS 1,5/1		Type/colour
<b>17050.0</b>	5.7	<b>Cat. no.</b>
EKBBS 1,5/2		Type/colour
<b>17051.0</b>	13.9	<b>Cat. no.</b>
EKBBS 1,5/3		Type/colour
<b>17052.0</b>	22.1	<b>Cat. no.</b>
EKBBS 1,5/4		Type/colour
<b>17053.0</b>	30.3	<b>Cat. no.</b>
EKBBS 1,5/5		Type/colour
<b>17054.0</b>	38.5	<b>Cat. no.</b>
EKBBS 1,5/6		Type/colour
<b>17055.0</b>	46.7	<b>Cat. no.</b>
EKBBS 1,5/7		Type/colour
<b>17056.0</b>	54.9	<b>Cat. no.</b>
EKBBS 1,5/8		Type/colour
<b>17057.0</b>	63.1	<b>Cat. no.</b>
EKBBS 1,5/9		Type/colour
<b>17058.0</b>	71.3	<b>Cat. no.</b>
EKBBS 1,5/10		Type/colour
<b>17059.0</b>	79.5	<b>Cat. no.</b>
EKBBS 1,5/11		Type/colour
<b>17060.0</b>	87.7	<b>Cat. no.</b>
EKBBS 1,5/12		Type/colour
<b>17061.0</b>	95.4	<b>Cat. no.</b>

Length, mm	Qty.	Type
EKBBS 2.5/1		Type/colour
<b>17062.0</b>	6.4	<b>Cat. no.</b>
EKBBS 2.5/2		Type/colour
<b>17063.0</b>	16.5	<b>Cat. no.</b>
EKBBS 2.5/3		Type/colour
<b>17064.0</b>	26.6	<b>Cat. no.</b>
EKBBS 2.5/4		Type/colour
<b>17065.0</b>	36.7	<b>Cat. no.</b>
EKBBS 2.5/5		Type/colour
<b>17066.0</b>	46.8	<b>Cat. no.</b>
EKBBS 2.5/6		Type/colour
<b>17067.0</b>	56.9	<b>Cat. no.</b>
EKBBS 2.5/7		Type/colour
<b>17068.0</b>	67	<b>Cat. no.</b>
EKBBS 2.5/8		Type/colour
<b>17069.0</b>	77.1	<b>Cat. no.</b>
EKBBS 2.5/9		Type/colour
<b>17070.0</b>	87.2	<b>Cat. no.</b>
EKBBS 2.5/10		Type/colour
<b>17071.0</b>	97.3	<b>Cat. no.</b>
EKBBS 2.5/11		Type/colour
<b>17072.0</b>	167.4	<b>Cat. no.</b>
EKBBS 2.5/12		Type/colour
<b>17073.0</b>	117.5	<b>Cat. no.</b>

Length, mm	Qty.	Type
EKBBS 4/1		Type/colour
<b>17074.0</b>	8.1	<b>Cat. no.</b>
EKBBS 4/2		Type/colour
<b>17075.0</b>	19.7	<b>Cat. no.</b>
EKBBS 4/3		Type/colour
<b>17076.0</b>	31.3	<b>Cat. no.</b>
EKBBS 4/4		Type/colour
<b>17077.0</b>	42.9	<b>Cat. no.</b>
EKBBS 4/5		Type/colour
<b>17078.0</b>	54.5	<b>Cat. no.</b>
EKBBS 4/6		Type/colour
<b>17079.0</b>	66.1	<b>Cat. no.</b>
EKBBS 4/7		Type/colour
<b>17080.0</b>	77.7	<b>Cat. no.</b>
EKBBS 4/8		Type/colour
<b>17081.0</b>	89.3	<b>Cat. no.</b>
EKBBS 4/9		Type/colour
<b>17082.0</b>	100.9	<b>Cat. no.</b>
EKBBS 4/10		Type/colour
<b>17083.0</b>	112.5	<b>Cat. no.</b>
EKBBS 4/11		Type/colour
<b>17084.0</b>	124.1	<b>Cat. no.</b>
EKBBS 4/12		Type/colour
<b>17085.0</b>	135.7	<b>Cat. no.</b>

### IEC

450

32

4

0.8 | Slotted M3.5

1.5 - 6

1.5 - 4

1.5 - 4

### Ratings

Rated voltage, V

Rated current, A

Rated cross-section, mm<sup>2</sup>

Torque, Nm | Screw

### Connection data

Single wire (solid), mm<sup>2</sup>

Finely stranded, mm<sup>2</sup>

Stranded (with ferrule, acc. to DIN 46 228/1)mm<sup>2</sup>

### IEC

450

17,5

1,5

0.4 | Slotted M2.6

0.75 - 2.5

0.75 - 1.5

0,5 - 1.5

### IEC

450

24

2.5

0.5 | Slotted M3

1.5 - 4

1.5 - 2.5

0.75 - 2.5

### IEC

450

32

4

0.8 | Slotted M3.5

1.5 - 6

1.5 - 4

1.5 - 4

PA 6.6

V2

-40°C to +100°C

### Material of insulated housing

Material of insulated housing

Flamm. class acc. to UL 94

Temperature range

PA 6.6

V2

-40°C to +100°C

PA 6.6

V2

-40°C to +100°C

PA 6.6

V2

-40°C to +100°C

### Page Qty.

SDB 0.6x3.5

**1086.0**

422

1

### Accessories

Screwdriver SDB

**Cat. no.**

### Page Qty.

SDB 0.6x3.5

**1086.0**

422

1

### Page Qty.

SDB 0.6x3.5

**1086.0**

422

1

### Page Qty.

SDB 0.6x3.5

**1086.0**

422

1

## Ceramic terminal blocks KKB

### Ceramic terminal blocks KKB



Ceramic terminals are suited for applications that require extreme resistance to heat. In addition to heat resistance, these terminals are resistant to corrosion, fire-proof, and resistant to chemicals. They have a continuous-use temperature of up to 350°C. The variants specified have a total rated cross-section range from 2.5 to 10 mm<sup>2</sup> and are available with 2 or 3 poles. An attachment hole is located between each of the poles which guarantees proper mechanical alignment during installation.

The terminal housing is white and made from high-quality enamelled porcelain.

**Features:**

- Material: KER DIN 40685 porcelain, enamelled
- colour: white
- Terminal body: Nickel-plated brass
- Screw: Galvanized steel, passivated BU

### Connection type

Dimensions (L x W x H),mm, 2 poles | 3 poles

### Type

Type/colour

**Cat. no.**

### Ratings

Rated voltage, V

Rated current, A

Rated cross-section, mm<sup>2</sup>

Torque, Nm | Screw

### Connection data

Single wire (solid), mm<sup>2</sup>

Finely stranded, mm<sup>2</sup>

Finely stranded (w/ferrules acc. to DIN 46 228/1), mm<sup>2</sup>

### Material of insulated housing

Material of insulated housing

Flamm. class acc. to UL 94

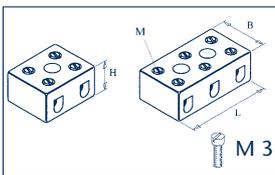
Temperature range

### Accessories

Screwdriver SDB

**Cat. no.**

### KKB 2.5/...



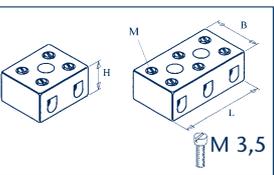
Terminal block 2.5 mm<sup>2</sup> ceramic, without wire protection

### Screw connection

20 x 18 x 15 x | 33 x 18 x 15

	Length, mm	Qty.
KKB 2.5/2 WH		
<b>1800.7</b>	20	100
KKB 2.5/3 WH		
<b>1801.7</b>	33	100

### KKB 4/...



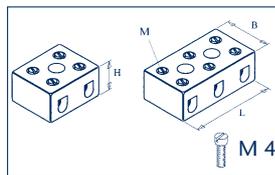
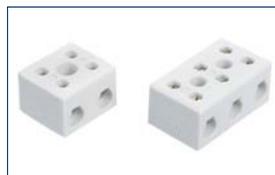
Terminal block 4 mm<sup>2</sup> ceramic, without wire protection

### Screw connection

24 x 22 x 20 | 39 x 23 x 20

	Length, mm	Qty.
KKB 4/2 WH		
<b>1802.7</b>	24	100
KKB 4/3 WH		
<b>1803.7</b>	39	50

### KKB 10/...



Terminal block 10 mm<sup>2</sup> ceramic, without wire protection

### Screw connection

34 x 30 x 23 | 50 x 30 x 23

	Length, mm	Qty.
KKB 10/2 WH		
<b>1804.7</b>	34	50
KKB 10/3 WH		
<b>1805.7</b>	52	40

	IEC
Rated voltage, V	450
Rated current, A	24
Rated cross-section, mm <sup>2</sup>	2.5
Torque, Nm   Screw	0.5   Slotted M3

	IEC
Rated voltage, V	450
Rated current, A	32
Rated cross-section, mm <sup>2</sup>	4
Torque, Nm   Screw	0.8   Slotted M3.5

	IEC
Rated voltage, V	450
Rated current, A	57
Rated cross-section, mm <sup>2</sup>	10
Torque, Nm   Screw	1.2   Slotted M4

Single wire (solid), mm <sup>2</sup>	1.5 - 4
Finely stranded, mm <sup>2</sup>	1.5 - 2.5
Finely stranded (w/ferrules acc. to DIN 46 228/1), mm <sup>2</sup>	0.75 - 2.5

Single wire (solid), mm <sup>2</sup>	1.5 - 6
Finely stranded, mm <sup>2</sup>	1.5 - 4
Finely stranded (w/ferrules acc. to DIN 46 228/1), mm <sup>2</sup>	0.75 - 4

Single wire (solid), mm <sup>2</sup>	2.5 - 16
Finely stranded, mm <sup>2</sup>	2.5 - 10
Finely stranded (w/ferrules acc. to DIN 46 228/1), mm <sup>2</sup>	1.5 - 10

Material of insulated housing	Enamelled porcelain
Flamm. class acc. to UL 94	-
Temperature range	-40°C to +350°C

Material of insulated housing	Enamelled porcelain
Flamm. class acc. to UL 94	-
Temperature range	-40°C to +350°C

Material of insulated housing	Enamelled porcelain
Flamm. class acc. to UL 94	-
Temperature range	-40°C to +350°C

	Page	Qty.
Screwdriver SDB		
<b>1086.0</b>	422	1

	Page	Qty.
Screwdriver SDB		
<b>1086.0</b>	422	1

	Page	Qty.
Screwdriver SDB		
<b>1087.0</b>	422	1



**Shield-connection clip SAB | SSAB**

In the field of industrial process engineering, a high degree of interference immunity is required of electrical equipment. In the fields of measurement, regulation and control engineering, this is a significant contributor to the viability of industrial systems. When constructing low-interference systems, both the cable shielding and the associated shielded ground are of great significance. The point where the cable shielding connects to the housing ground is a critical point. The connection should be low-ohm, and should also feature minimal inductive resistance. You should be certain that this connection can be established in a practical, simple and quick manner. **CONTA-CLIP's SAB/SSAB** clip accomplishes all this with the help of its outstanding feature set.



**SSAB**



**SAB**



**SAB.../D**



**SAB.../MF/35**



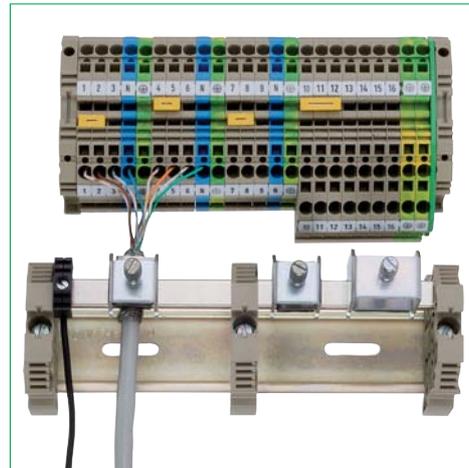
**SAB.../F**

## Shield-connection clip SAB | SSAB

### Overview of the variants

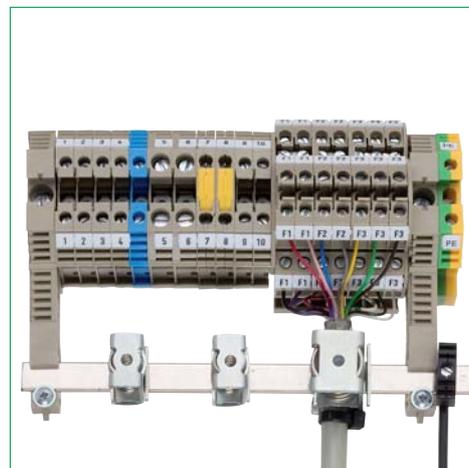
#### Busbar mounting with the SSAB

The **SSAB** can be mounted on a busbar. After wiring the terminal block, the shield-connection clip is mounted by simply swivelling in and tightening the knurled thumb screw. This makes the **SSAB** screw-shield-connection clip very convenient to wire. Depending on the length of the terminal blocks, two or more **SH/SAB** busbar supports are used. These mechanically connect the front busbar with the DIN rail (support). **SH1** busbar supports are used where a shield-connection system must be mounted directly onto a panel rather than a DIN rail. The 10 x 3 busbars can be easily and quickly snapped on to these supports. In both cases, the contact with the earth or ground potential can be established with a **ZB** clamping yoke.



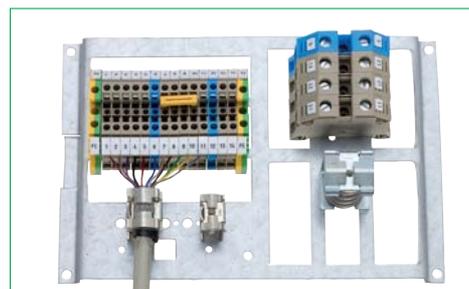
#### Busbar mounting with the SAB

The **SAB** can be mounted on a busbar. After connecting the wiring, the shield-connection clip is mounted by simply swivelling in the **SAB** clip onto the busbar. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact. This makes the **SAB** shield-connection clip very convenient to wire. Depending on the length of the terminal blocks, two or more **SH/SAB** busbar supports are used. These mechanically connect the front busbar with the DIN rail (support). **SH1** busbar supports are used where a shield-connection system must be mounted directly onto a panel rather than a DIN rail. The 10 x 3 busbars can be easily and quickly snapped on to these supports. In both cases, the contact with the earth or ground potential can be established with a **ZB** clamping yoke.



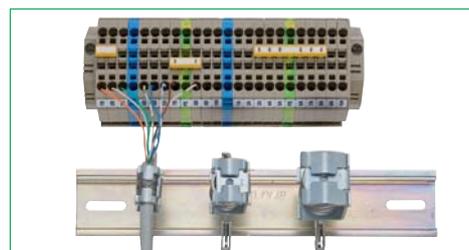
#### Direct mounting SAB.../D

The **SAB.../D** offers the possibility of direct installation. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact. The **SAB.../D** can be installed with an **M4** screw (included in delivery) directly to the mounting plate. The **SAB 8/D** M5 shield-connection clip comes with a special feature; it is equipped with a self-cutting M5 SW3 metal screw. As a result, less time is required to mount the clip on the mounting plate, since you only need to drill one 4.2-mm hole through the plate. The hole threads will then be cut into the plate by the screw.



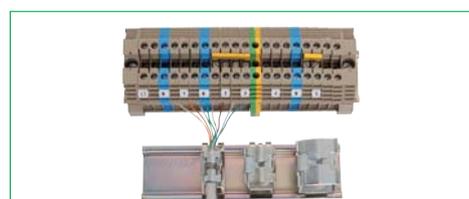
#### DIN rail installation SAB.../F

The **SAB.../F** can be mounted on a DIN rail. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact. The **SAB.../F** can be mounted directly to the **TS 35** rail using a mounting screw with a clamping foot.



#### DIN rail installation SAB.../MF/35

The **SAB.../MF/35** can be installed on a DIN rail. The **SAB.../MF/35** is snapped on directly via the internal-spring **MF/35** foot without the need for tools. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the DIN rail.



## Shield-connection clip SSAB

**Screw connection system**

- Screw-on clip for simple retrofitting
- Knurled thumb screw, so no tools required
- Simple handling

The **SSAB** screw-shield-connection clip is suitable for standard cable shielding. It enables EMC-compliant wiring with its large surface area. It also has low-impedance and low-ohm contact junctions. It is ideal for wires with diameters ranging from 2 to 35 mm. The contacts can be established without the need for any special tool.

Simple mounting – large shielding surface – secure contact



Connection type	Dimensions (L x W x H), mm
Type	Type
Cat. no.	
Technical data	Connection in compliance with standard
Material	
Connection data	Min. torque, Nm
	Max. torque, Nm
	Cable diameter, mm
	Screw
	Drill hole diameter, mm
Accessories	
SH overlay block	
Cat. no.	
Busbar support SH SAB BG	
Cat. no.	
Busbar Ssch/MS	
Cat. no.	
Busbar Ssch/CU	
Cat. no.	
End stop ES	
Cat. no.	
ZB without cap	
Cat. no.	
ZB cap GNYE	
Cat. no.	
Mounting screw BS, for the SH 1 BG	
Cat. no.	
Mounting screw BS, for 2 x SH 1 BG	
Cat. no.	

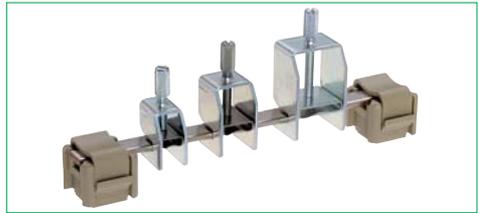
Screw connection	19.5 x 9 x 46.8
Qty.	
SSAB 5	10
Page	
Qty.	
SH 1 BG	240
2318.2	1
SH SAB BG	241
1530.2	1
Ssch 10x3 MS	83
2128.0	1m
Ssch 10x3 CU	83
2129.0	1m
ES 35/K/ST BG	274
2828.0	50
ZB 4	90
2138.0	50
ZB 4/K GNYE	90
2483.1	50
BS M 4x8	232
2262.0	20
BS M 4x30	291
2123.0	50

Screw connection	19.5 x 12 x 48.7
Qty.	
SSAB 8	10
Page	
Qty.	
SH 1 BG	240
2318.2	1
SH SAB BG BG	241
1530.2	1
Ssch 10x3 MS	83
2128.0	1m
Ssch 10x3 CU	83
2129.0	1m
ES 35/K/ST BG	274
2828.0	50
ZB 4	90
2138.0	50
ZB 4/K GNYE	90
2483.1	50
BS M 4x8	232
2262.0	20
BS M 4x30	291
2123.0	50

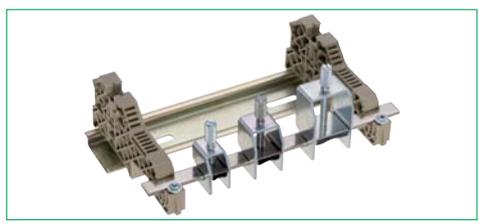
Screw connection	19.5 x 17 x 59.3
Qty.	
SSAB 14	10
Page	
Qty.	
SH 1 BG	240
2318.2	1
SH SAB BG	241
1530.2	1
Ssch 10x3 MS	83
2128.0	1m
Ssch 10x3 CU	83
2129.0	1m
ES 35/K/ST BG	274
2828.0	50
ZB 4	90
2138.0	50
ZB 4/K GNYE	90
2483.1	50
BS M 4x8	232
2262.0	20
BS M 4x30	291
2123.0	50

**Additional accessories**

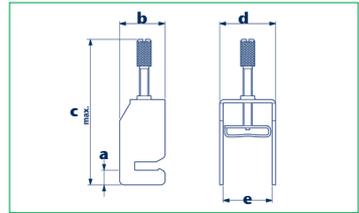
**For mounting on busbar**



An SSAB application with the SH1



An SSAB application with SH SAB BG



Type	a	b	c	d	e
SSAB 5	6.5 mm	19.5 mm	46.8 mm	9.0 mm	6.0 mm
SSAB 8	6.5 mm	19.5 mm	48.7 mm	12.0 mm	9.0 mm
SSAB 14	6.5 mm	19.5 mm	59.3 mm	17.0 mm	14.0 mm
SSAB 20	6.5 mm	19.5 mm	75.0 mm	24.0 mm	21.0 mm
SSAB 28	6.5 mm	20.0 mm	92.7 mm	32.0 mm	28.0 mm
SSAB 35	6.5 mm	20.0 mm	106.5 mm	40.0 mm	36.0 mm



## Shield-connection clip SAB | SAB...D

- Quick snap-on or mounting of the shield-connection clip
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Simple handling

The **SAB** shield connection clip is suitable for standard cable shielding. It enables EMC-compliant wiring with its large surface area. It also has low-impedance and low-ohm contact junctions. It is ideal for wires with diameters ranging from 3 to 20 mm. The contacts can be established without the need for any special tool.

Simple mounting – large shielding surface – secure contact

### Connection type

Dimensions (L x W x H), mm  
High base, with TS 35 x 7.5 mm

### Type

Type/colour  
**Cat. no.**  
Type/colour SAB with self-tapping screw  
**Cat. no.**

### Technical data

Connection in compliance with standard  
Material

### Connection data

Min. torque, Nm  
Max. torque, Nm  
Cable diameter, mm  
Screw  
Drill hole diameter, mm

### Accessories

SH overlay block  
**Cat. no.**  
Busbar support SH SAB BG  
**Cat. no.**  
Busbar Ssch/MS  
**Cat. no.**  
Busbar Ssch/CU  
**Cat. no.**  
End stop ES  
**Cat. no.**  
ZB without cap  
**Cat. no.**  
ZB cap GNYE  
**Cat. no.**  
Mounting screw BS, for the SH 1 BG  
**Cat. no.**  
Mounting screw BS, for 2 x SH 1 BG  
**Cat. no.**

### SAB 8



Shield-connection clip  
Spring force

### Spring force

18.5 x 13 x 26.5

### SAB 13.5



Shield-connection clip  
Spring force

### Spring force

22 x 19.5 x 32.5

### SAB 20



Shield-connection clip  
Spring force

### Spring force

27 x 24.5 x 40.5

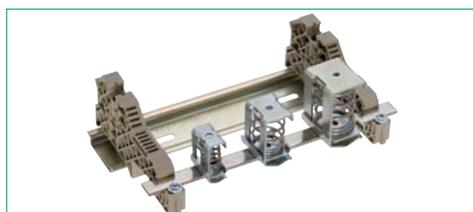
Type	Qty.	Type	Qty.	Type	Qty.
SAB 8	10	SAB 13.5	10	SAB 20	10
<b>1527.0</b>		<b>1528.0</b>		<b>1529.0</b>	
Page	Qty.	Page	Qty.	Page	Qty.
SH 1 BG <b>2318.2</b>	240	1	SH 1 BG <b>2318.2</b>	240	1
SH SAB BG <b>1530.2</b>	241	1	SH SAB BG <b>1530.2</b>	241	1
Ssch 10x3 MS <b>2128.0</b>	83	1m	Ssch 10x3 MS <b>2128.0</b>	83	1m
Ssch 10x3 CU <b>2129.0</b>	83	1m	Ssch 10x3 CU <b>2129.0</b>	83	1m
ES 35/K/ST BG <b>2828.0</b>	274	50	ES 35/K/ST BG <b>2828.0</b>	274	50
ZB 4 <b>2138.0</b>	90	50	ZB 4 <b>2138.0</b>	90	50
ZB 4/K GNYE <b>2483.1</b>	90	50	ZB 4/K GNYE <b>2483.1</b>	90	50
BS M 4x8 <b>2262.0</b>	232	20	BS M 4x8 <b>2262.0</b>	232	20
BS M 4x30 <b>2123.0</b>	291	50	BS M 4x30 <b>2123.0</b>	291	50

### Additional accessories

### For mounting on busbar

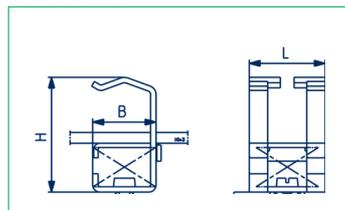


An SAB application with the SH1



An SAB application with SH SAB BG

### Dimensions



Type	L	B	H	Foot / screw
<b>SAB 8</b>	18.5 mm	13.0 mm	26.5 mm	
<b>SAB 13.5</b>	22.0 mm	19.5 mm	32.5 mm	
<b>SAB 20</b>	27.0 mm	24.5 mm	40.5 mm	
<b>SAB 8/D</b>	18.5 mm	13.0 mm	26.5 mm	M4 / M5
<b>SAB 13,5/D</b>	22.0 mm	19.5 mm	32.5 mm	M4
<b>SAB 20/D</b>	27.0 mm	24.5 mm	40.5 mm	M4

SAB 8/D		SAB 13.5/D		SAB 20/D			
							
Shield-connection clip Spring force		Shield-connection clip Spring force		Shield-connection clip Spring force			
<b>Spring force</b> 18.5 x 13 x 26.5		<b>Spring force</b> 22 x 19.5 x 32.5		<b>Spring force</b> 27 x 24.5 x 40.5			
<b>Qty.</b>		<b>Qty.</b>		<b>Qty.</b>			
SAB 8/D <b>1549.0</b> 10		SAB 13,5/D <b>1550.0</b> 10		SAB 20/D <b>1551.0</b> 10			
SAB 8/D/M5 <b>1526.0</b> 10							
IEC/EN Steel		IEC/EN Steel		IEC/EN Steel			
-		-		-			
3 – 8		4 – 13,5		10 – 20			
M4 / M5		M4		M4			
4.2		4.2		4.2			
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
SH 1 BG <b>2318.2</b> 240 1	SH 1 BG <b>2318.2</b> 240 1	SH 1 BG <b>2318.2</b> 240 1	SH SAB BG <b>1530.2</b> 241 1	SH SAB BG <b>1530.2</b> 241 1	SH SAB BG <b>1530.2</b> 241 1		
SH SAB BG <b>1530.2</b> 241 1	Ssch 10x3 MS <b>2128.0</b> 83 1m	Ssch 10x3 MS <b>2128.0</b> 83 1m	Ssch 10x3 MS <b>2128.0</b> 83 1m	Ssch 10x3 MS <b>2128.0</b> 83 1m	Ssch 10x3 MS <b>2128.0</b> 83 1m		
Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m		
ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ZB 4 <b>2138.0</b> 90 50	ZB 4 <b>2138.0</b> 90 50	ZB 4 <b>2138.0</b> 90 50		
ZB 4 <b>2138.0</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50		
ZB 4/K GNYE <b>2483.1</b> 90 50	BS M 4x8 <b>2262.0</b> 232 20	BS M 4x8 <b>2262.0</b> 232 20	BS M 4x8 <b>2262.0</b> 232 20	BS M 4x8 <b>2262.0</b> 232 20	BS M 4x8 <b>2262.0</b> 232 20		
BS M 4x8 <b>2262.0</b> 232 20	BS M 4x30 <b>2123.0</b> 291 50	BS M 4x30 <b>2123.0</b> 291 50	BS M 4x30 <b>2123.0</b> 291 50	BS M 4x30 <b>2123.0</b> 291 50	BS M 4x30 <b>2123.0</b> 291 50		
BS M 4x30 <b>2123.0</b> 291 50							

**Direct mounting**



SAB.../D

## Shield-connection clip SAB

- Quick snap-on or mounting of the shield-connection clip
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Simple handling

The **SAB** shield connection clip is suitable for standard cable shielding. It enables EMC-compliant wiring with its large surface area. It also has low-impedance and low-ohm contact junctions. It is ideal for wires with diameters ranging from 3 to 20 mm. The contacts can be established without the need for any special tool.

### Connection type

Dimensions (L x W x H), mm  
High base, with TS 35 x 7.5 mm

### Type

Type/colour  
**Cat. no.**

Type/colour  
**Cat. no.**

### Technical data

Connection in compliance with standard

Material

### Connection data

Min. torque, Nm

Max. torque, Nm

Cable diameter, mm

Screw

Drill hole diameter, mm

### Accessories

SH overlay block

**Cat. no.**  
Busbar support SH SAB BG  
**Cat. no.**

Busbar Ssch/MS

**Cat. no.**  
Busbar Ssch/CU  
**Cat. no.**

End stop ES

**Cat. no.**  
ZB without cap  
**Cat. no.**

ZB cap GNYE  
**Cat. no.**

Mounting screw BS, for the SH 1 BG  
**Cat. no.**

Mounting screw BS, for 2 x SH 1 BG  
**Cat. no.**

### SAB 8/F



Shield-connection clip  
Spring force

### Spring force

18.5 x 13 x 26.5  
28

Type	Qty.
SAB 8/F	10
<b>1571.0</b>	

### SAB 13.5/F



Shield-connection clip  
Spring force

### Spring force

22 x 19.5 x 32.5  
28

Type	Qty.
SAB 13,5/F	10
<b>1572.0</b>	

### SAB 20/F



Shield-connection clip  
Spring force

### Spring force

27 x 24.5 x 40.5  
28

Type	Qty.
SAB 20/F	10
<b>1573.0</b>	

IEC/EN
Steel

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-

3 – 8
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### Accessories

	Page	Qty.
SH 1 BG	240	1
<b>2318.2</b>		

SH SAB BG	241	1
<b>1530.2</b>		

Ssch 10x3 MS	83	1m
<b>2128.0</b>		

Ssch 10x3 CU	83	1m
<b>2129.0</b>		

ES 35/K/ST BG	274	50
<b>2828.0</b>		

ZB 4	90	50
<b>2138.0</b>		

ZB 4/K GNYE	90	50
<b>2483.1</b>		

BS M 4x8	232	20
<b>2262.0</b>		

BS M 4x30	291	50
<b>2123.0</b>		

IEC/EN
Steel

-
-

4 – 13.5
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-
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### Accessories

	Page	Qty.
SH 1 BG	240	1
<b>2318.2</b>		

SH SAB BG	241	1
<b>1530.2</b>		

Ssch 10x3 MS	83	1m
<b>2128.0</b>		

Ssch 10x3 CU	83	1m
<b>2129.0</b>		

ES 35/K/ST BG	274	50
<b>2828.0</b>		

ZB 4	90	50
<b>2138.0</b>		

ZB 4/K GNYE	90	50
<b>2483.1</b>		

BS M 4x8	232	20
<b>2262.0</b>		

BS M 4x30	291	50
<b>2123.0</b>		

IEC/EN
Steel

-
-

10 – 20
---------

-
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### Accessories

	Page	Qty.
SH 1 BG	240	1
<b>2318.2</b>		

SH SAB BG	241	1
<b>1530.2</b>		

Ssch 10x3 MS	83	1m
<b>2128.0</b>		

Ssch 10x3 CU	83	1m
<b>2129.0</b>		

ES 35/K/ST BG	274	50
<b>2828.0</b>		

ZB 4	90	50
<b>2138.0</b>		

ZB 4/K GNYE	90	50
<b>2483.1</b>		

BS M 4x8	232	20
<b>2262.0</b>		

BS M 4x30	291	50
<b>2123.0</b>		

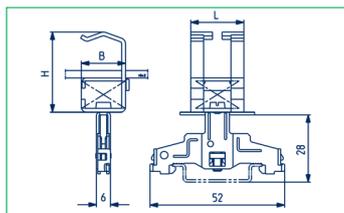
### Additional accessories

## Mounting on DIN rail



SAB.../F

### Dimensions



Type	L	B	H	Foot / screw
<b>SAB 8/F</b>	18.5 mm	3.0 mm	26.5 mm	28.0 mm
<b>SAB 13,5/F</b>	22.0 mm	19.5 mm	32.5 mm	28.0 mm
<b>SAB 20/F</b>	27.0 mm	24.5 mm	40.5 mm	28.0 mm

SAB 8/MF/35	SAB 13.5/MF/35	SAB 20/MF/35	MF/35	
				
Shield-connection clip Spring force	Shield-connection clip Spring force	Shield-connection clip Spring force	Mounting foot TS 35	
<b>Spring force</b> 18.5 x 13 x 26.5 9.2	<b>Spring force</b> 22 x 19.5 x 32.5 9.2	<b>Spring force</b> 27 x 24.5 x 40.5 9.2	<b>Spring force</b> 50.5 x 14.2 x 7.3 9.2	
<b>Qty.</b> SAB 8/MF/35 <b>17038.0</b> 10	<b>Qty.</b> SAB 13,5/MF/35 <b>17039.0</b> 10	<b>Qty.</b> SAB 20/MF/35 <b>17040.0</b> 10	<b>Qty.</b> MF/35 <b>2606.0</b> 20	
IEC/EN Steel	IEC/EN Steel	IEC/EN Steel	Steel	
-	-	-	-	
3 – 8	4 – 13.5	10 – 20	-	
-	-	-	M4	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Qty.</b>	
SH 1 BG <b>2318.2</b> 240 1	SH 1 BG <b>2318.2</b> 240 1	SH 1 BG <b>2318.2</b> 240 1		
SH SAB BG <b>1530.2</b> 241 1	SH SAB BG <b>1530.2</b> 241 1	SH SAB BG <b>1530.2</b> 241 1		
Ssch 10x3 MS <b>2128.0</b> 83 1m	Ssch 10x3 MS <b>2128.0</b> 83 1m	Ssch 10x3 MS <b>2128.0</b> 83 1m		
Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m	Ssch 10x3 CU <b>2129.0</b> 83 1m		
ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50		
ZB 4 <b>2138.0</b> 90 50	ZB 4 <b>2138.0</b> 90 50	ZB 4 <b>2138.0</b> 90 50		
ZB 4/K GNYE <b>2483.1</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50	ZB 4/K GNYE <b>2483.1</b> 90 50		
BS M 4x8 <b>2262.0</b> 232 20	BS M 4x8 <b>2262.0</b> 232 20	BS M 4x8 <b>2262.0</b> 232 20		
BS M 4x30 <b>2123.0</b> 291 50	BS M 4x30 <b>2123.0</b> 291 50	BS M 4x30 <b>2123.0</b> 291 50		

### Mounting on DIN rail



SAB/.../MF/35

### Dimensions

Type	L	B	H	Foot height
SAB 8/MF/35	18.5 mm	3.0 mm	26.5 mm	7.3 mm
SAB 13,5/MF/35	22.0 mm	19.5 mm	32.5 mm	7.3 mm
SAB 20/MF/35	27.0 mm	24.5 mm	40.5 mm	7.3 mm

## Clamping yoke ZB

- Screw connection
- Material: steel
- Busbar support
- Material: polyamide 6.6

	ZB 4/... 10x3	ZB 4/... 6x4	ZB 16/... 10x3
			
	Clamping yoke 4 mm <sup>2</sup> for busbar 10x3	Clamping yoke 4 mm <sup>2</sup> for busbar 6x6	Clamping yoke 16 mm <sup>2</sup> for busbar 10x3
<b>Connection type</b>	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>
Dimensions (L x W x H), mm	15.5 x 5.3 x 11.7 mm	12 x 5.5 x 15 mm	15.5 x 10 x 16.5 mm
<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Type/colour	ZB 4	ZB 4/6	ZB 16
<b>Cat. no.</b>	<b>2138.0</b>	<b>2328.0</b>	<b>2139.0</b>
Type/colour	ZB 4/K GNYE	ZB 4/6/K GNYE	ZB 16/K GNYE
<b>Cat. no.</b>	<b>2483.1</b>	<b>2486.1</b>	<b>2484.1</b>
Type/colour	ZB 4/K BU	ZB 4/6/K BU	ZB 16/K BU
<b>Cat. no.</b>	<b>2483.5</b>	<b>2486.5</b>	<b>2484.5</b>
Type/colour	ZB 4/K BK		
<b>Cat. no.</b>	<b>2483.4</b>		
<b>Technical data</b>			
Material of clamping yoke	Steel	Steel	Steel
Material of cap/holder	PA 6.6 V2	PA 6.6 V2	PA 6.6 V2
Material of busbar CU/MS	-	-	-
	-	-	-
<b>Ratings</b>			
Rated conductor cross-section, mm <sup>2</sup>	0.5-4	0.5-4	2.5-16
Screw	M 3 x 8	M 3 x 8	M 4 x 12
Load current CU/MS	-	-	-
Stripping length mm	16	12	16
<b>Accessories</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
Cap GNYE	K 4 GNYE	K 4/6 GNYE	K 16 GNYE
<b>Cat. no.</b>	<b>2488.1</b>	<b>2491.1</b>	<b>2489.1</b>
Cap BU	K 4 BU	K 4/6 BU	K 16 BU
<b>Cat. no.</b>	<b>2488.5</b>	<b>2491.5</b>	<b>2489.5</b>
Cap black	K 4 BK		
<b>Cat. no.</b>	<b>2488.4</b>		
Mounting screw BS			
<b>Cat. no.</b>			

### Busbars and clamping yokes

The **ZB** clamping yoke can be used in conjunction with the busbars in order to bring the neutral conductor or PE conductor together centrally. In order to help customize the facility wiring, the clamping yoke can be pushed onto the busbar. The **SH** and **ES** busbar supports are used for attachment. With longer rails, these can be positioned between the clamping yokes. The clamping yoke as a PE connection is available with green/yellow insulation caps. These caps signal the PE function together with the labelling tags and enable the PE wires to be clearly assigned. If you are using the clamping yoke to connection neutral conductors, then it can be marked with a blue insulation cap.



Mount with busbar support SH 1 BG

ZB 16/... 6x6	ZB 35/... 10x3	Ssch 10 x 3	Ssch 6 x 6	
				
Clamping yoke 16 mm <sup>2</sup> for busbar 6x6	Clamping yoke 35 mm <sup>2</sup> for busbar 10x3	Busbar 3x10	Busbar 6x6	
<b>Screw connection</b> 12 x 9.5 x 19.9 mm	<b>Screw connection</b> 18 x 14 x 21 mm	100 x 10 x 3	100 x 6 x 6	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZB 16/6 <b>2329.0</b> 50	ZB 35 <b>2305.0</b> 50	Ssch 10x3 MS <b>2128.0</b> 1m	Ssch 6x6 MS <b>2132.0</b> 1m	
ZB 16/6/K GNYE <b>2487.1</b> 50	ZB 35/K GNYE <b>2485.1</b> 50	Ssch 10x3 CU <b>2129.0</b> 1m	Ssch 10x3 CU <b>2131.0</b> 1m	
ZB 16/6/K BU <b>2487.5</b> 50	ZB 35/K BU <b>2485.5</b> 50			
Steel PA 6.6 V2 - -	Steel PA 6.6 V2 - -	- - Copper / brass -	- - Copper / brass -	
2.5-16 M 4 x 12 - 12	16-35 M 6 x 15 - 18	- - 140 A /100A -	- - 140 A /100A -	
<b>Page Qty.</b>	<b>Page Qty.</b>			
K 16/6 GNYE <b>2492.1</b> 239 50	K 35 GNYE <b>2490.1</b> 239 50			
K 16/6 BU <b>2492.5</b> 239 50	K 35 BU <b>2990.5</b> 239 50			



Mount with busbar support SH SAB BG



Mount with busbar support ES 35/K/ST BG





## Ex terminal blocks ATEX



In regards to the use of terminal blocks and PE terminals in explosive-risk zones, the standard regulations (EN 60947-7-1 and EN 60947-7-2) apply, as do the following additional regulations:



EN 60 079-0 and for increased safety “e” EN 60 079-7

### Increased safety

Ex terminal blocks are designated as Ex components according to EN 50 014. A component is so designated when it is required to support the safe operations of devices and protective systems but does not itself function autonomously. In compliance with the European Ex Directive Ex-RL 94/9/EG, components are not labelled with the CE mark.

Ex terminal blocks are certified for the “Increased safety Ex e” ignition protection category.

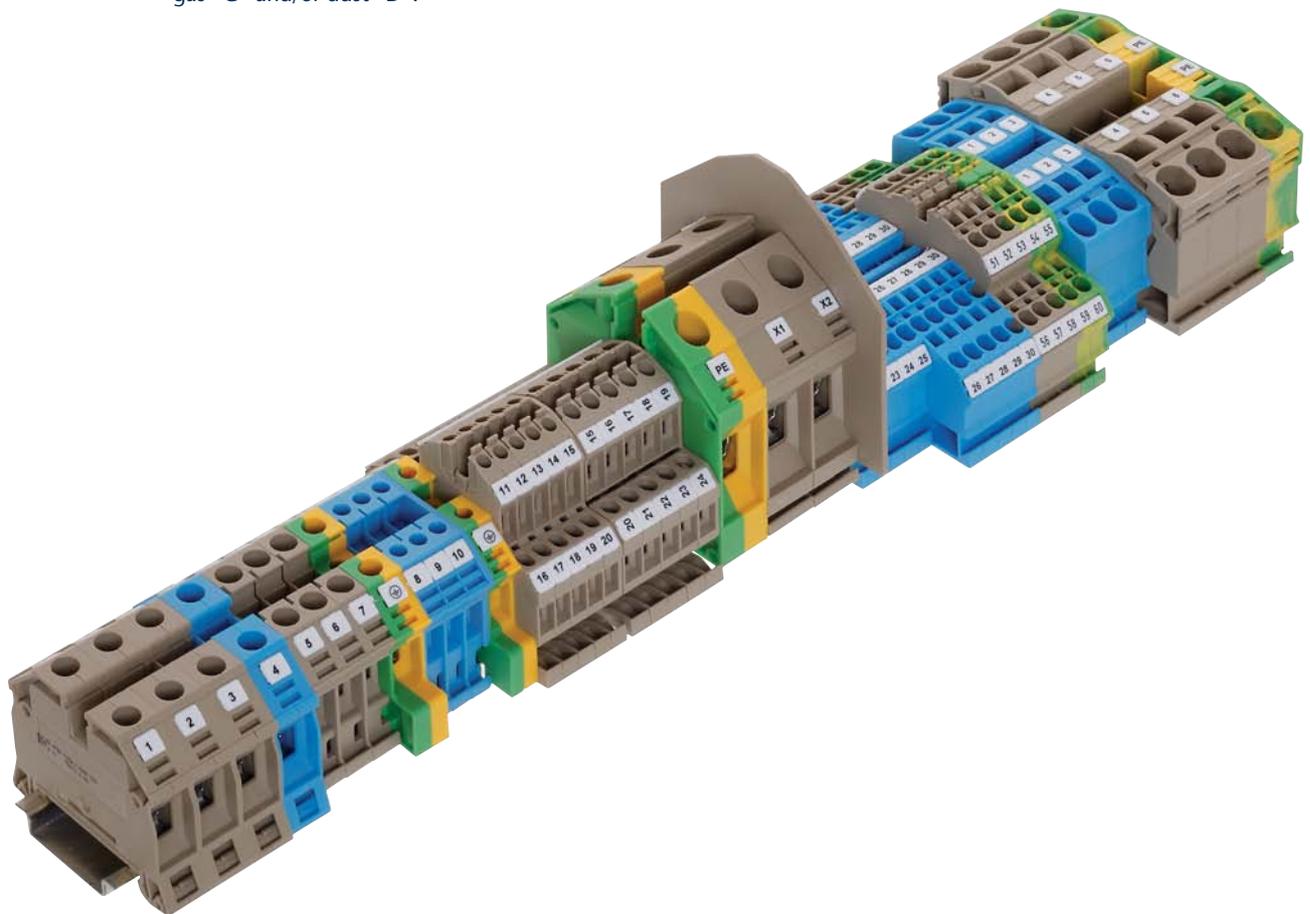
Class II (gas, fumes, fog) device category 2 / Zone 1 or 2, approved for applications in gas “G” and/or dust “D”.

By means of the EC-standard examination certificate, compliance with EN 50 014/50 019 and the Ex- Protective Directive 94/9/EG is certified by the designated European bodies RL 94/9/EG (Nemko, TÜV Rheinland Group and Kema certifying bodies).

A prerequisite is certification of the manufacturer’s quality management system in compliance with DIN ISO 9001, with an additional audit according to 94/9/EC.

**CONTA-CLIP** is audited by the German Association for Certification of Management Systems (DQS GmbH) for DIN ISO 9001.

**CONTA-CLIP** has been ATEX-certified by the TÜV Rheinland Group with an intermediate audit.



## Ex terminal blocks ATEX

### Ignition protection category Ex i

No special approval is needed when using the terminal blocks for the intrinsically safe ignition protection category. Ex e- as well as standard terminal blocks can be used here when observing the gaps, creepage and clearance distances in accordance with IEC/EN 60079-11. Blue terminal blocks should be selected so that they are easily and clearly identified.

### Ignition protection category Ex e

In observance of the corresponding installation guidelines, the terminal blocks listed on the following pages fulfil the requirements for the "Increased safety" Ex e protection category. As such, they are approved for use in Zone 1 and 2.

### CENELEC and NEC explosive groups

CENELEC	NEC 500	Gas
IIA	D	Propane
IIB	C	Ethylene
IIC	B	Hydrogen
IIC	A	Acetylene
I	Mining (MSHA)	Methane (mining)

### CENELEC and NEC temperature classes, group II

Temperature class CENELEC	Temperature class NEC 500	Max. surface temperature, °C
T1	T1	450
T2	T2	300
-	T2A	280
-	T2B	260
-	T2C	230
-	T2D	215
T3	T3	200
-	T3A	180
-	T3B	165
-	T3C	160
T4	T4	135
-	T4A	120
T5	T5	100
T6	T6	85

### CENELEC and NEC classification for explosive-risk zones

CENELEC Classification IEC60079-10	US Classification NEC 500	The possible presence of an explosive atmosphere	Device categories	Flammable substances and material
Zone 0	Class I, Div 1	always, long-term or often	1G	gas and fumes
Zone 20	Class II, Div 1	always, long-term or often	1D	dust
Zone 1	Class I, Div 1	occasionally	2G	gas and fumes
Zone 20	Class II, Div 1	occasionally	2D	dust
Zone 2	Class I, Div 2	normally not, only rarely	3G	gas and fumes
Zone 22	Class II, Div 2	normally not, only rarely	3D	dust

### CENELEC protection classes

CENELEC	Protection category	Code	IEC	Device categories
EN 60079-0	General requirements	-	60079-0	-
EN 60079-6	Oil immersion	o	60079-6	2
EN 60079-2	Pressurized enclosure	p	60079-2	2
EN 60079-5	Sand encapsulation	q	60079-5	2
EN 60079-1	Pressure-proof encapsulation	d	60079-1	2
EN 60079-7	Increased safety	e	60079-7	2
EN 60079-11	Intrinsic safety	ia	60079-11	1
EN 60079-11	Intrinsic safety	ib	60079-11	2
EN 60079-11	Intrinsic safety	ic	60079-11	3
EN 60079-18	Moulded encapsulation	m	60079-18	2

Cross-connection instructions for ATEX terminals

Product line	Certification No.	Rated volt- age, V	Rated cur- rent A	Rated cross- section, mm <sup>2</sup>	Maximum voltage, V (in reference to alignment diagram)								
					A	B	C	D	E	F	G	H	
<b>BA...</b>													
BKA 2.5/1 Ex	NEMKO ATEX 1135U	275	24	2.5	125	125	-	125	-	-	-	-	-
BKA 4/1 Ex	NEMKO ATEX 1135U	275	32	4	160	160	-	160	-	-	-	-	-
BKA 10/1	NEMKO ATEX 1135U	275	57	10	200	200	-	200	-	-	-	-	-
<b>RK...</b>													
RK 1.5-4/15 Ex	NEMKO ATEX 1136U	400	34	4	320	20	320	320	320	320	320	320	-
RK 2.5 Ex	NEMKO ATEX 1136U	690	26	2.5	250	0	250	250	250	250	250	250	-
RK 2.5-4 Ex	NEMKO ATEX 1136U	690	34	4	125	0	125	125	125	125	125	125	-
RK 2.5 / 35 N2Q Ex	TÜV ATEX 7092U	400	20	2.5	400	400	400	400	400	400	400	400	-
RK 6-10 Ex	NEMKO ATEX 1136U	690	61	10	400	50	400	400	400	400	400	400	-
RK 16 Ex	NEMKO ATEX 1136U	690	82	16	400	160	400	400	400	400	400	400	-
RK 16/35 N Ex	TÜV ATEX 7092U	500	76	16	500	160	500	500	500	500	-	320	-
RK 35 Ex	NEMKO ATEX 1136U	690	135	35	630	250	630	630	630	630	630	630	-
RK 35/35 N Ex	TÜV ATEX 7092U	500	125	35	500	500	500	500	500	-	500	-	-
RK 50 Ex	TÜV ATEX 7092U	800	150	50	800	-	-	-	-	-	-	-	-
RK 50 Ex with MAG	TÜV ATEX 7092U	800	150	50	-	-	-	-	-	-	-	-	-
RK 95 Ex	TÜV ATEX 7092U	1000	232	95	1000	-	-	-	-	-	-	-	-
RK 95 Ex with MAG	TÜV ATEX 7092U	1000	232	95	-	-	-	-	-	-	-	-	-
RK 150 Ex	TÜV ATEX 7092U	1000	309	150	1000	-	-	-	-	-	-	-	-
RK 150 Ex with MAG	TÜV ATEX 7092U	1000	309	150	-	-	-	-	-	-	-	-	-
RK 240 Ex	TÜV ATEX 7092U	1000	380	240	1000	-	-	-	-	-	-	-	-
RK 240 Ex with MAG	TÜV ATEX 7092U	1000	380	240	-	-	-	-	-	-	-	-	-
<b>RKD...</b>													
RKD 2.5 Ex	NEMKO ATEX 1136U	400	26	2.5	320	0	320	320	-	320	-	-	-
RKD 4 Ex	NEMKO ATEX 1136U	400	34	4	250	0	250	250	-	250	-	-	-
<b>RKDG ...</b>													
RKDG 4 Ex	TÜV ATEX 7092U	500	32	4	-	-	400	-	-	-	-	-	-
<b>ZIKD ...</b>													
ZIKD 2.5 Ex	TÜV ATEX 7093U	500	24	2.5	500	320	400	500	500	500	500	500	500
<b>ZRK ...</b>													
ZRK 2.5/2A Ex	TÜV ATEX 7093U	630	24	2.5	630	320	500	630	320	500	500	500	500
ZRK 2.5/3A Ex	TÜV ATEX 7093U	500	24	2.5	500	320	500	500	500	500	500	500	500
ZRK 2.5/4A Ex	TÜV ATEX 7093U	630	24	2.5	630	320	500	630	500	500	500	500	500
ZRK 4/2A Ex	TÜV ATEX 7093U	500	32	4	500	250	400	500	500	500	500	500	250
ZRK 4/3A Ex	TÜV ATEX 7093U	500	32	4	500	250	400	500	500	500	500	500	250
ZRK 4/4A Ex	TÜV ATEX 7093U	500	32	4	500	250	400	500	500	500	500	500	250
ZRK 6/2A Ex	TÜV ATEX 7093U	630	41	6	630	500	630	630	630	630	630	630	-
ZRK 10/2 A Ex	TÜV ATEX 7093U	500	57	10	500	500	500	-	500	500	500	500	400
ZRK 16/2 A Ex	TÜV ATEX 7093U	630	76	16	630	630	630	-	630	630	630	630	500
<b>ZRKD ...</b>													
ZRKD 2.5 Ex	TÜV ATEX 7093U	500	24	2.5	500	320	500	500	500	500	500	500	500
<b>ZSRK ...</b>													
ZSRK 2.5/2A Ex	TÜV ATEX 7093U	500	24	2.5	500	320	500	500	500	500	500	500	-
ZSRK 2.5/2A/15 Ex	TÜV ATEX 7093U	320	24	2.5	320	320	320	320	320	320	320	320	320
ZSRK 2.5/2A/D	TÜV ATEX 7093U	500	24	2.5	500	320	-	-	-	-	-	-	-
ZSRK 2.5/3A Ex	TÜV ATEX 7093U	500	24	2.5	500	320	500	500	500	500	500	500	-
ZSRK 2.5/3A/15 Ex	TÜV ATEX 7093U	500	24	2.5	500	320	500	500	500	500	500	500	-

## Aligning terminal blocks and cross-connectors



**A)** Continual cross-connections



**B)** Cross-connection with neighbouring QI  
(not separated by AP or TW)



**C)** Neighbouring cross-connection  
(Q separated by AP or TW)



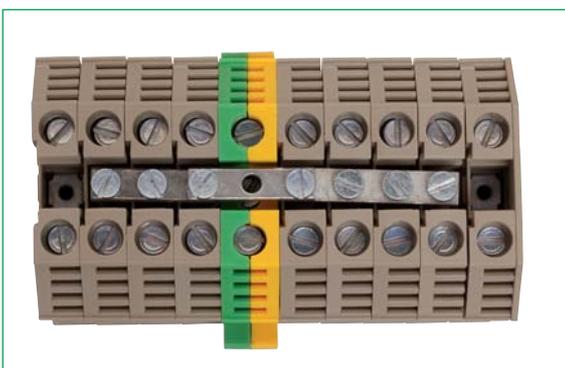
**D)** Cross-connection skipping over ZQI/QI/Q  
(for example, every third terminal is connected)



**E)** Neighbouring with a SL terminal without TW/AP



**F)** Neighbouring with a SL terminal  
(separated by AP or TW)



**G)** Skipping over a SL terminal



**H)** Two cross-connections in parallel

**Ex feed-through and protective-earth terminals certified by ATEX**

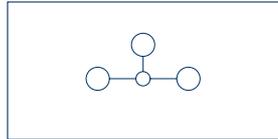
**Screw connection system**



- Foot can be snapped on TS15, TS32 or TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

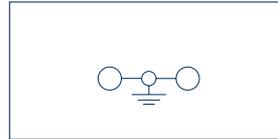
**Connection diagram**

**RK 1.5-4/15 Ex**



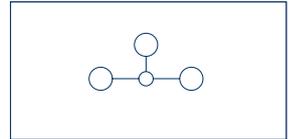
Feed-through terminal  
2 connections

**SL 4/15 Ex**



Protective earth terminal  
2 connections

**RK 2.5 Ex**



Feed-through terminal  
2 connections

**Connection type**

Size (L x W x H) with TS 15, mm

**Screw connection**

27 x 6 x 34.5

**Screw connection**

32 x 7 x 34

**Screw connection**

48 x 5 x 51.5  
48 x 5 x 47

Size (L x W x H) with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Partial certification number

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Finely stranded | Finely stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

**Qty.**

RK 1.5-4/15 Ex BG

**1433.2** 100

RK 1.5-4/15 Ex BU

**1433.5** 100

**Qty.**

SL 4/15 Ex GNYE

**1404.2** 100

**Qty.**

RK 2.5 Ex BG

**1426.2** 100

RK 2.5 Ex BU

**1426.5** 100

② ⑤

400

34

NEMKO ATEX 1136 U

4 | 22-10

6 | 3

A4 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

9

0.5-1.0 | Slotted M 3

②

400

34

NEMKO ATEX 1135 U

4 | 22-10

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-4

0.2-4

9

0.5-1.0 | Slotted M 3

② ⑤

690

26

NEMKO ATEX 1136 U

2.5 | 22-12

8 | 3

A3 | V2

0.2-4 | -

0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +105°C

1 | -

PA 6.6 | -40 to +105°C

- | -

PA 6.6 | -40 to +105°C

1 | 1

**Accessories**

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

End stop ES

**Cat. no.**

Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**Page Qty.**

AP 1.5-4 BG

**2738.2** 232 50

TW 1.5-4 BG

**2071.2** 316 50

TRS 3 BG

**2566.2** 316 100

Q 2

**2087.0** 289 50

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

ES 15 BG

**2074.2** 275 50

SDB 0.6x3.5

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

**Page Qty.**

AP 2.5-10 BG

**2001.2** 278 50

TW 2.5-10 BG

**2002.2** 316 50

TRS 3 BG

**2566.2** 316 100

Q 2

**2567.0** 288 50

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

SDB 0.6x3.5

**1086.0** 422 1

PMC SB 6/50 WH

**4702.7** 340 500

**Page Qty.**

AP 2.5-10 BG

**2001.2** 278 50

TW 2.5-10 BG

**2002.2** 316 50

TRS 3 BG

**2566.2** 316 100

Q 2

**2567.0** 288 50

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

**Cat. no.**

Cross-connector Q / Insulated cross-connector ZQI

**Cat. no.**

Insulated cross-connector ZQI / QI

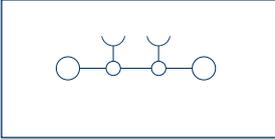
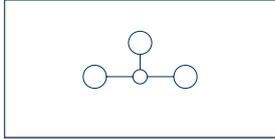
**Cat. no.**

SDB 0.5x3.0

**1085.0** 422 1

PMC SB 5/50 WH

**4600.7** 339 500

RK 2.5/35/N/2Q Ex	SL 2.5/35 Ex	RK 2.5-4 Ex	SL 4/35 Ex	
 M 2.5	 M 2.5	 M 3	 M 3	
				
Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections	
<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	
62.5 x 5.1 x 47	52 x 6 x 47	48 x 6 x 51.5 48 x 6 x 47	56 x 8 x 47	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
RK 2.5/35/N/2Q Ex BG <b>1580.2</b> 100	SL 2.5/35 Ex GNYE <b>1435.2</b> 100	RK 2.5-4 Ex BG <b>1427.2</b> 100	SL 4/35 Ex GNYE <b>1437.2</b> 100	
RK 2.5/35/N/2Q Ex BU <b>1580.5</b> 100		RK 2.5-4 Ex BU <b>1427.5</b> 100		
<b>② ⑤</b>	<b>②</b>	<b>② ⑤</b>	<b>②</b>	
400		690		
22		34		
TÜV ATEX 7092 U	NEMKO ATEX 1136 U	NEMKO ATEX 1136 U	NEMKO ATEX 1136 U	
2.5   20-14	2.5   22-12	4   22-10	4   22-10	
8   3	8   3	6   3	8   3	
A3   V2	A3   V2	A4   V2	A4   V2	
0.2-4   -	0.2-4   -	0.2-6   -	0.2-6   -	
0.2-4   0.2-2.5	0.2-4   0.2-2.5	0.2-6   0.2-4	0.2-6   0.2-4	
0.2-4	0.2-4	0.2-6	0.2-6	
9	10	12	12	
0.4-0.8   Slotted M 2.5	0.4-0.8   Slotted M 2.5	0.5-1.0   Slotted M 3	0.5-1.0   Slotted M 3	
PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	PA 6.6   -40 to +105°C	
2   1	-   -	1   1	-   -	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
AP 2.5-10 BG <b>2001.2</b> 278 50		AP 2.5-10 BG <b>2001.2</b> 278 50		
TW 2.5-10 BG <b>2002.2</b> 316 50		TW 2.5-10 BG <b>2002.2</b> 316 50		
		TRS 1 BG <b>2003.2</b> 316 100		
ZQI 2.5/2 YE <b>3710.8</b> 308 50		Q 2 <b>2019.0</b> 289 50		
ZQI 2.5/3 YE <b>3711.8</b> 308 50		QI 2 YE <b>2740.2</b> 289 50		
ZQI 2.5/4 YE <b>3712.8</b> 308 20		Q 3 <b>2020.0</b> 289 50		
ZQI 2.5/5 YE <b>3713.8</b> 308 20		QI 3 YE <b>2741.2</b> 289 50		
ZQI 2.5/6 YE <b>3714.8</b> 308 20		Q 4 <b>2021.0</b> 289 20		
ZQI 2.5/7 YE <b>3715.8</b> 308 20		QI 4 YE <b>2742.2</b> 289 20		
ZQI 2.5/8 YE <b>3716.8</b> 308 10		Q 10 <b>2022.0</b> 289 10		
ZQI 2.5/9 YE <b>3717.8</b> 308 10		QI 10 YE <b>2743.2</b> 289 10		
ZQI 2.5/10 YE <b>3718.8</b> 308 10				
ES 35/K/ST BG <b>2828.0</b> 274 50		ES 35/K/ST BG <b>2828.0</b> 274 50		
SDB 0.5x3.0 <b>1085.0</b> 422 1	SDB 0.5x3.0 <b>1085.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	
PMC SB 5/50 WH <b>4600.7</b> 339 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 339 500	PMC SB 8/40 WH <b>9323.7</b> 342 400	

**Ex feed-through and protective-earth terminals certified by ATEX**

**Screw connection system**



- Foot can be snapped on TS15 or TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

**Connection diagram**

**Connection type**

Size (L x W x H) with TS 35 x 7.5 mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Partial certification number

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

End plate AP

**Cat. no.**

Partition plate TW

**Cat. no.**

Insulation plate TRS

**Cat. no.**

Cross-connector Q / Insulated cross-connector QI/AQI

**Cat. no.**

Cover AD

**Cat. no.**

End stop ES

**Cat. no.**

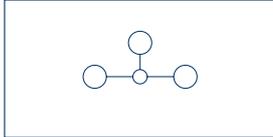
Screwdriver SDB

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**RK 6-10 Ex**



Feed-through terminal  
2 connections

**Screw connection**

48 x 8 x 51.5

48 x 8 x 47

**Qty.**

RK 6-10 Ex BG

**1430.2**

100

RK 6-10 Ex BU

**1430.5**

100

② ⑤

690

61

NEMKO ATEX 1136 U

10 | 22-6

6 | 3

A5 | V2

0.2-10 | -

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

PA 6.6 | -40 to +105°C

1 | 1

**Page Qty.**

AP 2.5-10 BG

**2001.2**

278

50

TW 2.5-10 BG

**2002.2**

316

50

TRS 1 BG

**2003.2**

316

100

Q 2

**2060.0**

289

50

QI 2 YE

**2750.2**

289

50

Q 3

**2061.0**

289

50

QI 3 YE

**2751.2**

289

50

Q 4

**2062.0**

289

20

QI 4 YE

**2752.2**

289

20

Q 10

**2063.0**

289

10

QI 10 YE

**2753.2**

289

10

AD 1/8/B YE

**2954.0**

311

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.8x4.0

**1087.0**

422

1

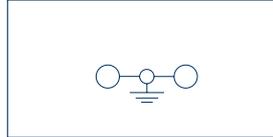
PMC SB 8/40 WH

**9323.7**

342

400

**SL 10/35 Ex**



Protective earth terminal  
2 connections

**Screw connection**

56 x 10 x 47

**Qty.**

SL 10/35 Ex GNYE

**1439.2**

80

②

690

82

NEMKO ATEX 1136 U

10 | 22-6

8 | 3

A5 | V2

0.2-10 | -

0.2-10 | 0.2-10

0.2-10

12

1.2-2.0 | Slotted M 4

PA 6.6 | -40 to +105°C

- | -

**Page Qty.**

AP 16 BG

**2104.2**

278

20

TW 16 BG

**2105.2**

316

20

Q 2

**2112.0**

290

20

Q 3

**2113.0**

290

20

Q 4

**2114.0**

290

10

Q 10

**2115.0**

290

10

AD 1/12/B YE

**2819.0**

311

20

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.8x4.0

**1087.0**

422

1

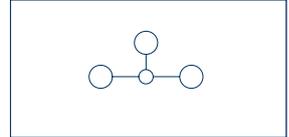
PMC SB 6/50 WH

**4702.7**

340

500

**RK 16 Ex**



Feed-through terminal  
2 connections

**Screw connection**

50 x 12 x 63

50 x 12 x 58.5

**Qty.**

RK 16 Ex BG

**1431.2**

50

RK 16 Ex BU

**1431.5**

50

② ⑤

690

82

NEMKO ATEX 1136 U

16 | 12-4

8 | 3

B7 | V2

2.5-16 | 2.5-25

2.5-16 | 2.5-16

2.5-25

15

2.0-4.0 | Slotted M 5

PA 6.6 | -40 to +105°C

1 | -

**Page Qty.**

AP 16 BG

**2104.2**

278

20

TW 16 BG

**2105.2**

316

20

Q 2

**2112.0**

290

20

Q 3

**2113.0**

290

20

Q 4

**2114.0**

290

10

Q 10

**2115.0**

290

10

AD 1/12/B YE

**2819.0**

311

20

ES 35/K/ST BG

**2828.0**

274

50

SDB 0.8x4.0

**1087.0**

422

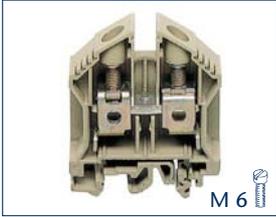
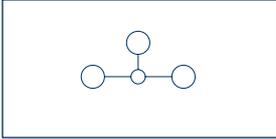
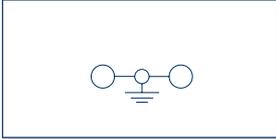
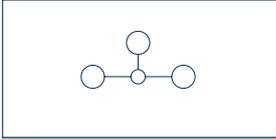
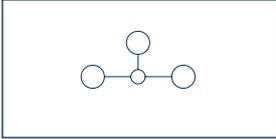
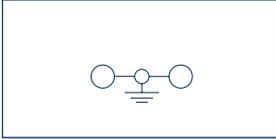
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PMC SB 6/50 WH

**4702.7**

340

500

RK 16/35/N Ex	SL 16/35 Ex	RK 35 Ex	RK 35/35/N Ex	SL 35/35 Ex
				
M 5	M 5	M 6	M 6	M 6
				
Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections
<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>	<b>Screw connection</b>
54 x 11.9 x 47	50 x 12 x 63	58 x 16 x 76 58 x 16 x 71.5	58 x 11.9 x 47	58 x 16 x 71.5
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
<b>1409.2</b> RK 16/35 N Ex BU 50	<b>1441.2</b> SL 16/35 Ex GNYE 50	<b>1432.2</b> RK 35 Ex BG 20	<b>1471.2</b> RK 35/35 N Ex BG 20	<b>1443.2</b> SL 35/35 Ex GNYE 20
<b>1409.5</b> 50		<b>1432.5</b> RK 35 Ex BU 20	<b>1471.5</b> RK 35/35 N Ex BU 20	
② .5	②	② .5	② .5	②
76 TÜV ATEX 7092U 16   12-4 8   3 B7   V2	76 NEMKO ATEX 1136 U 16   10-4 12   3 B7   V2	660 135 NEMKO ATEX 1136 U 35   12-2 8   3 B8   V2	500 125 TÜV ATEX 7092U 35   12-2 8   3 B8   V2	500 125 NEMKO ATEX 1136 U 35   12-2 12   3 B9   V2
2.5-16   2.5-16 2.5-25 15 2.0-4.0   Slotted M 5	2.5-16   2.5-25 2.5-16   2.5-16 2.5-25 15 2.0-4.0   Slotted M 5	2.5-16   2.5-50 2.5-35   2.5-35 2.5-50 20 2.5-5.0   Slotted M 6	2.5-16   2.5-50 2.5-35   2.5-35 2.5-50 20 2.5-5.0   Slotted M 6	2.5-16   2.5-50 2.5-35   2.5-35 2.5-50 20 2.5-5.0   Slotted M 6
1   -	PA 6.6   -40 to +105°C -   -	PA 6.6   -40 to +105°C 1   -	PA 6.6   -40 to +105°C 1   -	PA 6.6   -40 to +105°C -   -
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
		AP 35 BG <b>2116.2</b> 278 20 TW 35 BG <b>2117.2</b> 316 20		
Q 2 <b>2257.0</b> 290 20		Q 2 <b>2164.0</b> 290 20	Q 2 <b>2164.0</b> 290 20	
Q 3 <b>2258.0</b> 290 20		Q 3 <b>2165.0</b> 290 20	Q 3 <b>2165.0</b> 290 20	
Q 4 <b>2265.0</b> 290 10		Q 4 <b>2166.0</b> 290 10	Q 4 <b>2166.0</b> 290 10	
Q 10 <b>2266.0</b> 290 10		Q 10 <b>2167.0</b> 290 10	Q 10 <b>2167.0</b> 290 10	
AD 1/12/N/B YE <b>2955.0</b> 311 20		AD 1/16/B YE <b>2820.0</b> 311 20	AD 1/16 N/B YE <b>2956.0</b> 311 20	
ES 35/K/ST BG <b>2828.0</b> 274 50		ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	
SDB 0.8x4.0 <b>1087.0</b> 422 1	SDB 0.8x4.0 <b>1087.0</b> 422 1	SDB 1.2x6.5 <b>1088.0</b> 422 1	SDB 1.2x6.5 <b>1088.0</b> 422 1	SDB 1.2x6.5 <b>1088.0</b> 422 1
PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500

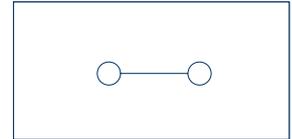
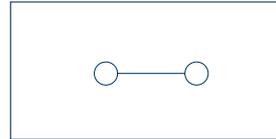
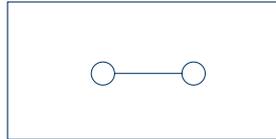
Ex feed-through terminals certified according to ATEX

Screw connection system



- Foot can be snapped on TS15 or TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram



Feed-through terminal  
2 connections

Feed-through terminal  
2 connections

Feed-through terminal  
2 connections

Connection type

Size (L x W x H) with TS 32, mm

Size (L x W x H) with TS 35 x 7.5 mm

Screw connection

79 x 20 x 82

79 x 20 x 76.5

Screw connection

84 x 25 x 94

84 x 25 x 88.5

Screw connection

93 x 31 x 118.5

93 x 31 x 112.8

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type/colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Partial certification number

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

Torque, Nm | Screw

Qty.

RK 50 Ex BG

1473.2

RK 50 Ex BU

1473.5

② ⑤

800

150

TÜV ATEX 7092 U

50 | 1/0-6

8 | 3

B10 | V2

10-16 | 16-50

16-50 | 16-50

10-50

27

3-6 | Hexagon socket M 6

Qty.

RK 95 Ex BG

1476.2

RK 95 Ex BU

1476.5

② ⑤

1000

232

TÜV ATEX 7092 U

95 | 4/0-2

8 | 3

B12 | V2

- | 35-95

50-95 | 50-95

35-95

30

6-12 | Hexagon socket M 8

Qty.

RK 150 Ex BG

1477.2

RK 150 Ex BU

1477.5

② ⑤

1000

309

TÜV ATEX 7092 U

150 | 300-2

8 | 3

B14 | V2

- | 25-150

35-150 | 35-150

25-150

38

10-20 | Hexagon socket M 10

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +120°C

- | -

- | -

PA 6.6 | -40 to +120°C

- | -

- | -

PA 6.6 | -40 to +120°C

- | -

- | -

Accessories

End plate AP

Cat. no.

Partition plate TW

Cat. no.

Insulation plate TRS

Cat. no.

Cross-connector Q / External insulated cross-connector AQI

Cross-connector Q / External insulated cross-connector AQI

Cross-connector Q

Cross-connector Q

Cover AD

Inlay profile EP

Allen key socket wrench ISKS

End stop ES

Screwdriver SDB

Quick marking PMC SB

Page Qty.

AQI 2/50 YE

2763.2 293 5

AQI 3/50 YE

2764.2 293 5

AD 1/50/B YE

2810.0 311 20

EP 50

2274.0 41 10

ISKS 5

2818.0 422 1

ES 35/K/ST BG

2828.0 274 50

PMC SB 6/50 WH

4702.7 340 500

Page Qty.

AQI 2/95 YE

2765.2 294 5

AQI 3/95 YE

2766.2 294 5

AD 1/95/B YE

2804.0 311 20

EP 95

2275.0 41 10

ISKS 6

2772.0 422 1

ES 35/K/ST BG

2828.0 274 50

PMC SB 6/50 WH

4702.7 340 500

Page Qty.

AQI 2/150 YE

2767.2 294 5

AQI 3/150 YE

2768.2 294 5

AD 1/150/B YE

2806.0 311 20

EP 150

2277.0 41 10

ISKS 8

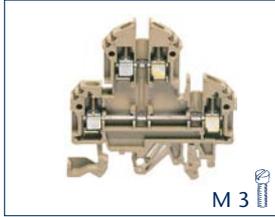
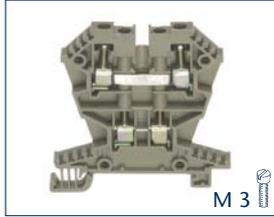
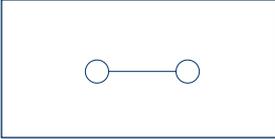
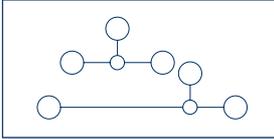
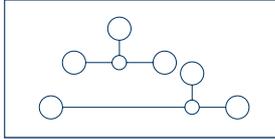
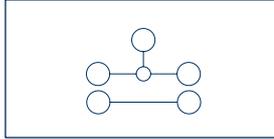
2773.0 422 1

ES 35/K/ST BG

2828.0 274 50

PMC SB 6/50 WH

4702.7 340 500

RK 240 Ex	RKD 2.5 Ex	RKD 4 Ex	RKDG 4 Ex	
				
M 10	M 2.5	M 3	M 3	
				
Feed-through terminal 2 connections	Double-level terminal 4 connections	Double-level terminal 4 connections	Double-level terminal 4 connections	
<b>Screw connection</b> 93 x 36 x 132 93 x 36 x 126.3	<b>Screw connection</b> 60.2 x 5 x 65.5 60.2 x 5 x 61	<b>Screw connection</b> 60.2 x 6 x 65.5 60.2 x 6 x 61	<b>Screw connection</b> 58.5 x 6 x 60	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
RK 240 Ex BG <b>1485.2</b> 5	RKD 2.5 Ex BG <b>1428.2</b> 100	RKD 4 Ex BG <b>1429.2</b> 100	RKDG 4 Ex BG <b>1496.2</b> 100	
RK 240 Ex BU <b>1485.5</b> 5	RKD 2.5 Ex BU <b>1428.5</b> 100	RKD 4 Ex BU <b>1429.5</b> 100	RKDG 4 Ex BU <b>1496.5</b> 100	
<b>② .5</b>	<b>② .5</b>	<b>② .5</b>	<b>② .5</b>	
1000 380 TÜV ATEX 7092 U 240   500-2/0 8   3 B16   V2	400 26 NEMKO ATEX 1136 U 2.5   22-12 6   3 A5   V2	400 34 NEMKO ATEX 1136 U 4   22-10 6   3 A3   V2	500 32 TÜV ATEX 7092 U 4   22-12 6   3 A3   V2	
-   50-240 70-240   70-240 70-240 38 10-20   Hexagon socket M 10	0.2-4   - 0.2-4   0.2-2.5 0.2-4 7 0.4-0.8   Slotted M 2.5	0.2-4   - 0.2-4   0.2-4 0.2-4 9 0.5-1.0   Slotted M 3	0.2-4   - 0.2-4   0.2-4 0.2-4 9 0.5-1.0   Slotted M 3	
PA 6.6   -40 to +120°C -   -	PA 6.6   -40 to +120°C 2   1	PA 6.6   -40 to +120°C 2   1	PA 6.6   -40 to +120°C 1   -	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
	AP 4 BG <b>2101.2</b> 278 20	AP 4 BG <b>2101.2</b> 278 20	APG 4 BG <b>2586.2</b> 278 20	
AQI 2/240 YE <b>2769.2</b> 294 5	TRS 3 BG <b>2566.2</b> 316 100 Q 2 <b>2567.0</b> 288 50 Q 3 <b>2068.0</b> 293 20 Q 4 <b>2569.0</b> 288 20 Q 10 <b>2570.00</b> 288 10	TRS 3 BG <b>2566.2</b> 316 100 Q 2 <b>2087.0</b> 289 50 Q 3 <b>2088.0</b> 289 20 Q 4 <b>2089.0</b> 288 20 Q 10 <b>2090.0</b> 289 10	Q 2 <b>2087.0</b> 289 50 Q 3 <b>2088.0</b> 289 20 Q 4 <b>2089.0</b> 288 20 Q 10 <b>2090.0</b> 289 10	
AD 1/240/B YE <b>2808.0</b> 311 20 EP 240 <b>2360.0</b> 41 10 ISKS 8 <b>2773.0</b> 422 1 ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50 SDB 0.5x3.0 <b>1085.0</b> 416 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ES 35/K/ST BG <b>2828.0</b> 274 50 SDB 0.6x3.5 <b>1086.0</b> 416 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	ES 35/K/ST BG <b>2828.0</b> 27 50 SDB 0.6x3.5 <b>1086.0</b> 416 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	
PMC SB 6/50 WH <b>4702.7</b> 340 500				

**Ex feed-through terminals for direct assembly certified according to ATEX**

**Screw connection system**



- Foot can be snapped on TS15 or TS35 DIN rails, or mounted directly
- Housing made from polyamide 6.6 UL 94-V2



**Connection type**

Size (L x W x H) with TS 15, mm  
Size (L x W x H) with TS 35 x 7.5 mm  
Direct mounting

**Type**

Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type/colour  
**Cat. no.**  
Colours available

**Ratings**

Rated voltage, V  
Rated current, A  
Partial certification number  
Rated wire cross-section, mm<sup>2</sup> | AWG  
Rated impulse voltage, kV | Contamination degree  
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>  
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>  
Contact wire range, mm<sup>2</sup>  
Stripping length, mm  
Torque, Nm | Screw

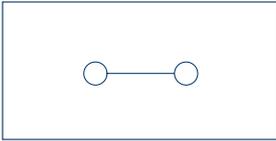
**Features**

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

**Accessories**

The AQI external insulated cross-connection  
**Cat. no.**  
External insulated cross-connection AQI  
**Cat. no.**  
End support EH /direct mounting screw  
**Cat. no.**  
End support EH /rail mount  
**Cat. no.**  
End support EH /direct mounting peg  
**Cat. no.**  
Screwdriver  
**Cat. no.**  
Quick marking PMC SB  
**Cat. no.**

**BKA 2.5 Ex**



Feed-through terminal  
2 connections

**Screw connection**

31 x 5 x 28  
22 x 5 x 23

	Qty.
BKA 2.5/1 Ex BG <b>1405.2</b>	100
RK 2.5/1 Ex BU <b>1405.5</b>	100

② ⑤

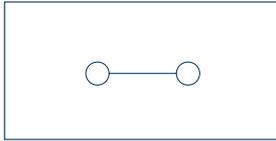
275  
24  
NEMKO ATEX 1135 U  
2.5 | 22-12  
6 | 3  
A3 | V2

0.2-4 | -  
0.2-4 | 0.2-2.5  
0.2-4  
7  
0.4-0.8 | Slotted M 2.5

PA 6.6 | -40 to +105°C  
- | -

	Page	Qty.
AQI 2/5/11 YE <b>2032.0</b>	292	50
AQI 3/5/11 YE <b>2033.0</b>	292	50
AQI 4/5/11 YE <b>2044.0</b>	292	50
AQI 10/6/11 YE <b>2045.0</b>	292	10
EH 2 BG <b>2136.2</b>	274	50
EH 15 BG <b>2945.2</b>	275	50
EH 2/Z BG <b>2147.2</b>	274	50
SDB 0.6x3.5 <b>1086.0</b>	422	1
PMC SB 5/50 WH <b>4600.7</b>	339	500

**BKA 4 Ex**



Feed-through terminal  
2 connections

**Screw connection**

31 x 6 x 28  
22 x 6 x 23

	Qty.
BKA 4/1 Ex BG <b>1406.2</b>	100
RK 4/1 Ex BU <b>1406.5</b>	100

② ⑤

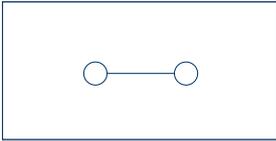
275  
32  
NEMKO ATEX 1135 U  
4 | 22-10  
6 | 3  
A3 | V2

0.2-4 | -  
0.2-4 | -  
0.2-4  
9  
0,0-1.0 | Slotted M 3

PA 6.6 | -40 to +105°C  
- | -

	Page	Qty.
AQI 2/6/11 YE <b>2125.0</b>	292	50
AQI 3/6/11 YE <b>2126.0</b>	292	50
AQI 4/6/11 YE <b>2140.0</b>	292	50
AQI 10/6/11 YE <b>2045.0</b>	292	10
EH 2 BG <b>2136.2</b>	274	50
EH 15 BG <b>2945.2</b>	275	50
EH 2/Z BG <b>2147.2</b>	274	50
SDB 0.6x3.5 <b>1086.0</b>	422	1
PMC SB 6/50 WH <b>4702.7</b>	340	500

**BKA 10 Ex**



Feed-through terminal  
2 connections

**Screw connection**

46 x 8 x 39  
30 x 8 x 31

	Qty.
BKA 10/1 Ex BG <b>1407.2</b>	50
BKA 10/1 Ex BU <b>1407.5</b>	50

② ⑤

275  
57  
NEMKO ATEX 1135 U  
10 | 22-8  
6 | 3  
A5 | V2

0.2-10 | -  
0.2-10 | -  
0.2-4  
10  
1.2-2.0 | Slotted M 4

PA 6.6 | -40 to +105°C  
- | -

	Page	Qty.
AQI 2/8/11 YE <b>2067.0</b>	293	50
AQI 3/8/11 YE <b>2068.0</b>	293	50
AQI 4/8/11 YE <b>2069.0</b>	293	50
EH 3 BG <b>2939.2</b>	275	20
EH 35 BG <b>2945.2</b>	275	50
SDB 0.8x4.0 <b>1087.0</b>	422	1
PMC SB 8/40 WH <b>9323.7</b>	342	400



Ex feed-through and protective-earth terminals certified by ATEX

Tension-spring connection system



ZSRK 2.5/2A/15 Ex



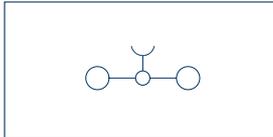
ZSLN 2.5/2A/15 Ex



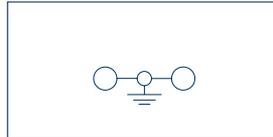
ZSRK 2.5/3A/15 Ex



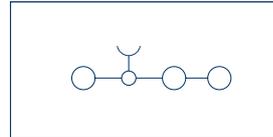
Connection diagram



Feed-through terminal  
2 connections



Protective earth terminal  
2 connections



Feed-through terminal  
3 connections

Connection type

Size (L x W x H) with TS 15 (H with labelling adapter), in mm  
Size (L x W x H) with TS 35 x 7.5 (H with labelling adapter), in mm

Tension-spring

40 x 5.1 x 34

Tension-spring

40 x 5.1 x 34

Tension-spring

52.5 x 5.1 x 34 (44)

Type

Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type colour  
**Cat. no.**  
Type/colour  
**Cat. no.**  
Colours available

Qty.

ZSRK 2.5/2A/15 Ex BG  
**1700.2** 100  
ZSRK 2.5/2A/15 Ex BU  
**1700.5** 100

Qty.

ZSLN 2.5/2A/15 Ex GNYE  
**1709.2** 100

Qty.

ZSRK 2.5/3A/15 Ex BG  
**1701.2** 100  
ZSRK 2.5/3A/15 Ex BU  
**1701.5** 100

Ratings

Rated voltage, V  
Rated current, A  
Partial certification number  
Rated wire cross-section, mm<sup>2</sup> | AWG  
Rated impulse voltage, kV | Contamination degree  
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

② ⑤

320  
24  
TÜV ATEX 7093 U  
2.5 | 20-12  
8 | 3  
A3 | V0

②

320  
24  
TÜV ATEX 7093 U  
2.5 | 20-12  
8 | 3  
A3 | V0

② ⑤

500  
24  
TÜV ATEX 7093 U  
2.5 | 20-12  
8 | 3  
A3 | V0

Connection data

Single wire (solid) | stranded (stranded) mm<sup>2</sup>  
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>  
Contact wire range, mm<sup>2</sup>  
Stripping length, mm

0.5-4 | -  
0.5-4 | 0.5-2.5  
0.08-4  
10

0.5-4 | -  
0.5-4 | 0.5-2.5  
0.08-4  
10

0.5-4 | -  
0.5-4 | 0.5-2.5  
0.08-4  
10

Features

Material of insulated housing | Temperature range  
Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +120°C  
1 | 2

PA 6.6 | -40 to +120°C  
1 | 2

PA 6.6 | -40 to +120°C  
1 | 2

Accessories

ZAP end plate  
**Cat. no.**  
Insulated cross-connector ZQI  
**Cat. no.** 2 poles  
Insulated cross-connector ZQI  
**Cat. no.** 3 poles  
Insulated cross-connector ZQI  
**Cat. no.** 4 poles  
Insulated cross-connector ZQI  
**Cat. no.** 5 poles  
Insulated cross-connector ZQI  
**Cat. no.** 6 poles  
Insulated cross-connector ZQI  
**Cat. no.** 7 poles  
Insulated cross-connector ZQI  
**Cat. no.** 8 poles  
Insulated cross-connector ZQI  
**Cat. no.** 9 poles  
Insulated cross-connector ZQI  
**Cat. no.** 10 poles  
Insulated cross-connector ZQI  
**Cat. no.** 99 poles  
Four-way cover ZAD  
**Cat. no.**  
labelling adapter ZBA  
**Cat. no.**  
End stop  
**Cat. no.**  
Test adapter ZTA  
**Cat. no.**  
Screwdriver / Metal actuating tool BWMA  
**Cat. no.**  
Quick marking PMC SB  
**Cat. no.**

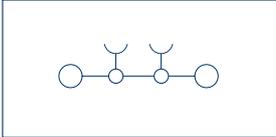
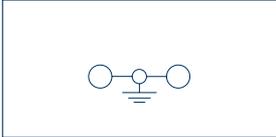
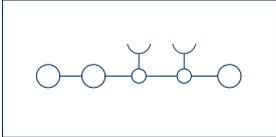
**Page Qty.**  
ZAP SR BG  
**3757.2** 280 50  
ZQI 2.5/2 YE  
**3710.8** 308 50  
ZQI 2.5/3 YE  
**3711.8** 308 50  
ZQI 2.5/4 YE  
**3712.8** 308 20  
ZQI 2.5/5 YE  
**3713.8** 308 20  
ZQI 2.5/6 YE  
**3714.8** 308 20  
ZQI 2.5/7 YE  
**3715.8** 308 20  
ZQI 2.5/8 YE  
**3716.8** 308 10  
ZQI 2.5/9 YE  
**3717.8** 308 10  
ZQI 2.5/10 YE  
**3718.8** 308 10  
ZQI 2.5/0.5 w/99 poles YE  
**3719.8** 308 1  
ZAD 2.5/4/B YE  
**3706.0** 315 20  
ZES 15 BG  
**3812.2** 275 50  
ZTA 2.5 BG  
**3740.2** 320 10  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500

**Page Qty.**  
ZAP SR GN  
**3757.1** 280 50  
ZAD 2.5/4/B YE  
**3706.0** 315 20  
ZES 15 BG  
**3812.2** 275 50  
ZTA 2.5 BG  
**3740.2** 320 10  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500

**Page Qty.**  
ZAP SR 3A/15 BG  
**3794.2** 280 50  
ZQI 2.5/2 YE  
**3710.8** 308 50  
ZQI 2.5/3 YE  
**3711.8** 308 50  
ZQI 2.5/4 YE  
**3712.8** 308 20  
ZQI 2.5/5 YE  
**3713.8** 308 20  
ZQI 2.5/6 YE  
**3714.8** 308 20  
ZQI 2.5/7 YE  
**3715.8** 308 20  
ZQI 2.5/8 YE  
**3716.8** 308 10  
ZQI 2.5/9 YE  
**3717.8** 308 10  
ZQI 2.5/10 YE  
**3718.8** 308 10  
ZQI 2.5/0.5 w/99 poles YE  
**3719.8** 308 1  
ZAD 2.5/4/B YE  
**3706.0** 315 20  
ZES 15 BG  
**3812.2** 275 50  
ZTA 2.5 BG  
**3740.2** 320 10  
BWMA 1 (0.5x3.5mm)  
**3808.0** 328 1  
PMC SB 5/50 WH  
**4600.7** 339 500

ZSLN 2.5/3A/15 Ex	ZSRK 2.5/2A Ex	ZSLN 2.5/2A Ex	ZSRK 2.5/3A Ex	ZSLN 2.5/3A Ex
Protective earth terminal 3 connections	Feed-through terminal 3 connections	Protective earth terminal 3 connections	Feed-through terminal 3 connections	Protective earth terminal 3 connections
<b>Tension-spring</b> 52.5 x 5.1 x 34 (44)	<b>Tension-spring</b> 43.5 x 5.1 x 36.5	<b>Tension-spring</b> 43.5 x 5.1 x 36.5	<b>Tension-spring</b> 55 x 5.1 x 36.5 (46.5)	<b>Tension-spring</b> 55 x 5.1 x 36.5 (46.5)
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
ZSLN 2.5/3A/15 Ex GNYE <b>1710.2</b> 100	ZSRK 2.5/2A Ex BG <b>1702.2</b> 100 ZSRK 2.5/2A Ex BU <b>1702.5</b> 100	ZSLN 2.5/2A Ex GNYE <b>1711.2</b> 100	ZSRK 2.5/3A Ex BG <b>1703.2</b> 100 ZSRK 2.5/3A Ex BU <b>1703.5</b> 100	ZSLN 2.5/3A Ex GNYE <b>1712.2</b> 100
	500 24		500 24	
TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0	TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0	TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0	TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0	TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0
0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10
PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2	PA 6.6   -40 to +120°C 1   2
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
ZAP SR 3A/15 GN <b>3794.1</b> 280 50	ZAP SR BG <b>3757.2</b> 280 50 ZQI 2.5/2 YE <b>3710.8</b> 308 50 ZQI 2.5/3 YE <b>3711.8</b> 308 50 ZQI 2.5/4 YE <b>3712.8</b> 308 20 ZQI 2.5/5 YE <b>3713.8</b> 308 20 ZQI 2.5/6 YE <b>3714.8</b> 308 20 ZQI 2.5/7 YE <b>3715.8</b> 308 20 ZQI 2.5/8 YE <b>3716.8</b> 308 10 ZQI 2.5/9 YE <b>3717.8</b> 308 10 ZQI 2.5/10 YE <b>3718.8</b> 308 10 ZQI 2.5/0.5 w/99 poles YE <b>3719.8</b> 308 1	ZAP SR GN <b>3757.1</b> 280 50	ZAP SR 3A/35 BG <b>3795.2</b> 280 50 ZQI 2.5/2 YE <b>3710.8</b> 308 50 ZQI 2.5/3 YE <b>3711.8</b> 308 50 ZQI 2.5/4 YE <b>3712.8</b> 308 20 ZQI 2.5/5 YE <b>3713.8</b> 308 20 ZQI 2.5/6 YE <b>3714.8</b> 308 20 ZQI 2.5/7 YE <b>3715.8</b> 308 20 ZQI 2.5/8 YE <b>3716.8</b> 308 10 ZQI 2.5/9 YE <b>3717.8</b> 308 10 ZQI 2.5/10 YE <b>3718.8</b> 308 10 ZQI 2.5/0.5 w/99 poles YE <b>3719.8</b> 308 1	ZAP SR 3A/35 GN <b>3795.1</b> 280 50
ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20	ZAD 2.5/4/B YE <b>3706.0</b> 315 20
ZES 15 BG <b>3812.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ZES 35/2 BG <b>3811.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ZES 35/2 BG <b>3811.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ZES 35/2 BG <b>3811.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ZES 35/2 BG <b>3811.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500

**Ex feed-through and protective-earth terminals certified by ATEX**

Tension-spring connection system	ZRK 2.5/2A Ex	ZSL 2.5/2A Ex	ZRK 2.5/3A Ex
			
<b>Connection diagram</b>			
	Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 3 connections
<b>Connection type</b>	<b>Tension-spring</b>	<b>Tension-spring</b>	<b>Tension-spring</b>
Size (L x W x H) with TS 35 x 7.5 mm	59 x 5.1 x 39	59 x 5.1 x 39	71.3 x 5.1 x 39
<b>Type</b>			
Type colour	ZRK 2.5/2A Ex BG	ZSL 2.5/2A Ex GNYE	ZRK 2.5/3A Ex BG
<b>Cat. no.</b>	<b>1704.2</b>	<b>1713.2</b>	<b>1705.2</b>
Type colour	ZRK 2.5/2A Ex BU		ZRK 2.5/3A Ex BU
<b>Cat. no.</b>	<b>1704.5</b>		<b>1705.5</b>
Type colour			
<b>Cat. no.</b>			
Type/colour			
<b>Cat. no.</b>			
Colours available	② ⑤	②	② ⑤
<b>Ratings</b>			
Rated voltage, V	630		500
Rated current, A	24		24
Partial certification number	TÜV ATEX 7093 U	TÜV ATEX 7093 U	TÜV ATEX 7093 U
Rated wire cross-section, mm <sup>2</sup>   AWG	2.5   20-12	2.5   20-12	2.5   20-12
Rated impulse voltage, kV   Contamination degree	8   3	8   3	8   3
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A3   V0	A3   V0	A3   V0
<b>Connection data</b>			
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-4   -	0.5-4   -	0.5-4   -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-4   0.5-2.5	0.5-4   0.5-2.5	0.5-4   0.5-2.5
Contact wire range, mm <sup>2</sup>	0.08-4	0.08-4	0.08-4
Stripping length, mm	10	10	10
<b>Features</b>			
Material of insulated housing   Temperature range	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
Number of cross-connection channels   Test pick-off	2   2	0   2	2   2
<b>Accessories</b>			
ZAP end plate			
<b>Cat. no.</b>	ZAP 2.5/2A BG <b>3700.2</b>	ZAP 2.5/2A GN <b>3700.1</b>	ZAP 2.5/3A BG <b>3701.2</b>
Insulated cross-connector ZQI	ZQI 2.5/2 YE <b>3710.8</b>		ZQI 2.5/2 YE <b>3710.8</b>
<b>Cat. no.</b>	2 poles <b>3711.8</b>		3 poles <b>3711.8</b>
Insulated cross-connector ZQI	ZQI 2.5/3 YE <b>3711.8</b>		ZQI 2.5/3 YE <b>3711.8</b>
<b>Cat. no.</b>	3 poles <b>3712.8</b>		4 poles <b>3712.8</b>
Insulated cross-connector ZQI	ZQI 2.5/4 YE <b>3712.8</b>		ZQI 2.5/4 YE <b>3712.8</b>
<b>Cat. no.</b>	4 poles <b>3713.8</b>		5 poles <b>3713.8</b>
Insulated cross-connector ZQI	ZQI 2.5/5 YE <b>3713.8</b>		ZQI 2.5/5 YE <b>3713.8</b>
<b>Cat. no.</b>	5 poles <b>3714.8</b>		6 poles <b>3714.8</b>
Insulated cross-connector ZQI	ZQI 2.5/6 YE <b>3714.8</b>		ZQI 2.5/6 YE <b>3714.8</b>
<b>Cat. no.</b>	6 poles <b>3715.8</b>		7 poles <b>3715.8</b>
Insulated cross-connector ZQI	ZQI 2.5/7 YE <b>3715.8</b>		ZQI 2.5/7 YE <b>3715.8</b>
<b>Cat. no.</b>	7 poles <b>3716.8</b>		8 poles <b>3716.8</b>
Insulated cross-connector ZQI	ZQI 2.5/8 YE <b>3716.8</b>		ZQI 2.5/8 YE <b>3716.8</b>
<b>Cat. no.</b>	8 poles <b>3717.8</b>		9 poles <b>3717.8</b>
Insulated cross-connector ZQI	ZQI 2.5/9 YE <b>3717.8</b>		ZQI 2.5/9 YE <b>3717.8</b>
<b>Cat. no.</b>	9 poles <b>3718.8</b>		10 poles <b>3718.8</b>
Insulated cross-connector ZQI	ZQI 2.5/10 YE <b>3718.8</b>		ZQI 2.5/10 YE <b>3718.8</b>
<b>Cat. no.</b>	10 poles <b>3719.8</b>		99 poles <b>3719.8</b>
Insulated cross-connector ZQI	ZQI 2.5/0.5 w/99 poles YE <b>3719.8</b>		ZQI 2.5/0.5 w/99 poles YE <b>3719.8</b>
<b>Cat. no.</b>	99 poles <b>3706.0</b>		
Four-way cover ZAD	ZAD 2.5/4 B YE <b>3706.0</b>	ZAD 2.5/4 B YE <b>3706.0</b>	ZAD 2.5/4 B YE <b>3706.0</b>
<b>Cat. no.</b>	315 20	315 20	315 20
labelling adapter ZBA			
<b>Cat. no.</b>			
End stop	ZES 35 BG <b>3748.2</b>	ZES 35 BG <b>3748.2</b>	ZES 35 BG <b>3748.2</b>
<b>Cat. no.</b>	275 50	275 50	275 50
Test adapter ZTA	ZTA 2.5 BG <b>3740.2</b>	ZTA 2.5 BG <b>3740.2</b>	ZTA 2.5 BG <b>3740.2</b>
<b>Cat. no.</b>	320 10	320 10	320 10
Screwdriver / Metal actuating tool BWMA	BWMA 1 (0.5x3.5mm) <b>3808.0</b>	BWMA 1 (0.5x3.5mm) <b>3808.0</b>	BWMA 1 (0.5x3.5mm) <b>3808.0</b>
<b>Cat. no.</b>	328 1	328 1	328 1
Quick marking PMC SB	PMC SB 5/50 WH <b>4600.7</b>	PMC SB 5/50 WH <b>4600.7</b>	PMC SB 5/50 WH <b>4600.7</b>
<b>Cat. no.</b>	339 500	339 500	339 500

ZSL 2.5/3A Ex	ZRK 2.5/4A Ex	ZSL 2.5/4A Ex		
Protective earth terminal 3 connections	Feed-through terminal 4 connections	Protective earth terminal 4 connections		
<b>Tension-spring</b> 71.3 x 5.1 x 39	<b>Tension-spring</b> 83.6 x 5.1 x 36.5	<b>Tension-spring</b> 83.6 x 5.1 x 36.5		
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>		
ZSL 2.5/3A Ex GNYE <b>1714.2</b> 100	ZRK 2.5/4A Ex BG <b>1706.2</b> 100 ZRK 2.5/4A Ex BU <b>1706.5</b> 100	ZSL 2.5/4A Ex GNYE <b>1715.2</b> 100		
	630 24			
TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0	TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0	TÜV ATEX 7093 U 2.5   20-12 8   3 A3   V0		
0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10	0.5-4   - 0.5-4   0.5-2.5 0.08-4 10		
PA 6.6   -40 to +120°C 0   2	PA 6.6   -40 to +120°C 2   2	PA 6.6   -40 to +120°C 0   2		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
ZAP 2.5/3A GN <b>3701.1</b> 280 50	ZAP 2.5/4A BG <b>3702.2</b> 280 50 ZQI 2.5/2 YE <b>3710.8</b> 308 50 ZQI 2.5/3 YE <b>3711.8</b> 308 50 ZQI 2.5/4 YE <b>3712.8</b> 308 20 ZQI 2.5/5 YE <b>3713.8</b> 308 20 ZQI 2.5/6 YE <b>3714.8</b> 308 20 ZQI 2.5/7 YE <b>3715.8</b> 308 20 ZQI 2.5/8 YE <b>3716.8</b> 308 10 ZQI 2.5/9 YE <b>3717.8</b> 308 10 ZQI 2.5/10 YE <b>3718.8</b> 308 10 ZQI 2.5/0.5 w/99 poles YE <b>3719.8</b> 308 1	ZAP 2.5/4A GN <b>3702.1</b> 280 50		
ZAD 2.5/4 B <b>3706.0</b> 315 20	ZAD 2.5/4 B YE <b>3706.0</b> 315 20	ZAD 2.5/4 B YE <b>3706.0</b> 315 20		
ZES 35 BG <b>3748.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ZES 35 BG <b>3748.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500	ZES 35 BG <b>3748.2</b> 275 50 ZTA 2.5 BG <b>3740.2</b> 320 10 BWMA 1 (0.5x3.5mm) <b>3808.0</b> 328 1 PMC SB 5/50 WH <b>4600.7</b> 339 500		

**Ex feed-through and protective-earth terminals certified by ATEX**

**Tension-spring connection system**



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

**Connection diagram**

ZRK 4/2A Ex	ZSL 4/2A Ex	ZRK 4/3A Ex
Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 3 connections

**Connection type**

Size (L x W x H) with TS 35 x 7.5 mm

**Type**

Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Type colour	
<b>Cat. no.</b>	
Type/colour	
<b>Cat. no.</b>	
Colours available	

**Ratings**

Rated voltage, V	
Rated current, A	
Partial certification number	
Rated wire cross-section, mm <sup>2</sup>   AWG	
Rated impulse voltage, kV   Contamination degree	
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	

**Connection data**

Single wire (solid)   stranded (stranded) mm <sup>2</sup>	
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	
Contact wire range, mm <sup>2</sup>	
Stripping length, mm	

**Features**

Material of insulated housing   Temperature range	
Number of cross-connection channels   Test pick-off	

**Accessories**

ZAP end plate	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Insulated cross-connector ZQI	
<b>Cat. no.</b>	
Four-way cover ZAD	
<b>Cat. no.</b>	
labelling adapter ZBA	
<b>Cat. no.</b>	
End stop ZES	
<b>Cat. no.</b>	
Test adapter ZTA	
<b>Cat. no.</b>	
Screwdriver / Metal actuating tool BWMA	
<b>Cat. no.</b>	
Quick marking PMC SB	
<b>Cat. no.</b>	

Tension-spring	Tension-spring	Tension-spring
64 x 6.1 x 42	64 x 6.1 x 42	78.5 x 6.1 x 42
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
ZRK 4/2A Ex BG <b>1716.2</b> 100	ZSL 4/2A Ex GNYE <b>1722.2</b> 100	ZRK 4/3A Ex BG <b>1717.2</b> 100
ZRK 4/2A Ex BU <b>1716.5</b> 100		ZRK 4/3A Ex BU <b>1717.5</b> 100
② ⑤	②	② ⑤
500		500
32		32
TÜV ATEX 7093 U	TÜV ATEX 7093 U	TÜV ATEX 7093 U
4   20-10	4   20-10	4   20-10
8   3	8   3	8   3
A4   V0	A4   V0	A4   V0
0.5-6   -	0.5-6   -	0.5-6   -
0.5-6   0.5-4	0.5-6   0.5-4	0.5-6   0.5-4
0.08-6	0.08-6	0.08-6
12	12	12
PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
2   2	-   2	2   2
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
ZAP 4/2A BG <b>3703.2</b> 280 50	ZAP 4/2A GN <b>3703.1</b> 280 50	ZAP 4/3A BG <b>3704.2</b> 280 50
ZQI 4/2 YE <b>3720.8</b> 308 50		ZQI 4/2 YE <b>3720.8</b> 308 50
ZQI 4/3 YE <b>3721.8</b> 308 50		ZQI 4/3 YE <b>3721.8</b> 308 50
ZQI 4/4 YE <b>3722.8</b> 308 20		ZQI 4/4 YE <b>3722.8</b> 308 20
ZQI 4/5 YE <b>3723.8</b> 308 20		ZQI 4/5 YE <b>3723.8</b> 308 20
ZQI 4/6 YE <b>3724.8</b> 308 20		ZQI 4/6 YE <b>3724.8</b> 308 20
ZQI 4/7 YE <b>3725.8</b> 308 20		ZQI 4/7 YE <b>3725.8</b> 308 20
ZQI 4/8 YE <b>3726.8</b> 308 10		ZQI 4/8 YE <b>3726.8</b> 308 10
ZQI 4/9 YE <b>3727.8</b> 308 10		ZQI 4/9 YE <b>3727.8</b> 308 10
ZQI 4/10 YE <b>3728.8</b> 308 10		ZQI 4/10 YE <b>3728.8</b> 308 10
ZAD 4/4/B YE <b>3707.0</b> 315 20	ZAD 4/4/B YE <b>3707.0</b> 315 20	ZAD 4/4/B YE <b>3707.0</b> 315 20
ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50	ZES 35 BG <b>3748.2</b> 275 50
ZTA 4 <b>3741.2</b> 320 10	ZTA 4 <b>3741.2</b> 320 10	ZTA 4 <b>3741.2</b> 320 10
SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1
PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500	PMC SB 6/50 WH <b>4702.7</b> 340 500

More accessories starting on page 264.

ZSL 4/3A Ex	ZRK 4/4A Ex	ZSL 4/4A Ex		
Protective earth terminal 3 connections	Feed-through terminal 4 connections	Protective earth terminal 4 connections		
<b>Tension-spring</b>	<b>Tension-spring</b>	<b>Tension-spring</b>		
78.5 x 6.1 x 42	93 x 6.1 x 42	93 x 6.1 x 42		
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>		
ZSL 4/3A Ex GNYE <b>1723.2</b> 100	ZRK 4/4A Ex BG <b>1718.2</b> 100 ZRK 4/4A Ex BU <b>1718.5</b> 100	ZSL 4/4A Ex GNYE <b>1724.2</b> 100		
	500 32			
TÜV ATEX 7093 U 4   20-10 8   3 A4   V0	TÜV ATEX 7093 U 4   20-10 8   3 A4   V0	TÜV ATEX 7093 U 4   20-10 8   3 A4   V0		
0.5-6   - 0.5-6   0.5-4 0.08-6 12	0.5-6   - 0.5-6   0.5-4 0.08-6 12	0.5-6   - 0.5-6   0.5-4 0.08-6 12		
PA 6.6   -40 to +120°C -   2	PA 6.6   -40 to +120°C 2   2	PA 6.6   -40 to +120°C -   2		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
ZAP 4/3A GN <b>3704.1</b> 280 50	ZAP 4/4A BG <b>3705.2</b> 280 50 ZQI 4/2 YE <b>3720.8</b> 308 50 ZQI 4/3 YE <b>3721.8</b> 308 50 ZQI 4/4 YE <b>3722.8</b> 308 20 ZQI 4/5 YE <b>3723.8</b> 308 20 ZQI 4/6 YE <b>3724.8</b> 308 20 ZQI 4/7 YE <b>3725.8</b> 308 20 ZQI 4/8 YE <b>3726.8</b> 308 10 ZQI 4/9 YE <b>3727.8</b> 308 10 ZQI 4/10 YE <b>3728.8</b> 308 10 ZAD 4/4/B YE <b>3707.0</b> 315 20	ZAP 4/4A GN <b>3705.1</b> 280 50		
ZES 35 BG <b>3748.2</b> 275 50 ZTA 4 <b>3741.2</b> 320 10 SDB 0.6x3.5 <b>1086.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	ZES 35 BG <b>3748.2</b> 275 50 ZTA 4 <b>3741.2</b> 320 10 SDB 0.6x3.5 <b>1086.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500	ZES 35 BG <b>3748.2</b> 275 50 ZTA 4 <b>3741.2</b> 320 10 SDB 0.6x3.5 <b>1086.0</b> 422 1 PMC SB 6/50 WH <b>4702.7</b> 340 500		

**Ex feed-through and protective-earth terminals certified by ATEX**

**Tension-spring connection system**



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

**Connection diagram**

ZRK 6/2A Ex	ZSL 6/2A Ex	ZRK 10/2A Ex
Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 2 connections

Connection type	Tension-spring	Tension-spring	Tension-spring
Size (L x W x H) with TS 35 x 7.5 mm	93 x 6.1 x 42	93 x 6.1 x 42	73.5 x 10.1 x 50.5
<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Type colour	ZRK 6/2A Ex BG	ZSL 6/2A Ex GNYE	ZRK 10/2A Ex BG
<b>Cat. no.</b>	<b>1719.2</b>	<b>1725.2</b>	<b>1720.2</b>
Type colour	ZRK 6/2A Ex BU		ZRK 10/2A Ex BU
<b>Cat. no.</b>	<b>1719.5</b>		<b>1720.5</b>
Type colour			
<b>Cat. no.</b>			
Type/colour			
<b>Cat. no.</b>			
Colours available	② ⑤	②	② ⑤
<b>Ratings</b>			
Rated voltage, V	630		500
Rated current, A	41		57
Partial certification number	TÜV ATEX 7093 U	TÜV ATEX 7093 U	TÜV ATEX 7093 U
Rated wire cross-section, mm <sup>2</sup>   AWG	6   20-8	6   20-8	10   16-6
Rated impulse voltage, kV   Contamination degree	8   3	8   3	8   3
Plug gauge acc. to EN 60 947-1   Flamm. class acc. to UL 94	A5   V0	A5   V0	B6   V0
<b>Connection data</b>			
Single wire (solid)   stranded (stranded) mm <sup>2</sup>	0.5-10   -	0.5-10   -	1.5-16   1.5-16
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm <sup>2</sup>	0.5-10   0.5-6	0.5-10   0.5-6	1.5-10   1.5-10
Contact wire range, mm <sup>2</sup>	0.5-10	0.5-10	1.5-16
Stripping length, mm	13	13	18
<b>Features</b>			
Material of insulated housing   Temperature range	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C	PA 6.6   -40 to +120°C
Number of cross-connection channels   Test pick-off	1   2	-   2	2   2
<b>Accessories</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
ZAP end plate	ZAP 6/2A BG	ZAP 6/2A GN	ZAP 10/2A BG
<b>Cat. no.</b>	<b>3760.2</b>	<b>3760.1</b>	<b>3788.2</b>
Insulated cross-connector ZQI	ZQI 6/2 YE		ZQI 10/2 YE
<b>Cat. no.</b>	<b>3763.8</b>		<b>3789.8</b>
Insulated cross-connector ZQI	ZQI 6/3 YE		
<b>Cat. no.</b>	<b>3764.8</b>		
Insulated cross-connector ZQI	ZQI 6/4 YE		
<b>Cat. no.</b>	<b>3765.8</b>		
Insulated cross-connector ZQI	ZQI 6/5 YE		
<b>Cat. no.</b>	<b>3766.8</b>		
Insulated cross-connector ZQI	ZQI 6/6 YE		
<b>Cat. no.</b>	<b>3767.8</b>		
Insulated cross-connector ZQI	ZQI 6/7 YE		
<b>Cat. no.</b>	<b>3768.8</b>		
Insulated cross-connector ZQI	ZQI 6/8 YE		
<b>Cat. no.</b>	<b>3769.8</b>		
Insulated cross-connector ZQI	ZQI 6/9 YE		
<b>Cat. no.</b>	<b>3770.8</b>		
Insulated cross-connector ZQI	ZQI 6/10 YE		
<b>Cat. no.</b>	<b>3771.8</b>		
Insulated cross-connector ZQI			
<b>Cat. no.</b>			
Four-way cover ZAD	ZAD 6/4/B YE	ZAD 6/4/B YE	ZAD 10/4/B YE
<b>Cat. no.</b>	<b>3708.0</b>	<b>3708.0</b>	<b>3709.0</b>
labelling adapter ZBA			
<b>Cat. no.</b>			
End stop	ZES 35 BG	ZES 35 BG	ZES 35 BG
<b>Cat. no.</b>	<b>3748.2</b>	<b>3748.2</b>	<b>3748.2</b>
Test adapter ZTA	ZTA 6	ZTA 6	ZTA 10
<b>Cat. no.</b>	<b>3772.2</b>	<b>3772.2</b>	<b>3790.2</b>
Screwdriver / Metal actuating tool BWMA	SDB 0.8x4.0	SDB 0.8x4.0	SDB 1.2x6.5
<b>Cat. no.</b>	<b>1087.0</b>	<b>1087.0</b>	<b>1088.0</b>
Quick marking PMC SB	PMC SB 8/40 WH	PMC SB 8/40 WH	PMC SB 8/40 WH
<b>Cat. no.</b>	<b>9323.7</b>	<b>9323.7</b>	<b>9323.7</b>

More accessories starting on page 264.

ZSL 10/2A Ex	ZRK 16/2A Ex	ZSL 16/2A Ex		
Protective earth terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections		
<b>Tension-spring</b>	<b>Tension-spring</b>	<b>Tension-spring</b>		
73.5 x 10.1 x 50.5	81.5 x 12 x 51.5	81.5 x 12 x 51.5		
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>		
ZSL 10/2A Ex GNYE <b>1726.2</b> 50	ZRK 16/2A Ex BG <b>1721.2</b> 50 ZRK 16/2A Ex BU <b>1721.5</b> 50	ZSL 16/2A Ex GNYE <b>1727.2</b> 50		
	630 76			
TÜV ATEX 7093 U 10   16-6 8   3 B6   V0	TÜV ATEX 7093 U 16   14-4 8   3 B7   V0	TÜV ATEX 7093 U 16   14-4 8   3 B7   V0		
1.5-16   1.5-16 1.5-10   1.5-10 1.5-16 18	1.5-16   1.5-25 1.5-16   1.5-16 1.5-16 18	1.5-16   1.5-16 1.5-10   1.5-10 1.5-16 18		
PA 6.6   -40 to +120°C -   2	PA 6.6   -40 to +120°C 2   2	PA 6.6   -40 to +120°C -   2		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
ZAP 10/2A GN <b>3788.1</b> 281 20	ZAP 16/2A BG <b>3799.2</b> 281 20 ZQI 16/2 YE <b>3800.8</b> 309 20	ZAP 16/2A GN <b>3799.1</b> 281 20		
ZAD 10/4/B YE <b>3709.0</b> 315 20	ZAD 16/4/B YE <b>3801.0</b> 315 20	ZAD 16/4/B YE <b>3801.0</b> 315 20		
ZES 35 BG <b>3748.2</b> 275 50 ZTA 10 <b>3790.2</b> 321 10 SDB 1.2x6.5 <b>1088.0</b> 422 1 PMC SB 8/40 WH <b>9323.7</b> 342 500	ZES 35 BG <b>3748.2</b> 275 50 ZTA 16 <b>3810.2</b> 321 10 SDB 1.2x6.5 <b>1088.0</b> 422 1 PMC SB 8/40 WH <b>9323.7</b> 342 500	ZES 35 BG <b>3748.2</b> 275 50 ZTA 16 <b>3810.2</b> 321 10 SDB 1.2x6.5 <b>1088.0</b> 422 1 PMC SB 8/40 WH <b>9323.7</b> 342 500		

**Ex double-level and protective earth double level terminals certified according to ATEX**

**Tension-spring connection system**



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

**Connection type**

Size (L x W x H) with TS 35 x 7,5 (H with labelling adapter), in mm

**Type**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type colour

**Cat. no.**

Type/colour

**Cat. no.**

Colours available

**Ratings**

Rated voltage, V

Rated current, A

Partial certification number

Rated wire cross-section, mm<sup>2</sup> | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

**Connection data**

Single wire (solid) | stranded (stranded) mm<sup>2</sup>

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm<sup>2</sup>

Contact wire range, mm<sup>2</sup>

Stripping length, mm

**Features**

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

**Accessories**

ZAP end plate

**Cat. no.**

Insulated cross-connector ZQI

**Cat. no.**

Four-way cover ZAD

**Cat. no.**

labelling adapter ZBA

**Cat. no.**

End stop

**Cat. no.**

Test adapter ZTA

**Cat. no.**

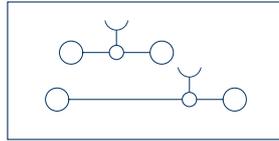
Screwdriver / Metal actuating tool BWMA

**Cat. no.**

Quick marking PMC SB

**Cat. no.**

**ZRKD 2.5 Ex**



Double-level terminal  
4 connections

**Tension-spring**

83.6 x 5.1 x 53 (64)

**Qty.**

ZRKD 2.5 Ex BG

**1707.2** 100

ZRKD 2.5 Ex BU

**1707.5** 100

② ⑤

500

24

TÜV ATEX 7093 U

2.5 | 20-12

6 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

PA 6.6 | -40 to +120°C

2 | 4

**Page Qty.**

ZAPD 2.5 BG

**3756.2** 281 20

ZQI 2.5/2 YE

**3710.8** 308 50

ZQI 2.5/3 YE

**3711.8** 308 50

ZQI 2.5/4 YE

**3712.8** 308 20

ZQI 2.5/5 YE

**3713.8** 308 20

ZQI 2.5/6 YE

**3714.8** 308 20

ZQI 2.5/7 YE

**3715.8** 308 20

ZQI 2.5/8 YE

**3716.8** 308 10

ZQI 2.5/9 YE

**3717.8** 308 10

ZQI 2.5/10 YE

**3718.8** 308 10

ZQI 2.5/0.5 w/99 poles YE

**3719.8** 308 1

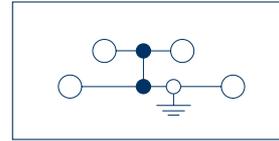
ZAD 2.5/4/B YE

**3706.0** 315 20

ZBA 1 BG

**3745.2** 314 20

**ZSLD 2.5 Ex**



Protective earth terminal  
4 connections

**Tension-spring**

83.6 x 5.1 x 53

**Qty.**

ZSLD 2.5 Ex GNYE

**1728.2** 100

②

500

24

TÜV ATEX 7093 U

2.5 | 20-12

6 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

PA 6.6 | -40 to +120°C

- | 4

**Page Qty.**

ZAPD 2.5 GN

**3756.1** 281 20

ZAD 2.5/4/B YE

**3706.0** 315 20

ZBA 1 BG

**3745.2** 314 20

ZES 35 BG

**3748.2** 275 50

ZTA 2.5 BG

**3740.2** 320 10

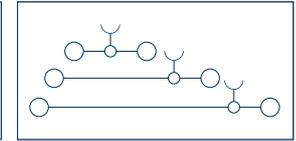
BWMA 1 (0.5x3.5mm)

**3808.0** 328 1

PMC SB 5/50 WH

**4600.7** 339 500

**ZIKD 2.5 Ex**



Three-level terminal  
6 connections

**Tension-spring**

116.2 x 5 x 68

**Qty.**

ZIKD 2.5 Ex BG

**1708.2** 100

ZIKD 2.5 Ex BU

**1708.5** 100

② ⑤

500

24

TÜV ATEX 7093 U

2.5 | 20-12

6 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

PA 6.6 | -40 to +120°C

3 | 6

**Page Qty.**

ZAP/ID 2.5 BG

**3761.2** 281 20

ZQI 2.5/2 YE

**3710.8** 308 50

ZQI 2.5/3 YE

**3711.8** 308 50

ZQI 2.5/4 YE

**3712.8** 308 20

ZQI 2.5/5 YE

**3713.8** 308 20

ZQI 2.5/6 YE

**3714.8** 308 20

ZQI 2.5/7 YE

**3715.8** 308 20

ZQI 2.5/8 YE

**3716.8** 308 10

ZQI 2.5/9 YE

**3717.8** 308 10

ZQI 2.5/10 YE

**3718.8** 308 10

ZQI 2.5/0.5 w/99 poles YE

**3719.8** 308 1

ZAD 2.5/4/B YE

**3706.0** 315 20

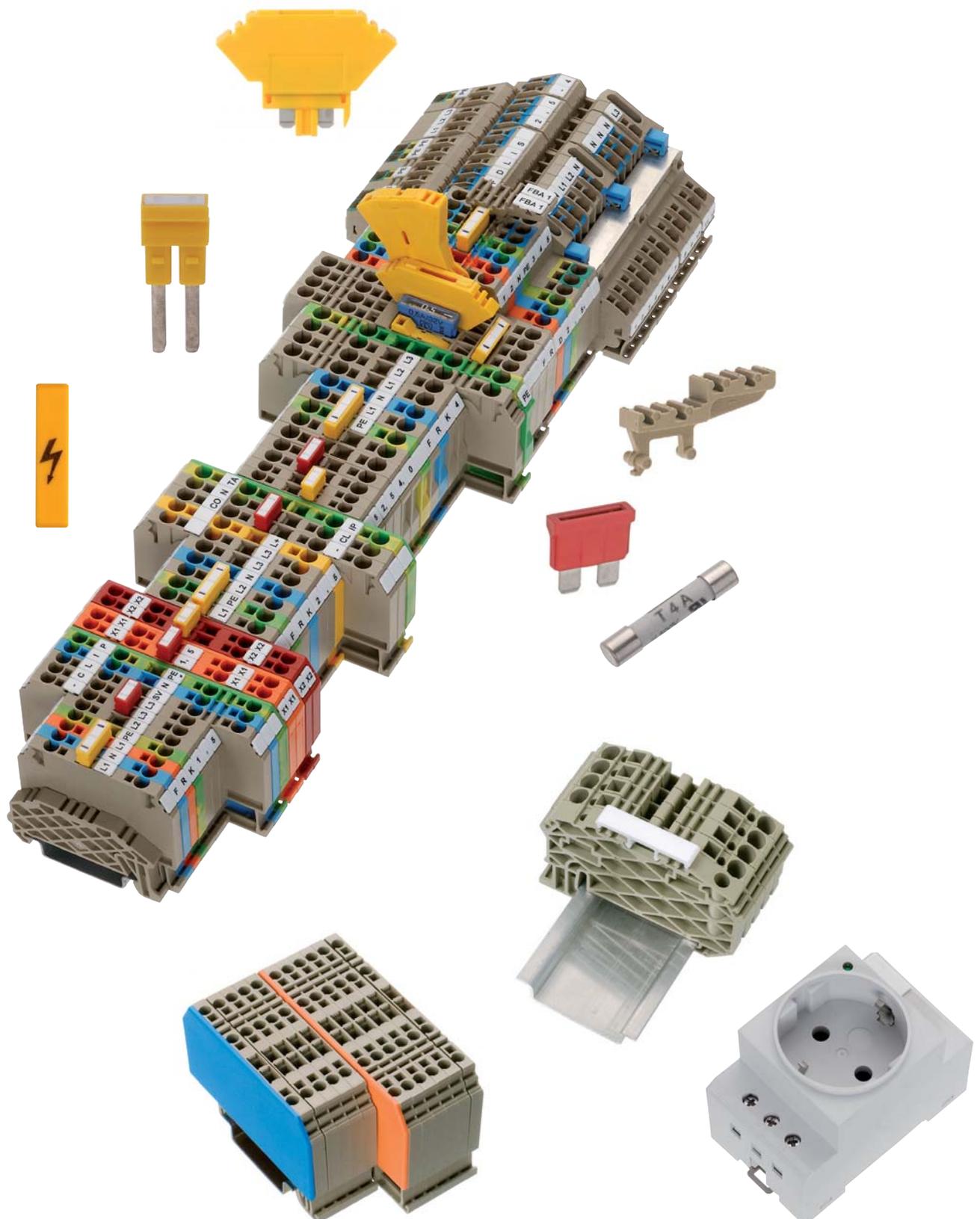
ZBA 3 BG

**3813.2** 314 50



## General accessories for CONTA-CONNECT

The **CONTA-CLIP** line of accessories is conceived and designed with the customer in mind. Our accessories allow you to move forward on a great number of technical applications with a minimum of effort and parts.



## General accessories for CONTA-CONNECT

### Overview

#### DIN rails

A wide variety of DIN rails are available, in two-meter sections or pre-cut as required. They vary in shape, size and material. They fit on various rail types ((C profile TS 32, Automatic profile TS 35, compact rail TS 15), are made from steel, copper or PVC, and are available in slotted or unslotted versions.



#### End stops | End supports

End stops are necessary for preventing movement of components along the rail. They are put in at the beginning and at the end of the rail assembly. Depending on the DIN rail, they differ in the dimensions of the mounting foot and their screw-on or snap-on design. End stops can also be used to hold a variety of group marker holders. An end support with screw flange or snap-in clip ensures that the terminal block is securely attached to the mounting plates.



#### Group marker holders

Group marker holders allow you to clearly label terminal strip configurations. They are available in a variety of versions. Adhesive labels, paper strips or standard terminal markers are used for the labelling.



#### End plates | Visual separation

End plates are normally attached to the end or to the transition from a larger to a smaller terminal block. They ensure that there is enough insulation (touch protection) for the current-carrying section.



## General accessories for CONTA-CONNECT

### Overview

#### Cross-connectors

Cross-connectors save you time when distributing similar potentials or signals in a large number of electrical connections. They are either pluggable or screwable and are available with from 2 to 99 poles. The terminal block design and the variability of the cross-connector ensure excellent flexibility.



#### External cross-connector

External cross-connection bridges make it possible to branch off the current for terminal blocks which do not have a cross-connection channel or when an additional potential needs to be cross-connected. The attachment is at the clamping point of the terminal. As a result, the rated cross-section of the terminal block must be reduced to the next smallest wire cross-section.



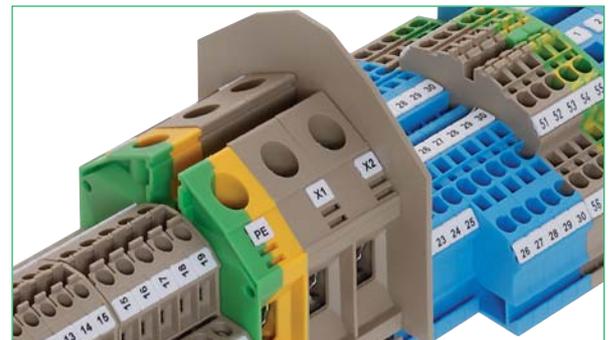
#### Covers

VDE regulations require that the mains connection terminals are mounted before the main switch be covered. The yellow covers (labelled with a lightning flash) are used to cover the cross-connection and operational channels. Thus they discourage operation of the terminal while live voltage is present.



#### Partition plates

Partition plates are attached within a terminal strip assembly so that there is a clear visual separation of the different voltage levels. When used, they also serve to extend the creepage and clearance distances (increased rated voltage).



#### Testing and inspecting

A direct measurement can be carried out at the busbar on the screw-connection terminal by using a **PS** test plug and attaching a socket plug. The test adapters can be assembled to any pole counts using the locking pegs. They can be used to test assembled terminal blocks in a quick and safe manner.



## General accessories for CONTA-CONNECT

### Overview

#### Reducing sleeves

The **ZRH** tension-spring reducing sleeves allow you to securely attach a small wire in a terminal point without splaying off the individual strands.



#### Fuse holders

The plug-in fuse holders are available as models with or without a status display. When used together with the base terminals, they provide excellent flexibility, ease of use, and a large variety in the 5x20 mm micro-fuse range.



#### Fuse cartridges

G fuses are available in the 5 x 20 mm and 6.3 x 32 mm sizes, and in the “slow-acting” and “fast” versions. They are used with the **STK/SIK/SK/ZTRK** fused terminals and fuse-disconnect terminals. Additional auto-fuses, in compliance with DIN 72581, are available for fused terminal blocks in pressure-spring and tension-spring connection systems.



#### Specific accessories, test-disconnect terminals PTK

In addition to the standard accessories, the test-disconnect terminal product line includes many special articles. Internal and external cross-switch bridges, socket plugs and short-circuit plugs, for example, are required for constructing a secure terminal strip unit for measurement circuit applications.



#### Actuating tools

The fully-insulated **BW 1** to **BW 10** tools and the **BWMA** metallic tools can be used to actuate the pressure springs and tension springs in terminal blocks with cross-sections of 2.5 mm<sup>2</sup>.



## TS DIN rails

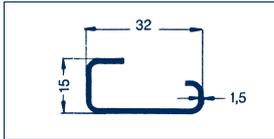
### DIN rails TS 32 / TS 35

The design of the **TS** DIN rail complies with the European norm DIN EN 60715. The steel DIN rail is galvanized and has a coating of blue chromate that is at least 10 µm thick. We place extra importance on maintaining a high degree of dimensional accuracy. The steel DIN rails can be used as protective-earth busbars (with PE function) in compliance with DIN VDE 0611 part 3. Please note the following when using the rail as a PEN busbar:

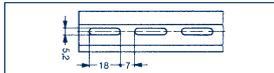
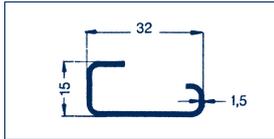
- Only one E-Cu rail should be used.
- The short-circuit currents and the rated thermal currents must be observed.

The DIN rails are delivered in standard lengths of 2 meters. All DIN rails are also available in prepared (cut to length) versions, but all types are available pre-cut to customers requirements.

#### TS 32



#### TS 32



Type	Qty.
Type Cat. no.	TS 32 <b>2025.0</b> 2 m

Type/colour  
Cat. no.

Features	Qty.
Material	Steel
Processing	unslotted

--	--

Type	Qty.
Type Cat. no.	TS 32 <b>2093.0</b> 2 m

Features	Qty.
Material	Steel
Processing	slotted 5.2 x 18

--	--

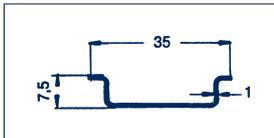
Type	Qty.
Type Cat. no.	TS 32 <b>2093.0</b> 2 m

Features	Qty.
Material	Steel
Processing	slotted 5.2 x 18

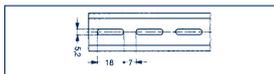
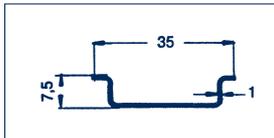
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### DIN rails TS 35

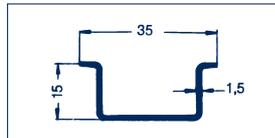
#### TS 35



#### TS 35



#### TS 35



Type	Qty.
Type Cat. no.	TS 35 x 7.5 galvanized <b>4562.0</b> 2 m

Type/colour  
Cat. no.

Features	Qty.
Material	Galvanized steel
Processing	unslotted

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Type	Qty.
Type Cat. no.	TS 35 x 7.5 galvanized <b>4563.0</b> 2 m

Features	Qty.
Material	Galvanized steel
Processing	slotted 5.2 x 18

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Type	Qty.
Type Cat. no.	TS 35 x 7.5 galvanized <b>4563.0</b> 2 m

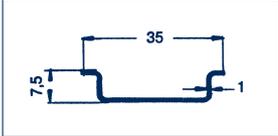
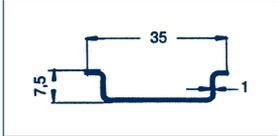
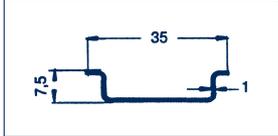
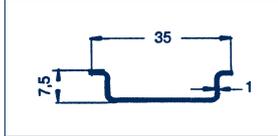
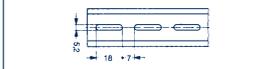
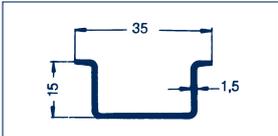
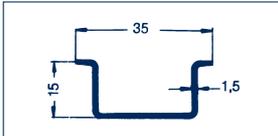
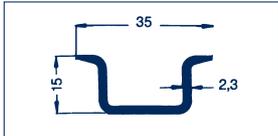
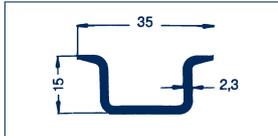
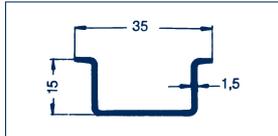
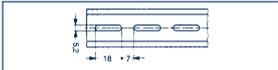
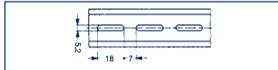
Features	Qty.
Material	Galvanized steel
Processing	slotted 5.2 x 18

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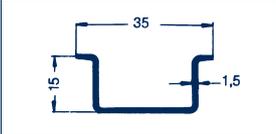
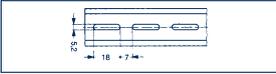
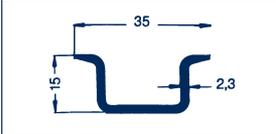
Type	Qty.
Type Cat. no.	TS 35 x 15 <b>2027.0</b> 2 m

Features	Qty.
Material	Steel
Processing	unslotted

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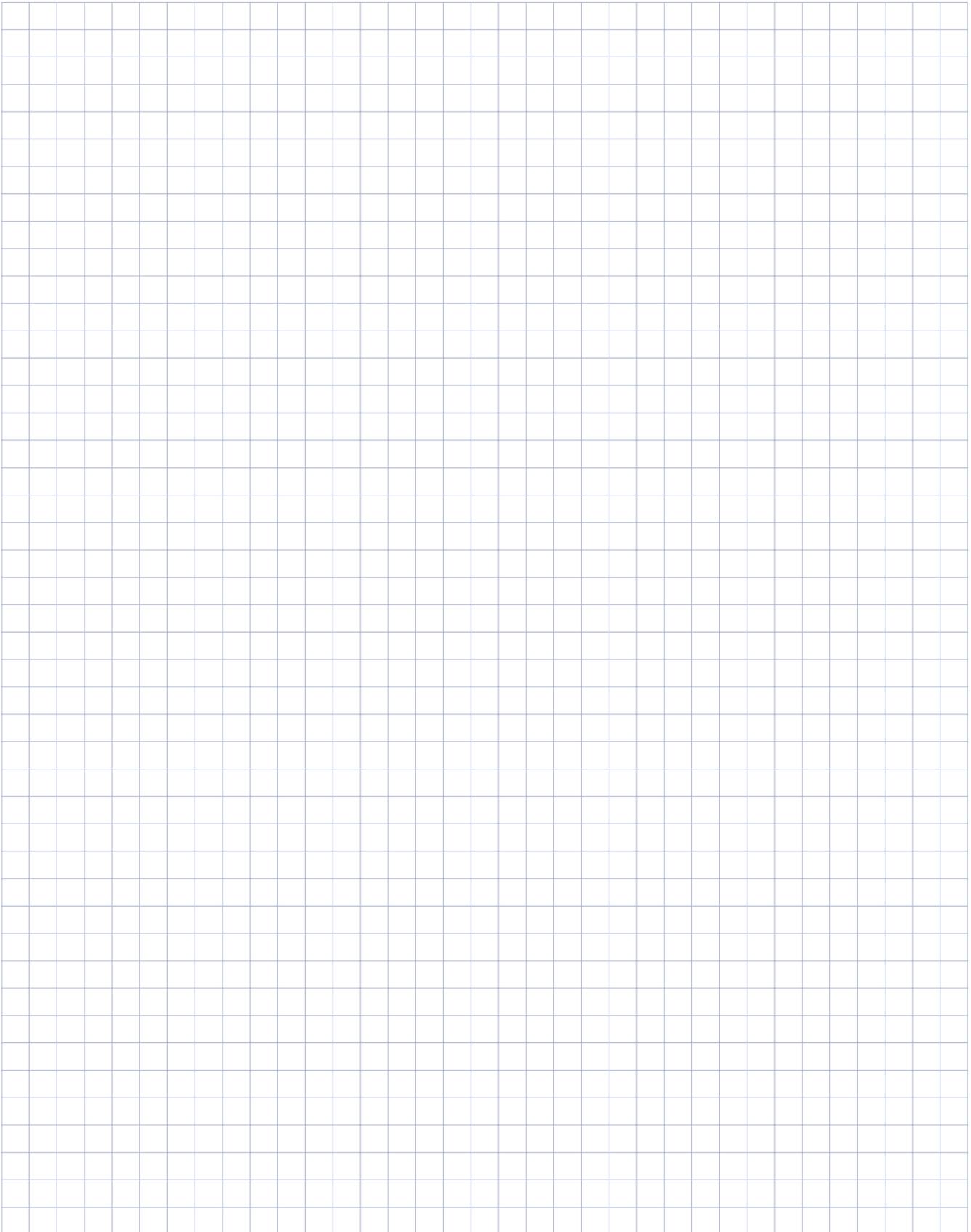
TS 35	TS 35	TS 35	TS 35	
				
				
				
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
TS 35 x 7.5 <b>2026.0</b> 2 m	TS 35 x 7.5 <b>2094.0</b> 2 m	TS 35 x 7.5 <b>2704.0</b> 2 m	TS 35 x 7.5 ALU <b>2710.0</b> 2 m	
Steel unslotted	Steel slotted 5.2 x 18	Steel slotted 6,2 x 18	Aluminium unslotted	
TS 35	TS 35	TS 35	TS 35	TS 35
				
				
				
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
TS 35 x 15 <b>2095.0</b> 2 m	TS 35 x 15 <b>4566.0</b> 2 m	TS 35 x 15/2.3 <b>2038.0</b> 2 m	TS 35 x 15/2.3 <b>2039.0</b> 2 m	TS 35 x 15 galvanized <b>4561.0</b> 2 m
Steel slotted 5.2 x 18	Steel slotted 6.2 x 18	Steel unslotted	Steel slotted 5.2 x 18	Galvanized steel unslotted

## TS DIN rails

DIN rails TS 35	TS 35	TS 35	
<p>The design of the <b>TS</b> DIN rail complies with the European norm DIN EN 60715. The steel DIN rail is galvanized and has a coating of blue chromate that is at least 10 µm thick. We place extra importance on maintaining a high degree of dimensional accuracy. The steel DIN rails can be used as protective-earth busbars (with PE function) in compliance with DIN VDE 0611 part 3. Please note the following when using the rail as a PEN busbar:</p> <ul style="list-style-type: none"> <li>• Only one E-Cu rail should be used.</li> <li>• The short-circuit currents and the rated thermal currents must be observed.</li> </ul> <p>The DIN rails are delivered in standard lengths of 2 meters. All DIN rails are also available in prepared (cut to length) versions, but all types are available pre-cut to customers requirements.</p>	  	  	
<b>Type</b> Type <b>Cat. no.</b> Type/colour <b>Cat. no.</b>	<b>Qty.</b> TS 35 x 15 galvanized <b>4564.0</b> 2 m	<b>Qty.</b> TS 35 x 15 PVC <b>2372.0</b> 2 m	
<b>Features</b> Material Processing	Galvanized steel slotted 5.2 x 18	PVC unslotted	

Rails / protective earth / busbars according to DIN VDE 0611, part 3						
Type	Cat. no.	Material	Short-circuit resistance	Max. short-circuit current KA	Max. allowed thermal rated current, with PEN function	
TS 32	<b>2025.0</b>	Steel	35	4.2	*	
TS 32 slotted	<b>2093.0</b>	Steel	35	4.2	*	
TS 35 x 7.5	<b>2026.0</b>	Steel	16	1.92	*	
TS 35 x 7.5 slotted	<b>2094.0</b>	Steel	16	1.92	*	
TS 35 x 7.5	<b>2704.0</b>	Steel	16	1.92	*	
TS 35 x 7.5	<b>4562.0</b>	Galvanized steel	16	1.92	*	
TS 35 x 7.5 slotted	<b>4563.0</b>	Galvanized steel	16	1.92	*	
TS 35 x 7.5	<b>2710.0</b>	Aluminium	35	4.2	105	
TS 35 x 15	<b>2027.0</b>	Steel	25	3.0	*	
TS 35 x 15	<b>4561.0</b>	Galvanized steel	25	3.0	*	
TS 35 x 15 slotted	<b>2095.0</b>	Steel	25	3.0	*	
TS 35 x 15 slotted	<b>4566.0</b>	Steel	25	3.0	*	
TS 35 x 15/2.3	<b>2038.0</b>	Steel	50	6.0	*	
TS 35 x 15/2.3, slotted	<b>2039.0</b>	Steel	50	6.0	*	
TS 15	<b>2091.0</b>	Steel	10	1.2	*	
TS 15 slotted	<b>2092.0</b>	Steel	10	1.2	*	
TS 15	<b>2711.0</b>	Aluminium	16	1.92	81	
TS 15 slotted	<b>2378.0</b>	Aluminium	16	1.92	82	

\* Use of protective earth steel busbars is not permitted for PEN functionality!







End stops | End supports

End stops TS 35		ES 35	ES 35/2/K	ES 35/K/ST
<p>End stops are necessary for preventing movement of components along the rail. They are put in at the beginning and at the end of the rail assembly. Depending on the DIN rail, they differ in the dimensions of the mounting foot and their screw-on or snap-on design.</p>				
		Screw end stop	Screw end stop	Screw end stop
<b>Dimensions</b>				
Dimensions (LxWxH), mm		46 x 7.5 x 32	50 x 8 x 47	50 x 9.5 x 44
<b>Type</b>				
Type		ES 35 BG	ES 35/2/K BG	ES 35/K/ST BG
<b>Cat. no.</b>		<b>2005.2</b>	<b>2826.2</b>	<b>2828.0</b>
<b>Features</b>				
Material		PA 6.6 V2	PA 6.6 V2	PA 6.6 V2
DIN rails		TS 35	TS 35	TS 35
Terminal width, mm		7.5	8	9,5
<b>End stops TS 32</b>		<b>ES 32</b>	<b>ES 32/2/K</b>	<b>ES 32/2K/ST</b>
				
		Screw end stop	Screw end stop	Screw end stop
<b>Dimensions</b>				
Dimensions (LxWxH), mm		27 x 7.5 x 44	48 x 8 x 49	50 x 9.5 x 44
<b>Type</b>				
Type		ES 32 BG	ES 32/2/K BG	ES 32/K/ST BG
<b>Cat. no.</b>		<b>2004.2</b>	<b>2825.2</b>	<b>2827.0</b>
<b>Features</b>				
Material		PA 6.6 V2	PA 6.6 V2	PA 6.6 V2
DIN rails		TS 32	TS 32	TS 32
Terminal width, mm		7.5	8	9.5
<b>End support for BKA / KBL</b>		<b>EH 1</b>	<b>EH 2</b>	<b>EH 2-Z</b>
				
		Screw end support	Screw end support	screwless End support
<b>Dimensions</b>				
Dimensions (LxWxH), mm		22 x 7 x 21	22 x 7 x 23	22 x 5 x 23
<b>Type</b>				
Type		EH 1 BG	EH 2 BG	EH 2-Z BG
<b>Cat. no.</b>		<b>2135.2</b>	<b>2136.2</b>	<b>2147.2</b>
<b>Features</b>				
Material		PA 6.6 V2	PA 6.6 V2	PA 6.6 V2
Mounting		Direct mounting	Direct mounting	Direct mounting
Terminal width, mm		7	7	5
Hole diameter, mm		3.5	3.5	-
<b>For terminal</b>		RKB 4	BKA 2,5 BKA 4	BKA 2,5 BKA 4

<b>ES 32/35</b>	<b>HES 35 ST</b>	<b>ZES 35</b>	<b>ZES 35/2</b>	
				
Screw end stop	Screw end stop	Screwless end stop	Screwless end stop	
52 x 9,5 x 47	49 x 11 x 69	59 x 6 x 39	49 x 5 x 34	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ES 32/35 BG <b>1424.2</b>	HES 35/ST BG <b>2761.0</b>	ZES 35 BG <b>3748.2</b>	ZES 35/2 BG <b>3811.2</b>	
50	50	50	50	
PA 6.6 V2	Steel	PA 6.6 V2	PA 6.6 V2	
TS 35 / TS 32	TS 35	TS 35	TS 35	
9,5	11	6	5	
<b>ES 32/35</b>	<b>HES 32 ST</b>	<b>End stops TS 15</b>	<b>ES 15</b>	<b>ZES 15</b>
				
Screw end stop	Screw end stop		Screw end stop	Screwless end stop
52 x 9,5 x 47	49 x 11 x 69	Dimensions (L x W x H), mm	26 x 7,5 x 22	27 x 5 x 24
<b>Qty.</b>	<b>Qty.</b>	<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>
ES 32/35 BG <b>1424.2</b>	HES 32/ST BG <b>2760.0</b>	Type	ES 15 BG <b>2074.2</b>	ZES 15 BG <b>3812.2</b>
50	50	<b>Cat. no.</b>	50	50
PA 6.6 V2	Steel	<b>Features</b>	PA 6.6 V2	PA 6.6 V2
TS 35 / TS 32	TS 32	Material	TS 15	TS 15
9,5	11	DIN rails	7,5	5
		Terminal width, mm		
<b>EH 3</b>	<b>EH 4</b>	<b>EH 15 BKA</b>	<b>EH 35 BKA</b>	<b>ZEH 1</b>
				
Screw end support	Screw end support	Screw end support	Screw end support	Screw end support
30 x 8 x 31	46 x 8 x 36	31 x 9 x 28	46 x 8 x 39	40 x 11,1 x 24
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ES 3 BG <b>2939.2</b>	EH 4 BG <b>2180.2</b>	EH 15 BKA BG <b>2945.2</b>	EH 35 BKA BG <b>2946.2</b>	ZEH 1 BG <b>3759.2</b>
50	50	50	50	
PA 6.6 V2	PA 6.6 V2	PA 6.6 V2	PA 6.6 V2	PA 6.6 V0
Direct mounting	Direct mounting	TS 15	TS 35	Direct mounting
8	8	9	8	11.1
3,5	3,5	-	-	3,5
BKA 10	KBL 2,5D KBL 2,5-4D KBL 6-10D	BKA 2,5 BKA 4	BKA 10	ZSRK... ZSLN...

## Marker holders for terminal blocks and end stops

### Marker holders for terminal blocks and end stops

These marker holders provide a solution for marking a group of terminals or devices on the DIN rail.

The marker holders are available for attaching to terminal blocks and end stops.

The GT1 and GT2 group marker holders can be attached directly to the DIN rail. Depending on the type, they can be marked with SB and AS terminal markers. Custom marking is possible with BS-1 pen or EMS-2 plotter.

Material: Polyamide 6.6 V2, halogen-free

Marker holders for terminal blocks and end stops		SchT 4/8 - SchT 6/12		SchT 7		ZSchT1		
<p>These marker holders provide a solution for marking a group of terminals or devices on the DIN rail.</p> <p>The marker holders are available for attaching to terminal blocks and end stops.</p> <p>The GT1 and GT2 group marker holders can be attached directly to the DIN rail. Depending on the type, they can be marked with SB and AS terminal markers. Custom marking is possible with BS-1 pen or EMS-2 plotter.</p> <p>Material: Polyamide 6.6 V2, halogen-free</p>		 <p>Hinged marker holder for terminal block and end stop</p>		 <p>Hinged marker holder for terminal block and end stop</p>		 <p>Hinged marker holder for terminal block and end stop</p>		
<b>Type</b>			<b>Qty.</b>		<b>Qty.</b>		<b>Qty.</b>	
Type/colour	SchT 4/8 *1		100	SchT 7, short joint	100	ZSchT 1	100	
Cat. no.	<b>2528.0</b>			<b>2504.0</b>		<b>3773.0</b>		
Type/colour	SchT 6/12 *2		100	SchT 7, long joint	100		100	
Cat. no.	<b>2529.0</b>			<b>2361.0</b>				
Colours available	②			②		②		
<b>Characteristics</b>								
<b>Dimensions</b>								
Width, mm	5			8.5		8.5		
<b>Material</b>								
Material	PA6.6, halogen-free			PA6.6, halogen-free		PA6.6, halogen-free		
Temperature range	-40 °C to +105°C			-40 °C to +105°C		-40°C to +105°C		
Flamm. class acc. to UL 94	V2			V2		V2		
<b>Application</b>								
Terminal blocks	≥ 5 mm			≥ 5 mm		≥ 5 mm		
End stop	All types			All types		All types		
<b>Accessories</b>								
		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>	<b>Page</b>	<b>Qty.</b>
Terminal marker PMC	PMC SB 5/50 WH	339	500					
Cat. no.	<b>4600.7</b>							
Terminal marker MC	MC SB 5/200	356	1000					
Cat. no.	<b>3300.7</b>							
Terminal marker AS3	AS 3/10 WH	354	500					
Cat. no.	<b>2571.0</b>							
Insert marker								
Cat. no.								
Adhesive device labels GKE								
Cat. no.								
Protective strips								
Cat. no.								
Shield cap SK								
Cat. no.								

SchT 9		SchT 10		ZSchT 3	
 <p>Marker holders for end stops</p>		 <p>Marker holders for end stops</p>		 <p>Hinged marker holder for end stop</p>	

SchT 9		SchT 10		ZSchT 3		
<b>Type</b>			<b>Qty.</b>		<b>Qty.</b>	
Type/colour	SchT 9		100	SchT 10	100	
Cat. no.	<b>3749.0</b>			<b>3809.0</b>		
Type/colour				ZSchT 3	100	
Cat. no.				<b>3775.2</b>		
Colours available	①			①		
<b>Characteristics</b>						
<b>Dimensions</b>						
Width, mm	8			9,5		
<b>Material</b>						
Material	PA6.6, halogen-free			PA6.6, halogen-free		
Temperature range	-40°C to +105°C			-40°C to +105°C		
Flamm. class acc. to UL 94	V2			V2		
<b>Inscription</b>						
Plotter	EMS-2			EMS-2		
Plotter inlay	CCI-11			CCI-11		
Marker pen	BS-1			BS-1		
<b>Application</b>						
Terminal blocks	-			-		
End stop	ES../2/K   ES../K/ST			ES../K/ST		
<b>Accessories</b>						
		<b>Page</b>	<b>Qty.</b>		<b>Page</b>	<b>Qty.</b>
Insert marker						
Cat. no.						
Adhesive device labels GKE						
Cat. no.						
Protective strips						
Cat. no.						

More accessories starting on page 264.

\*1: 4 x SB or 8 x AS markers  
\*2: 6 x SB or 12 x AS markers

ZSchT2	SchT 12	SchT 2	SchT 11	
Hinged marker holder for terminal block and end stop	Marker holder for terminal block	Marker holders for end stops	Marker holders for end stops	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
ZSchT 2 <b>3774.0</b>	SchT 12*1 <b>2531.0</b>	SchT 2 <b>2888.0</b>	SchT 11*1 <b>2530.0</b>	
100	100	100	100	

②	②	②	①	
8,5	6	9,5	5	
PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C	
V2	V2	V2	V2	
≥ 5 mm	RK2,5-4   RK6-10	-	-	
All types	-	ES../2/K   ES../K/ST	ES../2/K   ES../K/ST   ZES35/2	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
	PMC SB 5/50 WH <b>4600.7</b> 339 500		PMC SB 5/50 WH <b>4600.7</b> 339 500	
	MC SB 5/200 <b>3300.7</b> 356 1000		MC SB 5/200 <b>3300.7</b> 356 1000	
	AS 3/10 WH <b>2571.0</b> 354 500		AS 3/10 WH <b>2571.0</b> 354 500	
ESO 1 sheet of 120 pieces <b>2584.0</b>		ESO 2 10 <b>2877.0</b>		
GKE 30/6 WH 1 roll of 10000 pieces <b>3917.7</b> 398		GKE 30/6 WH 1 roll of 10000 pieces <b>3917.7</b> 398		
STR 1 100 <b>2506.0</b>		STR 2 100 <b>2878.0</b>		

ZSchT 4	ZSchT 5	ZSchT 6	GT 1	GT 2
Hinged marker holder for end stop	Hinged marker holder for end stop	Marker holders for end stops	Group marker holder for TS35/32 DIN rail	Group marker holder for TS35/32 DIN rail
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
ZSchT 4 <b>3776.0</b>	ZSchT 5 <b>3777.0</b>	ZSchT 6 <b>3807.0</b>	GT 1 <b>3783.2</b>	GT 2 <b>3784.2</b>
100	100	100	20	20

②	②	①		②
8.5	6	6	9.5	19.5
PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C	PA6.6, halogen-free -40°C to +105°C
V2	V2	V2	V2	V2
-	-	EMS-2 CCI-11 BS-1	-	-
ES../   ZES 35	ES../2/K   ES../K/ST   ZES35	ES../2/K   ES../K/ST   ZES35	-	-
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
ESO 1 sheet of 120 pieces <b>2584.0</b>	ESO 3 1 sheet of 124 pieces <b>2585.0</b>		ESO GT 1 1 sheet of 140 pieces <b>2580.0</b>	ESO GT 2 1 sheet of 60 pieces <b>2581.0</b>
GKE 30/6 WH 1 roll of 10000 pieces <b>3917.7</b> 404			GKE 30/6 WH 1 roll of 10000 pieces <b>3917.7</b> 404	GKE 30/6 WH 1 roll of 10000 pieces <b>3917.7</b> 404
STR 1 100 <b>2506.0</b>	STR 3 100 <b>2579.0</b>		STR GT 1 20 <b>2582.0</b>	STR GT 2 20 <b>2583.0</b>

## End plates | Visual separation

### Screw connection system

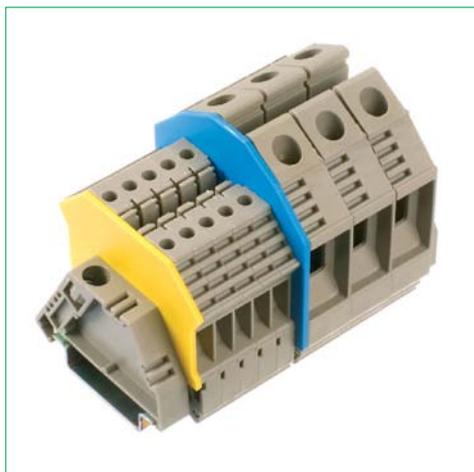


The AP end plates are normally used at the end of a row of terminals. If different terminals are being used within the same terminal block, then you should insert end plates in order to ensure that the touch-safe protection is maintained. The outer dimensions of the end plates match the dimensions of the terminals.

Coloured end plates are used quite often in order to establish a clear visual separation between the different circuits or voltage levels. In addition, the use of end plates increases the clearance and creepage distances, which in turn influence the voltage ratings.

The locking pegs ensure that the end plates can be mounted quickly.

Because of the special design of the **RK** series, an end plate does not need to be used to separate neighbouring **QI** cross-connectors of different potentials.



#### End plates for standard terminals SRK|RK|TSK|FF|SS|SF|PTK

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2427.2	AP 2,5/15 BG	beige	50	1.5 mm	PA 6.6 V2	SRK 2,5/15
2427.5	AP 2,5/15 BU	blue	50	1.5 mm	PA 6.6 V2	SRK 2,5/15
2427.3	AP 2,5/15 OG	orange	50	1.5 mm	PA 6.6 V2	SRK 2,5/15
2427.1	AP 2,5/15 GN	green	50	1.5 mm	PA 6.6 V2	SRK 2,5/15
2427.9	AP 2,5/15 RD	red	50	1.5 mm	PA 6.6 V2	SRK 2,5/15
2427.8	AP 2,5/15 YE	yellow	50	1.5 mm	PA 6.6 V2	SRK 2,5/15
2070.2	AP-SR BG	beige	50	1.5 mm	PA 6.6 V2	SRK 2,5
2070.5	AP-SR BU	blue	50	1.5 mm	PA 6.6 V2	SRK 2,5
2070.3	AP-SR OG	orange	50	1.5 mm	PA 6.6 V2	SRK 2,5
2070.1	AP-SR GN	green	50	1.5 mm	PA 6.6 V2	SRK 2,5
2070.9	AP-SR RD	red	50	1.5 mm	PA 6.6 V2	SRK 2,5
2070.8	AP-SR YE	yellow	50	1.5 mm	PA 6.6 V2	SRK 2,5
2738.2	AP 1,5-4 BG	beige	50	1.5 mm	PA 6.6 V2	RK 1,5-4/15   RK 1,5-4
2738.5	AP 1,5-4 BU	blue	50	1.5 mm	PA 6.6 V2	RK 1,5-4/15   RK 1,5-4
2738.3	AP 1,5-4 OG	orange	50	1.5 mm	PA 6.6 V2	RK 1,5-4/15   RK 1,5-4
2738.1	AP 1,5-4 GN	green	50	1.5 mm	PA 6.6 V2	RK 1,5-4/15   RK 1,5-4
2738.9	AP 1,5-4 RD	red	50	1.5 mm	PA 6.6 V2	RK 1,5-4/15   RK 1,5-4
2738.8	AP 1,5-4 YE	yellow	50	1.5 mm	PA 6.6 V2	RK 1,5-4/15   RK 1,5-4
2001.2	AP 2,5-10 BG	beige	50	1.5 mm	PA 6.6 V2	SRK 2,5/2A-SRK 10/2A RK 2,5-4   RK 6-10, TSK, FF, SF
2001.5	AP 2,5-10 BU	blue	50	1.5 mm	PA 6.6 V2	SRK 2,5/2A-SRK 10/2A RK 2,5-4   RK 6-10, TSK, FF, SF
2001.3	AP 2,5-10 OG	orange	50	1.5 mm	PA 6.6 V2	SRK 2,5/2A-SRK 10/2A RK 2,5-4   RK 6-10, TSK, FF, SF
2001.1	AP 2,5-10 GN	green	50	1.5 mm	PA 6.6 V2	SRK 2,5/2A-SRK 10/2A RK 2,5-4   RK 6-10, TSK, FF, SF
2001.9	AP 2,5-10 RD	red	50	1.5 mm	PA 6.6 V2	SRK 2,5/2A-SRK 10/2A RK 2,5-4   RK 6-10, TSK, FF, SF
2001.8	AP 2,5-10 YE	yellow	50	1.5 mm	PA 6.6 V2	SRK 2,5/2A-SRK 10/2A RK 2,5-4   RK 6-10, TSK, FF, SF
2104.2	AP 16 BG	beige	20	1.5 mm	PA 6.6 V2	RK 16
2104.5	AP 16 BU	blue	20	1.5 mm	PA 6.6 V2	RK 16
2104.3	AP 16 OG	orange	20	1.5 mm	PA 6.6 V2	RK 16
2116.2	AP 35 BG	beige	20	1.5 mm	PA 6.6 V2	RK 35
2116.5	AP 35 BU	blue	20	1.5 mm	PA 6.6 V2	RK 35
2116.3	AP 35 OG	orange	20	1.5 mm	PA 6.6 V2	RK 35
2421.2	AP/FF 1/15 BG	beige	20	1.5 mm	PA 6.6 V2	FF 1,5
2574.2	AP 2,5/R BG	beige	50	1.5 mm	PA 6.6 V2	RK 2,5-4 ZR
2574.5	AP 2,5/R BU	blue	50	1.5 mm	PA 6.6 V2	RK 2,5-4 ZR
2574.1	AP 2,5/R GN	green	50	1.5 mm	PA 6.6 V2	RK 2,5-4 ZR
2575.2	AP 2,5/RL BG	beige	50	1.5 mm	PA 6.6 V2	RK 2,5-4 ZRL
2575.5	AP 2,5/RL BU	blue	50	1.5 mm	PA 6.6 V2	RK 2,5-4 ZRL
2575.1	AP 2,5/RL GN	green	50	1.5 mm	PA 6.6 V2	RK 2,5-4 ZRL
2782.2	AP/L/Q/D BG	beige	20	1.5 mm	PA 6.6 V2	PTK

#### End plates for double-level terminal blocks RKD | RKDG

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2101.2	AP 4 BG	beige	20	1.5 mm	PA 6.6 V2	RKD 2,5   RKD 4
2101.5	AP 4 BU	blue	20	1.5 mm	PA 6.6 V2	RKD 2,5   RKD 4
2101.3	AP 4 OG	orange	20	1.5 mm	PA 6.6 V2	RKD 2,5   RKD 4
2101.1	AP 4 GN	green	20	1.5 mm	PA 6.6 V2	RKD 2,5   RKD 4
2101.9	AP 4 RD	red	20	1.5 mm	PA 6.6 V2	RKD 2,5   RKD 4
2101.8	AP 4 YE	yellow	20	1.5 mm	PA 6.6 V2	RKD 4
2159.2	AP 4 800 V BG	beige	20	1.5 mm	PA 6.6 V2	RKD 4
2586.2	APG 4 BG	beige	20	1.5 mm	PA 6.6 V2	RKDG 4
2586.5	APG 4 BU	blue	20	1.5 mm	PA 6.6 V2	RKDG 4

#### End plates for multi-level terminal blocks IKD|VMAK|IK|DLIS|DLI

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2699.2	AP 2,5/ID BG	beige	20	1.5 mm	PA 6.6 V2	IKD 2,5
2699.5	AP 2,5/ID BU	blue	20	1.5 mm	PA 6.6 V2	IKD 2,5
2699.3	AP 2,5/ID OG	orange	20	1.5 mm	PA 6.6 V2	IKD 2,5
2862.2	AP VMAK 2,5 BG	beige	20	1.5 mm	PA 6.6 V2	VMAK 2,5
2862.5	AP VMAK 2,5 BU	blue	20	1.5 mm	PA 6.6 V2	VMAK 2,5
2862.3	AP VMAK 2,5 OG	orange	20	1.5 mm	PA 6.6 V2	VMAK 2,5
2698.2	AP 2,5/I BG	beige	20	1.5 mm	PA 6.6 V2	IK 2,5
2698.5	AP 2,5/I BU	blue	20	1.5 mm	PA 6.6 V2	IK 2,5
2698.3	AP 2,5/I OG	orange	20	1.5 mm	PA 6.6 V2	IK 2,5
2714.2	AP/IKD 2,5/short BG	beige	20	1.5 mm	PA 6.6 V2	IKD 2,5
2829.2	AP 2,5 S BG	beige	20	1.5 mm	PA 6.6 V2	DLIS 2,5
2831.2	AP 2,5 D BG	beige	20	1.5 mm	PA 6.6 V2	DLI 2,5

#### End plates for Disconnect- and fused terminals STK|TK|STKD|SIK|SK

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2046.2	AP/SI-1 BG	beige	50	1.5 mm	PA 6.6 V2	STK 1   TK 2
2046.3	AP/SI-1 OG	orange	50	1.5 mm	PA 6.6 V2	STK 1   TK 2
2046.5	AP/SI-1 BU	blue	50	1.5 mm	PA 6.6 V2	STK 1   TK 2
2047.2	AP/SI BG	beige	50	1.5 mm	PA 6.6 V2	SK 1
2047.4	AP/SI BK	black	20	1.5 mm	PA 6.6 V2	SK 1
2186.2	AP/SI-2 BG	beige	50	1.5 mm	PA 6.6 V2	STK 2   STK 2/K
2186.3	AP/SI-2 OG	orange	50	1.5 mm	PA 6.6 V2	STK 2   STK 2/K
2186.5	AP/SI-2 BU	blue	50	1.5 mm	PA 6.6 V2	STK 2   STK 2/K
2187.2	AP/SID-1 BG	beige	20	1.5 mm	PA 6.6 V2	STKD 1   STKD 1/K
2187.3	AP/SID-1 OG	orange	20	1.5 mm	PA 6.6 V2	STKD 1   STKD 1/K
2187.5	AP/SID-1 BU	blue	20	1.5 mm	PA 6.6 V2	STKD 1   STKD 1/K
2762.2	AP 10 BG	beige	20	2 mm	PA 6.6 V2	SIK 10
2762.3	AP 10 OG	orange	20	2 mm	PA 6.6 V2	SIK 10
2762.5	AP 10 BG	blue	20	2 mm	PA 6.6 V2	SIK 10

## End plates | Visual separation

### Pressure-spring connection system



The **FAP** end plates are normally used at the end of a row of terminals. If different terminals are being used within the same terminal block, then you should insert end plates in order to ensure that the touch-safe protection is maintained.

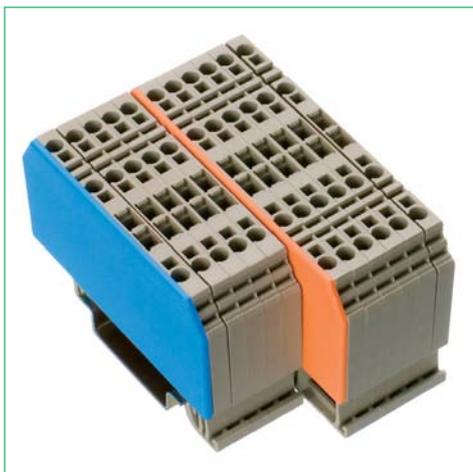
The outer dimensions of the end plates match the dimensions of the terminal blocks.

Coloured end plates are often used to establish a clear visual separation between the different circuits or voltage levels.

In addition, the use of end plates increases the clearance and creepage distances, which in turn influence the voltage ratings.

The locking pegs ensure that the end plates can be mounted quickly.

Because of the special design of the **FRK** series, an end plate does not need to be used to separate neighbouring cross-connectors of different potentials.



#### End plates for double-level terminal blocks FRK

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3400.2	FAP 1,5-4/2A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
3400.5	FAP 1,5-4/2A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
3400.3	FAP 1,5-4/2A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
3400.1	FAP 1,5-4/2A GN	green	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
3400.9	FAP 1,5-4/2A RD	red	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
3400.8	FAP 1,5-4/2A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
3401.2	FAP 1,5/3A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 1,5/3A, FSL 1,5/3A
3401.5	FAP 1,5/3A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 1,5/3A, FSL 1,5/3A
3401.3	FAP 1,5/3A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 1,5/3A, FSL 1,5/3A
3401.1	FAP 1,5/3A GN	green	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/3A
3401.9	FAP 1,5/3A RD	red	20	1.5 mm	PA 6.6 V0	FRK 1,5/3A, FSL 1,5/3A
3401.8	FAP 1,5/3A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/3A
3402.2	FAP 1,5/4A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 1,5/4A, FSL 1,5/4A
3402.5	FAP 1,5/4A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 1,5/4A, FSL 1,5/4A
3402.3	FAP 1,5/4A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 1,5/4A, FSL 1,5/4A
3402.1	FAP 1,5/4A GN	green	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/4A
3402.9	FAP 1,5/4A RD	red	20	1.5 mm	PA 6.6 V0	FRK 1,5/4A, FSL 1,5/4A
3402.8	FAP 1,5/4A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 1,5/2A, FSL 1,5/4A
3411.2	FAP 2,5/3A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 2,5/3A, FSL 2,5/3A
3411.5	FAP 2,5/3A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 2,5/3A, FSL 2,5/3A
3411.3	FAP 2,5/3A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 2,5/3A, FSL 2,5/3A
3411.1	FAP 2,5/3A GN	green	20	1.5 mm	PA 6.6 V0	FRK 2,5/3A, FSL 2,5/3A
3411.9	FAP 2,5/3A RD	red	20	1.5 mm	PA 6.6 V0	FRK 2,5/3A, FSL 2,5/3A
3411.8	FAP 2,5/3A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 2,5/3A, FSL 2,5/3A
3412.2	FAP 2,5/4A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 2,5/4A, FSL 2,5/4A
3412.5	FAP 2,5/4A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 2,5/4A, FSL 2,5/4A
3412.3	FAP 2,5/4A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 2,5/4A, FSL 2,5/4A
3412.1	FAP 2,5/4A GN	green	20	1.5 mm	PA 6.6 V0	FRK 2,5/4A, FSL 2,5/4A
3412.9	FAP 2,5/4A RD	red	20	1.5 mm	PA 6.6 V0	FRK 2,5/4A, FSL 2,5/4A
3412.8	FAP 2,5/4A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 2,5/4A, FSL 2,5/4A
3421.2	FAP 4/3A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 4/3A, FSL 4/3A
3421.5	FAP 4/3A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 4/3A, FSL 4/3A
3421.3	FAP 4/3A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 4/3A, FSL 4/3A
3421.1	FAP 4/3A GN	green	20	1.5 mm	PA 6.6 V0	FRK 4/3A, FSL 4/3A
3421.9	FAP 4/3A RD	red	20	1.5 mm	PA 6.6 V0	FRK 4/3A, FSL 4/3A
3421.8	FAP 4/3A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 4/3A, FSL 4/3A
3422.2	FAP 4/4A BG	beige	20	1.5 mm	PA 6.6 V0	FRK 4/4A, FSL 4/4A
3422.5	FAP 4/4A BU	blue	20	1.5 mm	PA 6.6 V0	FRK 4/4A, FSL 4/4A
3422.3	FAP 4/4A OG	orange	20	1.5 mm	PA 6.6 V0	FRK 4/4A, FSL 4/4A
3422.1	FAP 4/4A GN	green	20	1.5 mm	PA 6.6 V0	FRK 4/4A, FSL 4/4A
3422.9	FAP 4/4A RD	red	20	1.5 mm	PA 6.6 V0	FRK 4/4A, FSL 4/4A
3422.8	FAP 4/4A YE	yellow	20	1.5 mm	PA 6.6 V0	FRK 4/4A, FSL 4/4A

#### End plates for double-level terminals FRKD

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3423.2	FAPD 2,5 BG	beige	20	1.5 mm	PA 6.6 V0	FRKD 2,5   FSLD 2,5
3423.5	FAPD 2,5 BU	blue	20	1.5 mm	PA 6.6 V0	FRKD 2,5   FSLD 2,5
3423.3	FAPD 2,5 OG	orange	20	1.5 mm	PA 6.6 V0	FRKD 2,5   FSLD 2,5
3423.1	FAPD 2,5 GN	green	20	1.5 mm	PA 6.6 V0	FRKD 2,5   FSLD 2,5

#### End plates for multi-level terminals FDLIS

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3480.2	FAP 4/S BG	beige	20	1.5 mm	PA 6.6 V0	FDLIS 2,5-4....
3480.5	FAP 4/S BU	blue	20	1.5 mm	PA 6.6 V0	FDLIS 2,5-4....
3480.3	FAP 4/S OG	orange	20	1.5 mm	PA 6.6 V0	FDLIS 2,5-4....

#### End plates for disconnect and fused terminals FTRK

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3481.2	FAPT 2,5/2A BG	beige	20	1.5 mm	PA 6.6 V0	FTRK 2,5/2A
3481.5	FAPT 2,5/2A BU	blue	20	1.5 mm	PA 6.6 V0	FTRK 2,5/2A
3481.3	FAPT 2,5/2A OG	orange	20	1.5 mm	PA 6.6 V0	FTRK 2,5/2A
3481.1	FAPT 2,5/2A GN	green	20	1.5 mm	PA 6.6 V0	FTRK 2,5/2A
3481.9	FAPT 2,5/2A RD	red	20	1.5 mm	PA 6.6 V0	FTRK 2,5/2A
3481.8	FAPT 2,5/2A YE	yellow	20	1.5 mm	PA 6.6 V0	FTRK 2,5/2A
3482.2	FAPT 2,5/3A BG	beige	20	1.5 mm	PA 6.6 V0	FTRK 2,5/3A
3482.5	FAPT 2,5/3A BU	blue	20	1.5 mm	PA 6.6 V0	FTRK 2,5/3A
3482.3	FAPT 2,5/3A OG	orange	20	1.5 mm	PA 6.6 V0	FTRK 2,5/3A
3482.1	FAPT 2,5/3A GN	green	20	1.5 mm	PA 6.6 V0	FTRK 2,5/3A
3482.9	FAPT 2,5/3A RD	red	20	1.5 mm	PA 6.6 V0	FTRK 2,5/3A
3482.8	FAPT 2,5/3A YE	yellow	20	1.5 mm	PA 6.6 V0	FTRK 2,5/3A

## End plates | Visual separation

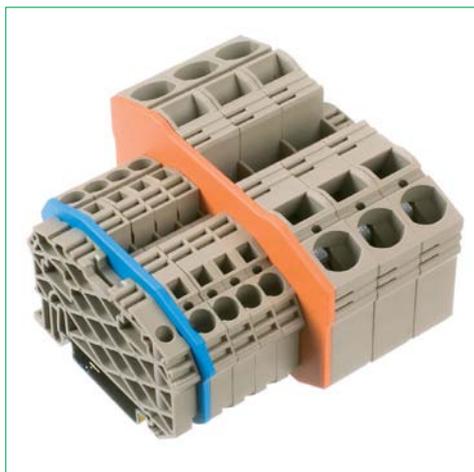
### Tension-spring connection system



The **ZAP** end plates are normally used at the end of a row of terminals. End plates must also be used within a terminal strip when it makes use of terminal blocks of different sizes in order to ensure touch-safe finger protection. The outer dimensions of the end plates match the dimensions of the terminal blocks.

Coloured end plates are used quite often in order to establish a clear visual separation between the different circuits or voltage levels. In addition, the use of end plates increases the clearance and creepage distances, which in turn influence the voltage ratings. The locking pegs ensure that the end plates can be mounted quickly.

Because of the special design of the **ZRK** series, an end plate does not need to be used to separate neighbouring cross-connectors of different potentials.



#### End plates for direct-mount terminal blocks with snap-in clip ZSRK/ZSLN (RC)

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3758.2	ZAP SR/RC BG	beige	50	5 mm	PA 6.6 V0	ZSRK 2,5/2A/RC   ZSLN 2,5/2A/RC
3758.5	ZAP SR/RC BU	blue	50	5 mm	PA 6.6 V0	ZSRK 2,5/2A/RC   ZSLN 2,5/2A/RC
3758.3	ZAP SR/RC OG	orange	50	5 mm	PA 6.6 V0	ZSRK 2,5/2A/RC   ZSLN 2,5/2A/RC
3758.1	ZAP SR/RC GN	green	50	5 mm	PA 6.6 V0	ZSRK 2,5/2A/RC   ZSLN 2,5/2A/RC
3758.9	ZAP SR/RC RD	red	50	5 mm	PA 6.6 V0	ZSRK 2,5/2A/RC   ZSLN 2,5/2A/RC
3758.8	ZAP SR/RC YE	yellow	50	5 mm	PA 6.6 V0	ZSRK 2,5/2A/RC   ZSLN 2,5/2A/RC

#### End plates for standard compact terminal blocks ZSRK/ZSLN

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3757.2	ZAP SR BG	beige	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/2A   ZSLN 2,5/2A
3757.5	ZAP SR BU	blue	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/2A   ZSLN 2,5/2A
3757.3	ZAP SR OG	orange	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/2A   ZSLN 2,5/2A
3757.1	ZAP SR GN	green	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/2A   ZSLN 2,5/2A
3757.9	ZAP SR RD	red	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/2A   ZSLN 2,5/2A
3757.8	ZAP SR YE	yellow	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/2A   ZSLN 2,5/2A
3794.2	ZAP SR 3A/15 BG	beige	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/15   ZSLN 2,5/3A/15
3794.5	ZAP SR 3A/15 BU	blue	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/15   ZSLN 2,5/3A/15
3794.3	ZAP SR 3A/15 OG	orange	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/15   ZSLN 2,5/3A/15
3794.1	ZAP SR 3A/15 GN	green	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/15   ZSLN 2,5/3A/15
3794.9	ZAP SR 3A/15 RD	red	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/15   ZSLN 2,5/3A/15
3794.8	ZAP SR 3A/15 YE	yellow	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/15   ZSLN 2,5/3A/15
3795.2	ZAP SR 3A/35 BG	beige	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/35   ZSLN 2,5/3A/35
3795.5	ZAP SR 3A/35 BU	blue	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/35   ZSLN 2,5/3A/35
3795.3	ZAP SR 3A/35 OG	orange	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/35   ZSLN 2,5/3A/35
3795.1	ZAP SR 3A/35 GN	green	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/35   ZSLN 2,5/3A/35
3795.9	ZAP SR 3A/35 RD	red	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/35   ZSLN 2,5/3A/35
3795.8	ZAP SR 3A/35 YE	yellow	50	1.5 mm	PA 6.6 V0	ZSRK 2,5/3A/35   ZSLN 2,5/3A/35

#### End plates for standard terminal blocks ZRK/ZSL

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3700.2	ZAP 2,5/2A BG	beige	50	2 mm	PA 6.6 V0	ZRK 2,5/2A   ZSL 2,5/2A
3700.5	ZAP 2,5/2A BU	blue	50	2 mm	PA 6.6 V0	ZRK 2,5/2A   ZSL 2,5/2A
3700.3	ZAP 2,5/2A OG	orange	50	2 mm	PA 6.6 V0	ZRK 2,5/2A   ZSL 2,5/2A
3700.1	ZAP 2,5/2A GN	green	50	2 mm	PA 6.6 V0	ZRK 2,5/2A   ZSL 2,5/2A
3700.9	ZAP 2,5/2A RD	red	50	2 mm	PA 6.6 V0	ZRK 2,5/2A   ZSL 2,5/2A
3700.8	ZAP 2,5/2A YE	yellow	50	2 mm	PA 6.6 V0	ZRK 2,5/2A   ZSL 2,5/2A
3701.2	ZAP 2,5/3A BG	beige	50	2 mm	PA 6.6 V0	ZRK 2,5/3A   ZSL 2,5/3A
3701.5	ZAP 2,5/3A BU	blue	50	2 mm	PA 6.6 V0	ZRK 2,5/3A   ZSL 2,5/3A
3701.3	ZAP 2,5/3A OG	orange	50	2 mm	PA 6.6 V0	ZRK 2,5/3A   ZSL 2,5/3A
3701.1	ZAP 2,5/3A GN	green	50	2 mm	PA 6.6 V0	ZRK 2,5/3A   ZSL 2,5/3A
3701.9	ZAP 2,5/3A RD	red	50	2 mm	PA 6.6 V0	ZRK 2,5/3A   ZSL 2,5/3A
3701.8	ZAP 2,5/3A YE	yellow	50	2 mm	PA 6.6 V0	ZRK 2,5/3A   ZSL 2,5/3A
3702.2	ZAP 2,5/4A BG	beige	50	2 mm	PA 6.6 V0	ZRK 2,5/4A   ZSL 2,5/4A
3702.5	ZAP 2,5/4A BU	blue	50	2 mm	PA 6.6 V0	ZRK 2,5/4A   ZSL 2,5/4A
3702.3	ZAP 2,5/4A OG	orange	50	2 mm	PA 6.6 V0	ZRK 2,5/4A   ZSL 2,5/4A
3702.1	ZAP 2,5/4A GN	green	50	2 mm	PA 6.6 V0	ZRK 2,5/4A   ZSL 2,5/4A
3702.8	ZAP 2,5/4A YE	yellow	50	2 mm	PA 6.6 V0	ZRK 2,5/4A   ZSL 2,5/4A
3702.9	ZAP 2,5/4A RD	red	50	2 mm	PA 6.6 V0	ZRK 2,5/4A   ZSL 2,5/4A
3703.2	ZAP 4/2A BG	beige	50	2 mm	PA 6.6 V0	ZRK 4/2A   ZSL 4/2A
3703.5	ZAP 4/2A BU	blue	50	2 mm	PA 6.6 V0	ZRK 4/2A   ZSL 4/2A
3703.3	ZAP 4/2A OG	orange	50	2 mm	PA 6.6 V0	ZRK 4/2A   ZSL 4/2A
3703.1	ZAP 4/2A GN	green	50	2 mm	PA 6.6 V0	ZRK 4/2A   ZSL 4/2A
3703.9	ZAP 4/2A RD	red	50	2 mm	PA 6.6 V0	ZRK 4/2A   ZSL 4/2A
3703.8	ZAP 4/2A YE	yellow	50	2 mm	PA 6.6 V0	ZRK 4/2A   ZSL 4/2A
3704.2	ZAP 4/3A BG	beige	50	2 mm	PA 6.6 V0	ZRK 4/3A   ZSL 4/3A
3704.5	ZAP 4/3A BU	blue	50	2 mm	PA 6.6 V0	ZRK 4/3A   ZSL 4/3A
3704.3	ZAP 4/3A OG	orange	50	2 mm	PA 6.6 V0	ZRK 4/3A   ZSL 4/3A
3704.1	ZAP 4/3A GN	green	50	2 mm	PA 6.6 V0	ZRK 4/3A   ZSL 4/3A
3704.9	ZAP 4/3A RD	red	50	2 mm	PA 6.6 V0	ZRK 4/3A   ZSL 4/3A
3704.8	ZAP 4/3A YE	yellow	50	2 mm	PA 6.6 V0	ZRK 4/3A   ZSL 4/3A
3705.2	ZAP 4/4A BG	beige	50	2 mm	PA 6.6 V0	ZRK 4/4A   ZSL 4/4A
3705.5	ZAP 4/4A BU	blue	50	2 mm	PA 6.6 V0	ZRK 4/4A   ZSL 4/4A
3705.3	ZAP 4/4A OG	orange	50	2 mm	PA 6.6 V0	ZRK 4/4A   ZSL 4/4A
3705.1	ZAP 4/4A GN	green	50	2 mm	PA 6.6 V0	ZRK 4/4A   ZSL 4/4A
3705.9	ZAP 4/4A RD	red	50	2 mm	PA 6.6 V0	ZRK 4/4A   ZSL 4/4A
3705.8	ZAP 4/4A YE	yellow	50	2 mm	PA 6.6 V0	ZRK 4/4A   ZSL 4/4A

## End plates | Visual separation

### Tension-spring connection system



#### End plates for standard terminal blocks ZRK/ZSL

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3760.2	ZAP 6/2A BG	beige	20	2 mm	PA 6.6 V0	ZRK 6/2A   ZSL 6/2A
3760.5	ZAP 6/2A BU	blue	20	2 mm	PA 6.6 V0	ZRK 6/2A   ZSL 6/2A
3760.3	ZAP 6/2A OG	orange	20	2 mm	PA 6.6 V0	ZRK 6/2A   ZSL 6/2A
3760.1	ZAP 6/2A GN	green	20	2 mm	PA 6.6 V0	ZRK 6/2A   ZSL 6/2A
3760.9	ZAP 6/2A RD	red	20	2 mm	PA 6.6 V0	ZRK 6/2A   ZSL 6/2A
3760.8	ZAP 6/2A YE	yellow	20	2 mm	PA 6.6 V0	ZRK 6/2A   ZSL 6/2A
3788.2	ZAP 10/2A BG	beige	20	2 mm	PA 6.6 V0	ZRK 10/2A   ZSL 10/2A
3788.5	ZAP 10/2A BU	blue	20	2 mm	PA 6.6 V0	ZRK 10/2A   ZSL 10/2A
3788.3	ZAP 10/2A OG	orange	20	2 mm	PA 6.6 V0	ZRK 10/2A   ZSL 10/2A
3788.1	ZAP 10/2A GN	green	20	2 mm	PA 6.6 V0	ZRK 10/2A   ZSL 10/2A
3788.9	ZAP 10/2A RD	red	20	2 mm	PA 6.6 V0	ZRK 10/2A   ZSL 10/2A
3788.8	ZAP 10/2A YE	yellow	20	2 mm	PA 6.6 V0	ZRK 10/2A   ZSL 10/2A
3799.2	ZAP 16/2A BG	beige	20	2 mm	PA 6.6 V0	ZRK 16/2A   ZSL 16/2A
3799.5	ZAP 16/2A BU	blue	20	2 mm	PA 6.6 V0	ZRK 16/2A   ZSL 16/2A
3799.3	ZAP 16/2A OG	orange	20	2 mm	PA 6.6 V0	ZRK 16/2A   ZSL 16/2A
3799.1	ZAP 16/2A GN	green	20	2 mm	PA 6.6 V0	ZRK 16/2A   ZSL 16/2A
3799.9	ZAP 16/2A RD	red	20	2 mm	PA 6.6 V0	ZRK 16/2A   ZSL 16/2A
3799.8	ZAP 16/2A YE	yellow	20	2 mm	PA 6.6 V0	ZRK 16/2A   ZSL 16/2A

#### End plates for double-level terminal blocks ZRKD/ZSLD

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3756.2	ZAPD 2,5 BG	beige	20	2 mm	PA 6.6 V0	ZRKD 2,5   ZSLD 2,5
3756.5	ZAPD 2,5 BU	blue	20	2 mm	PA 6.6 V0	ZRKD 2,5   ZSLD 2,5
3756.3	ZAPD 2,5 OG	orange	20	2 mm	PA 6.6 V0	ZRKD 2,5   ZSLD 2,5
3756.1	ZAPD 2,5 GN	green	20	2 mm	PA 6.6 V0	ZRKD 2,5   ZSLD 2,5
3756.9	ZAPD 2,5 RD	red	20	2 mm	PA 6.6 V0	ZRKD 2,5   ZSLD 2,5
3756.8	ZAPD 2,5 YE	yellow	20	2 mm	PA 6.6 V0	ZRKD 2,5   ZSLD 2,5

#### End plates for initiator terminal blocks ZINI/ZAKTO/ZMP

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3746.2	ZAP/TW/ZIZA 1,5/3 BG	beige	20	5 mm	PA 6.6 V0	ZIZA 1,5/3   ZIZA 1,5/3/PE
3747.2	ZAP/TW/ZIZA 1,5/4 BG	beige	20	5 mm	PA 6.6 V0	ZIZA 1,5/4   ZIZA 1,5/4/PE
3785.2	ZAP ZMP BG	beige	20	5 mm	PA 6.6 V0	ZMP 1,5

#### End plates for multi-level terminal blocks ZIKD/ZVMAK

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3761.2	ZAP 2,5/ID BG	beige	20	1.5 mm	PA 6.6 V0	ZIKD 2,5
3761.5	ZAP 2,5/ID BU	blue	20	1.5 mm	PA 6.6 V0	ZIKD 2,5
3761.3	ZAP 2,5/ID OG	orange	20	1.5 mm	PA 6.6 V0	ZIKD 2,5
3761.1	ZAP 2,5/ID GN	green	20	1.5 mm	PA 6.6 V0	ZIKD 2,5
3761.9	ZAP 2,5/ID RD	red	20	1.5 mm	PA 6.6 V0	ZIKD 2,5
3761.8	ZAP 2,5/ID YE	yellow	20	1.5 mm	PA 6.6 V0	ZIKD 2,5
3762.2	ZAP MA BG	beige	20	1.5 mm	PA 6.6 V0	ZVMAK 2,5
3762.5	ZAP MA BU	blue	20	1.5 mm	PA 6.6 V0	ZVMAK 2,5

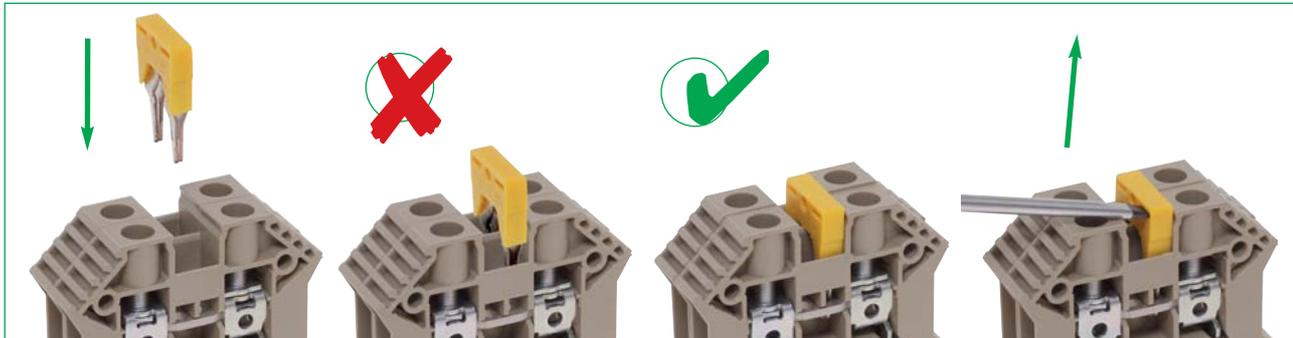
#### End plates for disconnect and fused terminal blocks ZTRK

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
3796.2	ZAPT 2,5/2A BG	beige	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/2A
3796.5	ZAPT 2,5/2A BU	blue	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/2A
3796.3	ZAPT 2,5/2A OG	orange	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/2A
3796.1	ZAPT 2,5/2A GN	green	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/2A
3796.9	ZAPT 2,5/2A RD	red	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/2A
3796.8	ZAPT 2,5/2A YE	yellow	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/2A
3797.2	ZAPT 2,5/3A BG	beige	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/3A
3797.5	ZAPT 2,5/3A BU	blue	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/3A
3797.3	ZAPT 2,5/3A OG	orange	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/3A
3797.1	ZAPT 2,5/3A GN	green	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/3A
3797.9	ZAPT 2,5/3A RD	red	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/3A
3797.8	ZAPT 2,5/3A YE	yellow	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/3A
3798.2	ZAPT 2,5/4A BG	beige	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/4A
3798.5	ZAPT 2,5/4A BU	blue	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/4A
3798.3	ZAPT 2,5/4A OG	orange	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/4A
3798.1	ZAPT 2,5/4A GN	green	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/4A
3798.9	ZAPT 2,5/4A RD	red	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/4A
3798.8	ZAPT 2,5/4A YE	yellow	20	1.5 mm	PA 6.6 V0	ZTRK 2,5/4A



## Insulated cross-connections SQI (potential distribution)

### Usage of the SQI



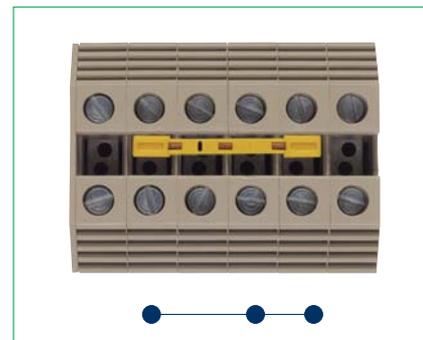
### Cross-connection options



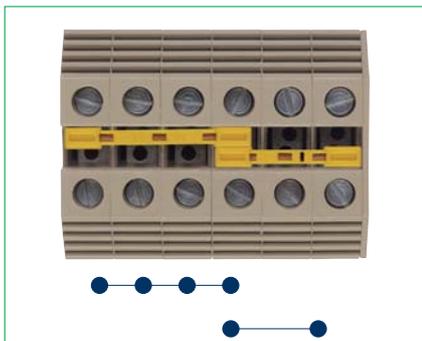
Simple



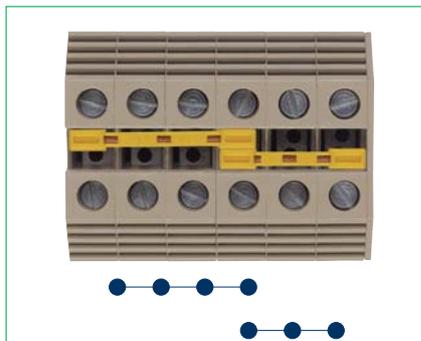
Side-by-side



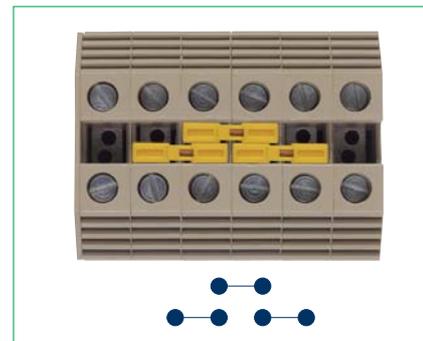
Alternating



Parallel alternating



Parallel extended



Chain linked

## Insulated cross-connections SQI (potential distribution)

The 30-pole cross-connector features a numbered scale which allows the user to easily count off or shorten to the number of required poles.



## Insulated cross-connections SQI

The **SQI** cross-connections for the screw connection system have a pluggable, insulated design. They can be used to conduct the rated current of the corresponding cross-section range. The terminal block design and the variability of the cross-connector ensure excellent flexibility.

	SQI 2,5...	SQI 4...	SQI 6...
			
	Cross-connection insulated	Cross-connection insulated	Cross-connection insulated

Type		Qty.	Qty.	Qty.			
Type/colour <b>Cat. no.</b>	2 poles	SQI 2,5/2 YE <b>17201.8</b>	50	SQI 4/2 YE <b>17211.8</b>	50	SQI 6/2 YE <b>17221.8</b>	50
Type/colour <b>Cat. no.</b>	3 poles	SQI 2,5/3 YE <b>17202.8</b>	50	SQI 4/3 YE <b>17212.8</b>	50	SQI 6/3 YE <b>17222.8</b>	50
Type/colour <b>Cat. no.</b>	4 poles	SQI 2,5/4 YE <b>17203.8</b>	20	SQI 4/4 YE <b>17213.8</b>	20	SQI 6/4 YE <b>17223.8</b>	20
Type/colour <b>Cat. no.</b>	5 poles	SQI 2,5/5 YE <b>17204.8</b>	20	SQI 4/5 YE <b>17214.8</b>	20	SQI 6/5 YE <b>17224.8</b>	20
Type/colour <b>Cat. no.</b>	6 poles	SQI 2,5/6 YE <b>17205.8</b>	20	SQI 4/6 YE <b>17215.8</b>	20	SQI 6/6 YE <b>17225.8</b>	20
Type/colour <b>Cat. no.</b>	7 poles	SQI 2,5/7 YE <b>17206.8</b>	20	SQI 4/7 YE <b>17216.8</b>	20	SQI 6/7 YE <b>17226.8</b>	20
Type/colour <b>Cat. no.</b>	8 poles	SQI 2,5/8 YE <b>17207.8</b>	10	SQI 4/8 YE <b>17217.8</b>	10	SQI 6/8 YE <b>17227.8</b>	10
Type/colour <b>Cat. no.</b>	9 poles	SQI 2,5/9 YE <b>17208.8</b>	10	SQI 4/9 YE <b>17218.8</b>	10	SQI 6/9 YE <b>17228.8</b>	10
Type/colour <b>Cat. no.</b>	10 poles	SQI 2,5/10 YE <b>17209.8</b>	10	SQI 4/10 YE <b>17219.8</b>	10	SQI 6/10 YE <b>17229.8</b>	10
Type/colour <b>Cat. no.</b>	30 poles	SQI 2,5/30 YE <b>17210.8</b>	5	SQI 4/30 YE <b>17220.8</b>	5	SQI 6/30 YE <b>17230.8</b>	5

Colours available			
Ratings	IEC	IEC	IEC
Rated current, A   Max. current, A	24   32	32   41	41   57
Max. voltage with partition plate, V	1000	1000	1000
Max. voltage without partition plate, V	1000	1000	1000
Rated impulse voltage, kV   Contamination degree	-   3	-   3	-   3
Pitch, mm	5	6	8

Accessories	Page Qty.	Page Qty.	Page Qty.	
Insulation cap for cross-connector <b>Cat. no.</b>	SQIK 2,5-10 YE <b>17200.8</b>	285 20	SQIK 2,5-10 YE <b>17200.8</b>	285 20
For terminal	Remarks	Remarks	Remarks	
	SRK 2,5... SSL 2,5...	SRK 4... SSL 4...	SRK 6... SSL 6...	



## Uninsulated cross-connections Q | Insulated cross-connections QI (potential distribution)



The **Q/QI** screwable cross-connection system allows you to save time while distributing potentials between terminal blocks of the same cross-section range. The **QI** has a touch-safe design and, like the **Q** cross-connection system, is available with 2, 3, 4 or 10 poles. Parallel connections between various potentials, without loss of poles, is possible with the **QI** system in cross-sections ranging from 2.5 mm<sup>2</sup> to 10 mm<sup>2</sup>.

### Skip-over bridging

With the standard terminal blocks, it is possible to skip over terminal blocks by breaking out (**QI**) or unscrewing (**Q**) individual contact poles.



### Shortening cross-connections

It is possible to shorten the cross-connections with a cutting tool, but you must then make sure that the cut side is fitted with an end plate so that the voltage rating is maintained.



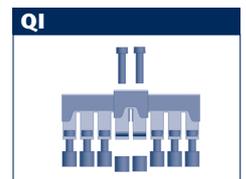
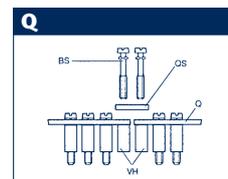
### Q/QI pre-assembled cross-connectors

The pre-assembled cross-connectors feature a cross-connection rail, connecting sleeve and attachment screw already assembled in the appropriate number of poles so that they cannot be lost. During installation, these pre-assembled cross-connectors need only be inserted into the appropriate terminal row. The cross-connection units are available in versions with 2, 3, 4 or 10 poles. Depending on the type of terminal block, we offer either insulated **QI** cross-connectors and/or uninsulated **Q** cross-connectors.



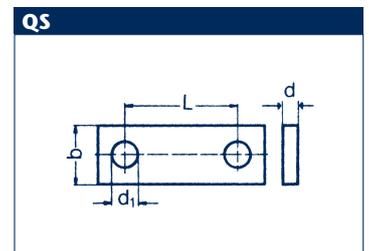
### Cross-connecting (with Q/QI) one potential over more than ten terminal blocks.

From the cross-connection, the first or last screw is unscrewed from the **VH**. The **QS 2** or **QI 2** without **VH** is put in and then both screws are screwed back in to the **VH**.



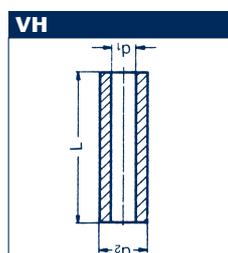
### Individual components of cross-connection Q (QS + VH + BS = Q) QS cross-connection rails

Cross-connection rails can be used in order to cross-connect identical potentials across multiple terminal blocks. The cross-connection rails are made of copper or brass. They have a galvanized nickel-plated surface. These cross-connection rails are delivered in 2-pole, 3-pole, 4-pole and 10-pole lengths – corresponding to the width of the terminal. The cross-connection rail is connected electrically using a connecting sleeve with the busbar in the terminal block. We offer cross-connection rails in 0.5 m length to fit with certain terminal blocks. This allows you to put together cross-connections for any number of poles.



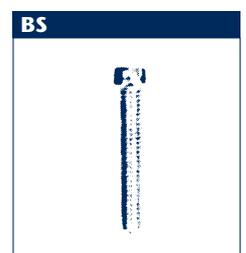
### VH connecting sleeves

The **VHs** have a customized length based on the corresponding terminal. They are made from copper or brass. They have a nickel-plated surface. A **VH** must be used for each terminal that is being cross-connected.



### BS mounting screws

A steel screw is used to attach the cross-connection rail with the sleeve (**VH**) to the busbar on the terminal block. The steel screw ensures that the cross-connection unit has a strong mechanical connection to the busbar.



## Uninsulated cross-connections Q | Insulated cross-connections QI (potential distribution)

### Usage of the QI

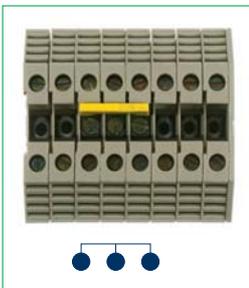


### Examples

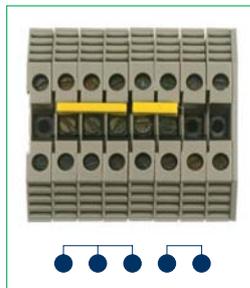
#### Variability of the screwable cross-connector

Pre-assembled cross-connection units – in 2, 3, 4, 10, or 40-pole versions – significantly reduce the assembly time. There are additional advantages with the **QI** insulated cross-connections when using terminal blocks up to 10 mm<sup>2</sup>. Because of its angled design, two **QI**s can be assembled offset (staggered). Thus it is possible to achieve the parallel guiding of two potentials. Since the **QI** is insulated and touch-safe according to VDE 0106 section 100, it is not necessary to use end plates or partitions between neighbouring cross-connection up to 400 V. The **QI** cross-connections can carry the rated current of the terminal blocks. It is also possible to skip terminals, since the individual contact ridges can be broken off.

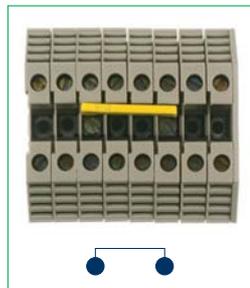
### Cross-connection options



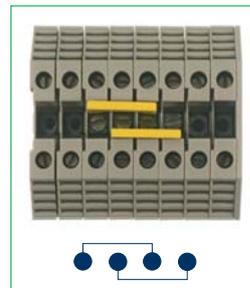
Simple



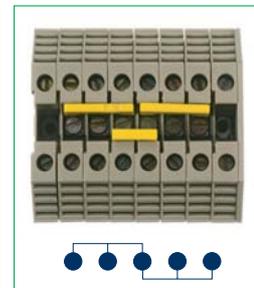
Side-by-side



Alternating



Parallel alternating



Extended

**Switchable cross-connections** switchable cross-connections are meant for 2-pole cross-connections that are easily separated. A **VH**-type connecting sleeve and a **BS**-type screw are used for installation.

### Switchable cross-connection QL 2



Switchable cross-connection QL			Connecting sleeve VH			Mounting screw BS			For terminal
Type	Cat. no.	Qty.	Type	Cat. no.	Qty.	Type	Cat. no.	Qty.	Type
QL 2	2076.0	50	VH 16	2077.0	100	BS M2,5x20	2078.0	100	RK 1,5-4   RKD 4
QL 2	2008.0	50	VH 19	2009.0	100	BS M3x25	2010.0	100	RK 2,5-4
QL 2	2053.0	50	VH 19	2009.0	100	BS M3x25	2010.0	100	RK 6-10
QL 2	2106.0	50	VH 19	2009.0	100	BS M3x25	2010.0	100	RK 16

**Uninsulated cross-connections Q | Insulated cross-connections QI**

The **Q/QI** screwable, pre-assembled cross-connection system allows you to save time while distributing potentials between terminal blocks of the same cross-section range.

Available with 2, 3, 4, 10, 40, 83 and 100 poles



Cross-connection Uninsulated

Cross-connection Uninsulated

Cross-connection Uninsulated

Type		Qty.	Qty.	Qty.
Type/colour	2 poles	Q 2	Q 2	Q 2
<b>Cat. no.</b>		<b>2832.0</b>	<b>2422.0</b>	<b>2567.0</b>
Type/colour	3 poles	Q 3	Q 3	Q 3
<b>Cat. no.</b>		<b>2833.0</b>	<b>2423.0</b>	<b>2568.0</b>
Type/colour	4 poles	Q 4	Q 4	Q 4
<b>Cat. no.</b>		<b>2834.0</b>	<b>2424.0</b>	<b>2569.0</b>
Type/colour	10 poles	Q 10	Q 10	Q 10
<b>Cat. no.</b>		<b>2835.0</b>	<b>2425.0</b>	<b>2570.0</b>
Type/colour	20 poles	Q 20	Q 20	
<b>Cat. no.</b>		<b>2836.0</b>	<b>2700.0</b>	
Type/colour	Multi-pole	Q 0.5 m/83 poles	Q 0.5 m/100 poles	Q 0.5 m/100 poles
<b>Cat. no.</b>		<b>2154.0</b>	<b>2151.0</b>	<b>2152.0</b>

Ratings	IEC	IEC	IEC
Rated current, A	20	20	20
Max. voltage with partition plate, V	400	400	800
Max. voltage without partition plate, V	400*	400*	400*
Rated impulse voltage, kV   Contamination degree	- 3	- 3	- 3
Pitch, mm	6	5	5

Connection data			
Torque, Nm   Screw	0.4-0.8 M2.5	0.4-0.8 M2.5	0.4-0.8 M2.5

Accessories	Page	Qty.	Page	Qty.	Page	Qty.
Screwdriver	SDB 0.6x3.5		SDB 0.6x3.5		SDB 0.6x3.5	
<b>Cat. no.</b>	<b>1086.0</b>	422	<b>1086.0</b>	422	<b>1086.0</b>	422

For terminal	Remarks	Remarks	Remarks
	DLI 2,5/... -	SRK 2,5/15 1	RK 2,5 1
	DLIS 2,5/... -	SRK 2,5/ 1	KBL 2,5 1
		IK 2,5 1	
		IKD 2,5 1	
			RKD 2.5... 1
			KBLD 2,5 1
			Reduce the voltage to 400 V when used together with double-level terminals!

All terminals marked with a "1" are, when used with the corresponding cross-connector, totally protected against touch, in accordance with the regulations for accident prevention "Electrical facilities and operating devices" (VBG 4 and VDE 0106 part 100/3.83).

All terminals marked with a "2" should, when used with the corresponding cross-connector, be fitted with a cover (for example, ADQ, EA 1 or similar) in order to ensure total touch-safety protection.

\*Partitions or end plates should be used between neighbouring cross-connections.

Q...(4mm <sup>2</sup> )	Q...(4mm <sup>2</sup> )	QI...(4mm <sup>2</sup> )	Q...(10mm <sup>2</sup> )	QI...(10mm <sup>2</sup> )
Cross-connection Uninsulated	Cross-connection Uninsulated	Cross-connection insulated	Cross-connection Uninsulated	Cross-connection insulated
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Q 2 <b>2087.0</b> 50	Q 2 <b>2019.0</b> 50	QI 2 YE <b>2740.2</b> 50	Q 2 <b>2060.0</b> 50	QI 2 YE <b>2750.2</b> 50
Q 3 <b>2088.0</b> 50	Q 3 <b>2020.0</b> 50	QI 3 YE <b>2741.2</b> 50	Q 3 <b>2061.0</b> 50	QI 3 YE <b>2751.2</b> 50
Q 4 <b>2089.0</b> 20	Q 4 <b>2021.0</b> 20	QI 4 YE <b>2742.2</b> 20	Q 4 <b>2062.0</b> 20	QI 4 YE <b>2752.2</b> 20
Q 10 <b>2090.0</b> 10	Q 10 <b>2022.0</b> 10	QI 10 YE <b>2743.2</b> 10	Q 10 <b>2063.0</b> 10	QI 10 YE <b>2753.2</b> 10
Q 0.5 m/100 poles <b>2150.0</b> 1	Q 0.5 m/83 poles <b>2153.0</b> 1	QI 40 YE <b>2746.2</b> 1		
<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>
20	27	32	47	57
800	800	800	800	800
400*	400*	400	400*	400
- 3	- 3	- 3	- 3	- 3
6	6	6	8	8
0.4-0.8 M2.5	0.5-1.0 M3	0.5-1.0 M3	0.5-1.0 M3	0.5-1.0 M3
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1	SDB 0.6x3.5 <b>1086.0</b> 422 1
<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>
RK 1,5 - 4/15 1	RK 2,5 - 4 2	RK 2,5 - 4 1	RK 6 - 10 2	RK 6 - 10 1
RK 1,5/4 1	RK 2,5-4 ZR 2	RK 2,5-4 ZR 1	KBL 6-10 2	KBL 6-10 1
KBL 1,5-4/15 1	RK 2,5-4 ZRL 2	RK 2,5-4 ZRL 1		
KBL 1,5-4 1	KBL 2,5-4 2	KBL 2,5-4 1		
	FF 2,5 2	FF 2,5 1		
	SF2,5 2	SF2,5 1		
RKD 4... 1				
RKDG 4 1				
Reduce the voltage to 400 V when used together with double-level terminals!				

GENERAL ACCESSORIES

All terminals marked with a "1" are, when used with the corresponding cross-connector, totally protected against touch, in accordance with the regulations for accident prevention "Electrical facilities and operating devices" (VBG 4 and VDE 0106 part 100/3.83).

All terminals marked with a "2" should, when used with the corresponding cross-connector, be fitted with a cover (for example, ADQ, EA 1 or similar) in order to ensure total touch-safety protection.

\*Partitions or end plates should be used between neighbouring cross-connections.

**Uninsulated cross-connections Q | Switchable cross-connections QL**

The **Q/QI** screwable, pre-assembled cross-connection system allows you to save time while distributing potentials between terminal blocks of the same cross-section range.

Available with 2, 3, 4, and 10 poles.

	Q...(16 mm <sup>2</sup> )	Q...(16 mm <sup>2</sup> )	Q...(35 mm <sup>2</sup> )
			
	Cross-connection Uninsulated	Cross-connection Uninsulated	Cross-connection Uninsulated

Type		Qty.	Qty.	Qty.
Type/colour	2 poles	Q 2	Q 2	Q 2
<b>Cat. no.</b>		<b>2112.0</b>	<b>2257.0</b>	<b>2164.0</b>
Type/colour	3 poles	Q 3	Q 3	Q 3
<b>Cat. no.</b>		<b>2113.0</b>	<b>2258.0</b>	<b>2165.0</b>
Type/colour	4 poles	Q 4	Q 4	Q 4
<b>Cat. no.</b>		<b>2114.0</b>	<b>2265.0</b>	<b>2166.0</b>
Type/colour	10 poles	Q 10	Q 10	Q 10
<b>Cat. no.</b>		<b>2115.0</b>	<b>2266.0</b>	<b>2167.0</b>
Type/colour				
<b>Cat. no.</b>				

Ratings	IEC	IEC	IEC
Rated current, A	47	47	65
Max. voltage with partition plate, V	800	800	800
Max. voltage without partition plate, V	400*	400*	400*
Rated impulse voltage, kV   Contamination degree	- 3	- 3	- 3
Pitch, mm	12	12	16

Connection data			
Torque, Nm   Screw	0.5-1.0 M3	0.5-1.0 M3	1.2-2.0 M4

Accessories	Page	Qty.	Page	Qty.	Page	Qty.
Screwdriver	SDB 0.6x3.5		SDB 0.6x3.5		SDB 0,8x4,0	
<b>Cat. no.</b>	<b>1086.0</b>	422	<b>1086.0</b>	422	<b>1087.0</b>	422

For terminal	Remarks	Remarks	Remarks
	RK 16	RK 16/35 N	RK 35 RK 35/35 N
	1	1	1 2

All terminals marked with a "1" are, when used with the corresponding cross-connector, totally protected against touch, in accordance with the regulations for accident prevention "Electrical facilities and operating devices" (VBG 4 and VDE 0106 part 100/3.83).

All terminals marked with a "2" should, when used with the corresponding cross-connector, be fitted with a cover (for example, ADQ, EA 1 or similar) in order to ensure total touch-safety protection.

\*Partitions or end plates should be used between neighbouring cross-connections.

QL 2	QL 2	QL 2	QL 2	QL 2
Switchable cross-connection	Switchable cross-connection	Switchable cross-connection	Switchable cross-connection	Switchable cross-connection
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
QL 2 <b>2076.0</b> 50	QL 2 <b>2008.0</b> 50	QL 2 <b>2053.0</b> 50	QL 2 <b>2106.0</b> 50	QL 2 <b>2306.0</b> 50
<b>When combined with:</b> Connecting sleeve VH VH 16 <b>2077.0</b> 100 <b>and</b> Mounting screw BS BS M 2,5x20 <b>2078.0</b> 100	<b>When combined with:</b> Connecting sleeve VH VH 19 <b>2009.0</b> 100 <b>and</b> Mounting screw BS BS M 3x25 <b>2010.0</b> 100	<b>When combined with:</b> Connecting sleeve VH VH 19 <b>2009.0</b> 100 <b>and</b> Mounting screw BS BS M 3x25 <b>2010.0</b> 100	<b>When combined with:</b> Connecting sleeve VH VH 19 <b>2009.0</b> 100 <b>and</b> Mounting screw BS BS M 3x25 <b>2010.0</b> 100	<b>When combined with:</b> Connecting sleeve VH VH 17 <b>2122.0</b> 50 <b>and</b> Mounting screw BS BS M 4x30 <b>2123.0</b> 50
<b>IEC</b> 24 - - -j3 6	<b>IEC</b> 24 - - -j3 6	<b>IEC</b> 32 - - -j3 8	<b>IEC</b> 41 - - -j3 12	<b>IEC</b> 57 - - -j3 16
0.4-0.8 M2.5	0.5-1.0 M3	0.5-1.0 M3	0.5-1.0 M3	1,2-2,0 M4
<b>Page Qty.</b> SDB 0.6x3.5 <b>1086.0</b> 422 1	<b>Page Qty.</b> SDB 0.6x3.5 <b>1086.0</b> 422 1	<b>Page Qty.</b> SDB 0.6x3.5 <b>1086.0</b> 422 1	<b>Page Qty.</b> SDB 0.6x3.5 <b>1086.0</b> 422 1	<b>Page Qty.</b> SDB 0.6x3.5 <b>1086.0</b> 422 1
<b>Remarks</b> RK 1,5 - 4 No touch-safety protection! RKD 4 No touch-safety protection!	<b>Remarks</b> RK 2,5 - 4 No touch-safety protection!	<b>Remarks</b> RK 6 - 10 No touch-safety protection!	<b>Remarks</b> RK 16 No touch-safety protection!	<b>Remarks</b> RK 35 No touch-safety protection!

Switchable cross-connections are meant for 2-pole cross-connections that are easily separated. A **VH**-type connecting sleeve and a **BS**-type screw are used for installation.



## External insulated cross-connection AQI

### External cross-connector AQI

External cross-connection bridges make it possible to branch off the current for terminals, which are not available in the middle of the terminal, via a cross-connection channel.

When external cross-connections are used, the rated cross-section is reduced to the next smallest wire size.

### AQI.../5/11



External cross-connection insulated

### AQI.../5/15



External cross-connection insulated

### AQI.../6/11



External cross-connection insulated

Type		AQI.../5/11	AQI.../5/15	AQI.../6/11
		Qty.	Qty.	Qty.
Type/colour	2 poles	AQI 2/5/11 YE <b>2032.0</b>	AQI 2/8/11 YE <b>2023.0</b>	AQI 2/6/11 YE <b>2125.0</b>
Cat. no.		50	50	50
Type/colour	3 poles	AQI 3/5/11 YE <b>2033.0</b>	AQI 3/5/15 YE <b>2024.0</b>	AQI 3/6/11 YE <b>2126.0</b>
Cat. no.		50	50	50
Type/colour	4 poles	AQI 4/5/11 YE <b>2044.0</b>	AQI 4/5/15 YE <b>2028.0</b>	AQI 4/6/11 YE <b>2140.0</b>
Cat. no.		10	10	10
Type/colour	10 poles	AQI 10/6/11 YE <b>2045.0</b>	AQI 10/5/15 YE <b>2029.0</b>	AQI 10/6/11 YE <b>2141.0</b>
Cat. no.		10	10	10
Type/colour	Multi-pole	AQI 95/5/11 YE <b>2107.0</b>	AQI 95/5/15 YE <b>2030.0</b>	AQI 75/6/11 YE <b>2481.0</b>
Cat. no.		10	10	10

Ratings	IEC	IEC	IEC
Rated current, A	27	27	27
Max. voltage with partition plate, V	-	-	-
Max. voltage without partition plate, V	-	-	-
Rated impulse voltage, kV   Contamination degree	- 3	- 3	- 3
Pitch, mm	5	5	6

Connection data			
Torque, Nm   Screw	-	-	-

Accessories	Page	Qty.	Page	Qty.	Page	Qty.
For terminal	Remarks		Remarks		Remarks	
Type						
Cat. no.						
	SRK 2,5/15	1	RK 2,5	1	RK 1,5-4/15	1
	SRK 2,5		RK 2,5/35/N/2Q		RK 1,5-4	2
	RKD 2,5		ZSRK 2,5...		RKB 4	
	IK 2,5		ZRK 2,5...		RKD 4	
	IKD 2,5		ZRKD 2,5...		BAK 4	
	BKA 2,5		ZIKD 2,5...		VMAK 2,5	
			ZTRK 2,5			
			ZIZA 1,5			
			SRK 2,5/2A			



AQI.../6/17	AQI.../8/11	AQI.../8/18	AQI.../10/18	AQI.../50
				
External cross-connection insulated	External cross-connection insulated	External cross-connection insulated	External cross-connection insulated	External cross-connection insulated

Qty.		Qty.		Qty.		Qty.		Qty.	
AQI 4/6/11 YE	50	AQI 2/8/11 YE	50	AQI 2/8/18 YE	50	AQI 2/8/18 YE	50	AQI 2/50 YE	5
<b>2064.0</b>		<b>2067.0</b>		<b>3440.8</b>		<b>3991.8</b>		<b>2763.2</b>	
AQI 3/6/17 YE	50	AQI 3/8/11 YE	50	AQI 3/8/18 YE	50	AQI 3/10/18 YE	50	AQI 3/50 YE	5
<b>2065.0</b>		<b>2068.0</b>		<b>3441.8</b>		<b>3992.8</b>		<b>2764.2</b>	
AQI 4/6/17 YE	10	AQI 4/8/11 YE	50	AQI 4/8/18 YE	50	AQI 4/10/18 YE	50		
<b>2066.0</b>		<b>2069.0</b>		<b>3442.8</b>		<b>3993.8</b>			
AQI 10/6/17 YE	10			AQI 10/8/18 YE	10	AQI 10/10/18 YE	10		
<b>2143.0</b>				<b>3443.8</b>		<b>3994.8</b>			
AQI 10/6/11 YE	10			AQI 60/8/18 YE	1	AQI 50/10/18 YE	1		
<b>2480.0</b>				<b>3444.8</b>		<b>3995.8</b>			

IEC	IEC	IEC	IEC	IEC
27	27	57	57	150
-	-	-	-	1000
-	-	-	-	1000
-3	-3	-3	-3	-3
6	8	8	10	20

-	-	-	-	-
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| Page Qty. |
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Remarks	Remarks	Remarks	Remarks	Remarks
RK 2,5-4 RK 2,5-4 ZR RK 2,5-4 ZRL TRK 1,5 SRK 4/2A	BAK 10 SRK 10/2A STK 1 STK 2 STKD 1	RK 6-10 KBL 6-10 SIK 10 PTK SRK 6/2A	SIK 10 Z SRK 10/2A	RK 50





# Uninsulated external cross-connection AQ | Bridgeable PEN power feed blocks

External cross-connection AQ	AQ	Bridgeable PEN power feed blocks	AQV
<p>External cross-connection make it possible to branch off the current for terminals which are not available in the middle of the terminal via a cross-connection channel. The <b>AQ 58</b> type is delivered as a 58-pole version. Its contact elements can easily be broken out by hand. The attachable insulation section IP is available for the <b>AQ 58</b>. When external cross-connections are used, the rated cross-section is reduced to the next smallest wire size.</p>		<p>When five-wire power supplies are connected to a mains supply, then a conductive connection must be established between the <b>SL</b> PE terminal and the <b>N</b> neutral terminal.</p> <p>The <b>AQV 2 PEN</b> external cross-connector fulfils this requirement.</p>	

	External cross-connection Uninsulated		Jumper PEN
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Type	Qty.	Qty.	Qty.
Type/colour <b>Cat. no.</b>			AQV 2 PE/N 10 <b>2181.0</b> 10
Type/colour <b>Cat. no.</b>			
Type/colour <b>Cat. no.</b>			AQV 2 PE/N 16 <b>2182.0</b> 10
Type/colour <b>Cat. no.</b>			
Type/colour <b>Cat. no.</b>			AQV 2 PE/N 35 <b>2183.0</b> 10
Type/colour <b>Cat. no.</b>			
Type/colour <b>Cat. no.</b>	AQ 58 straight <b>2477.0</b>	10	
Type/colour <b>Cat. no.</b>	AQ 58 angled 2478.0	10	
Type/colour <b>Cat. no.</b>			
Type/colour <b>Cat. no.</b>	IP 58 <b>2479</b>	10	

Ratings	IEC	IEC	IEC
Rated current, A	24		-
Max. voltage with partition plate, V			-
Max. voltage without partition plate, V			-
Rated impulse voltage, kV   Contamination degree			-
Pitch, mm	8		8,12,16

Connection data			
Torque, Nm   Screw	- -		- -

Accessories	Page Qty.	Page Qty.	Page Qty.
For terminal	Remarks	Remarks	Remarks
	Straight version RK 6-10 KBL 6-10		AQV 2 PE/N 10 for terminals SL 10/35 and RK 6-10 BU
	Angled version SIK 10 PTK		AQV 2 PE/N 16 for terminals SL 16/35 and RK 16 BU
			AQV 2 PE/N 35 for terminals SL 35/35 and RK 35 BU



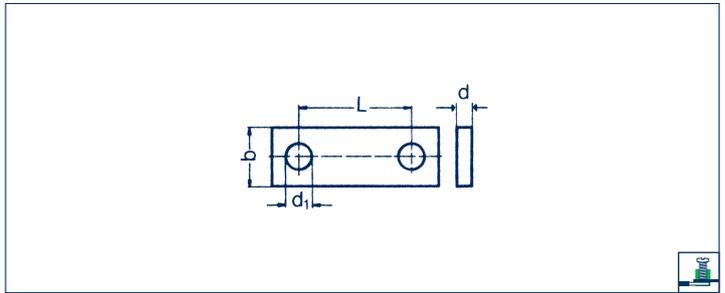
GENERAL ACCESSORIES

## Uninsulated cross-connections Q

### Screw connection system

#### Cross-connections Q / self-assembly

##### Cross-connections Q



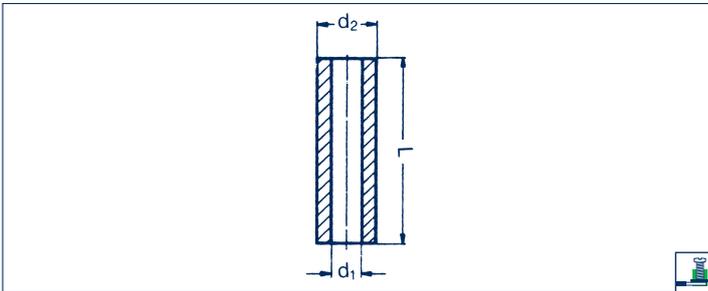
TYPE	For terminal DLI 2,5   DLIS 2,5	Cat. no.	Cross-section				
				TYPE	Cat. no.	Qty.	Dimensions, mm
SRK 2,5   IK 2,5   IKD 2,5				b	d	L	d1
Q 2		2832.0	2.5 mm <sup>2</sup>				
Q 3		2833.0	2.5 mm <sup>2</sup>				
Q 4		2834.0	2.5 mm <sup>2</sup>				
Q 10		2835.0	2.5 mm <sup>2</sup>				
Q 20		2836.0	2.5 mm <sup>2</sup>				
Q 0.5 m/83 poles		2154.0	2.5 mm <sup>2</sup>				
SRK 2,5   IK 2,5   IKD 2,5							
Q 2		2422.0	2.5 mm <sup>2</sup>				
Q 3		2423.0	2.5 mm <sup>2</sup>				
Q 4		2424.0	2.5 mm <sup>2</sup>				
Q 10		2425.0	2.5 mm <sup>2</sup>				
Q 20		2700.0	2.5 mm <sup>2</sup>				
Q 0.5 m/100 poles		2151.0	2.5 mm <sup>2</sup>				
RK 2,5   RKD 2,5							
Q 2		2567.0	2.5 mm <sup>2</sup>				
Q 3		2568.0	2.5 mm <sup>2</sup>				
Q 4		2569.0	2.5 mm <sup>2</sup>				
Q 10		2570.0	2.5 mm <sup>2</sup>				
Q 0.5 m/100 poles		2152.0	2.5 mm <sup>2</sup>				
RK 1,5-4   RKD 4							
Q 2		2087.0	4 mm <sup>2</sup>				
Q 3		2088.0	4 mm <sup>2</sup>				
Q 4		2089.0	4 mm <sup>2</sup>				
Q 10		2090.0	4 mm <sup>2</sup>				
Q 0.5 m/83 poles		2150.0	4 mm <sup>2</sup>				
RK 2,5-4							
Q 2		2019.0	4 mm <sup>2</sup>				
Q 3		2020.0	4 mm <sup>2</sup>				
Q 4		2021.0	4 mm <sup>2</sup>				
Q 10		2022.0	4 mm <sup>2</sup>				
Q 0.5 m/83 poles		2153.0	4 mm <sup>2</sup>				
RK 6-10							
Q 2		2060.0	10 mm <sup>2</sup>				
Q 3		2061.0	10 mm <sup>2</sup>				
Q 4		2062.0	10 mm <sup>2</sup>				
Q 10		2063.0	10 mm <sup>2</sup>				
RK 16							
Q 2		2112.0	16 mm <sup>2</sup>				
Q 3		2113.0	16 mm <sup>2</sup>				
Q 4		2114.0	16 mm <sup>2</sup>				
Q 10		2115.0	16 mm <sup>2</sup>				
RK 16 N							
Q 2		2257.0	16 mm <sup>2</sup>				
Q 3		2258.0	16 mm <sup>2</sup>				
Q 4		2265.0	16 mm <sup>2</sup>				
Q 10		2266.0	16 mm <sup>2</sup>				
RK 35							
Q 2		2164.0	35 mm <sup>2</sup>				
Q 3		2165.0	35 mm <sup>2</sup>				
Q 4		2166.0	35 mm <sup>2</sup>				
Q 10		2167.0	35 mm <sup>2</sup>				
Q 2 for SK 1/35			Caution: It is not possible to construct pre-assembled cross-connec- tion units.				
Q 3 for SK 1/35							
Q 4 for SK 1/35							
Q 10 for SK 1/35							

TYPE	Cat. no.	Qty.	Dimensions, mm			Required amount	
			b	d	L		d1
QS 2	2081.0	100	4,2	1	6	2.7	1
QS 3	2082.0	100	4,2	1	6	2.7	1
QS 4	2083.0	50	4,2	1	6	2.7	1
QS 10	2084.0	10	4,2	1	6	2.7	1
QS 20	2588.0	10	4,2	1	6	2.7	1
QS 0.5 m	2386.0	1	4,2	1	6	2.7	1
QS 2	2417.0	100	4,2	1	5	2.7	1
QS 3	2418.0	100	4,2	1	5	2.7	1
QS 4	2419.0	50	4,2	1	5	2.7	1
QS 10	2420.0	10	4,2	1	5	2.7	1
QS 20	2587.0	10	4,2	1	5	2.7	1
QS 0.5 m	2519.0	1	4,2	1	5	2.7	1
QS 2	2417.0	100	4,2	1	5	2.7	1
QS 3	2418.0	100	4,2	1	5	2.7	1
QS 4	2419.0	50	4,2	1	5	2.7	1
QS 10	2420.0	10	4,2	1	5	2.7	1
QS 0.5 m	2519.0	1	4,2	1	5	2.7	1
QS 2	2081.0	100	4,2	1	6	2.7	1
QS 3	2082.0	100	4,2	1	6	2.7	1
QS 4	2083.0	50	4,2	1	6	2.7	1
QS 10	2084.0	10	4,2	1	6	2.7	1
QS 0.5 m	2386.0	1	4,2	1	6	2.7	1
QS 2	2013.0	100	6	2	6	3.4	1
QS 3	2014.0	100	6	2	6	3.4	1
QS 4	2015.0	50	6	2	6	3.4	1
QS 10	2016.0	10	6	2	6	3.4	1
QS 0.5 m	2387.0	1	6	2	6	3.4	1
QS 2	2055.0	100	6	2	8	3.4	1
QS 3	2056.0	100	6	2	8	3.4	1
QS 4	2057.0	50	6	2	8	3.4	1
QS 10	2058.0	10	6	2	8	3.4	1
QS 2	2108.0	100	6	2	12	3.4	1
QS 3	2109.0	100	6	2	12	3.4	1
QS 4	2110.0	50	6	2	12	3.4	1
QS 10	2111.0	10	6	2	12	3.4	1
QS 2	2108.0	100	6	2	12	3.4	1
QS 3	2109.0	100	6	2	12	3.4	1
QS 4	2110.0	50	6	2	12	3.4	1
QS 10	2111.0	10	6	2	12	3.4	1
QS 2	2118.0	100	8	3	16	4.5	1
QS 3	2119.0	100	8	3	16	4.5	1
QS 4	2120.0	50	8	3	16	4.5	1
QS 10	2121.0	10	8	3	16	4.5	1
QS 2	2366.0	100	6	2	12	3.4	1
QS 3	2367.0	100	6	2	12	3.4	1
QS 4	2368.0	50	6	2	12	3.4	1
QS 10	2369.0	10	6	2	12	3.4	1

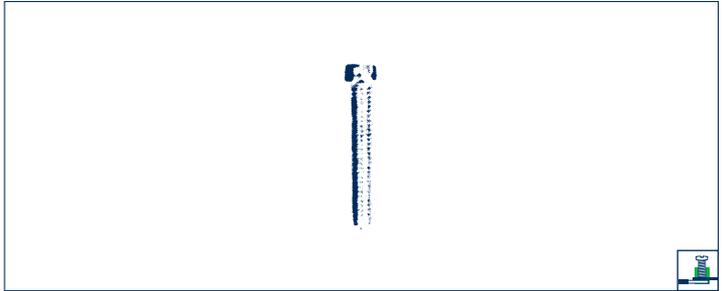
## Specific accessories, screw connection system

### Cross-connections Q (potential distribution)

#### Connecting sleeve VH



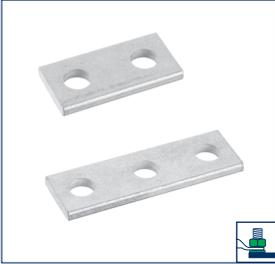
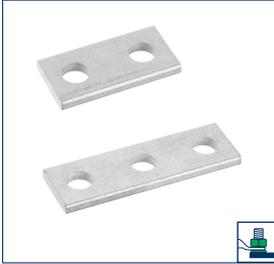
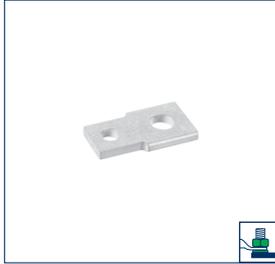
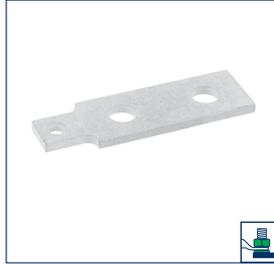
#### Mounting screw BS / SS



TYPE	Cat. no.	Qty.	Required amount	Dimensions, mm		
				L	d2	d1
VH 5	2327.0	100	2	5	4	2.8
VH 5	2327.0	100	3	5	4	2.8
VH 5	2327.0	100	4	5	4	2.8
VH 5	2327.0	100	10	5	4	2.8
VH 5	2327.0	100	20	5	4	2.8
VH 5	2327.0	100	100	5	4	2.8
<b>Separator</b>						
VH 5	2327.0	100	2	5	4	2.8
VH 5	2327.0	100	3	5	4	2.8
VH 5	2327.0	100	4	5	4	2.8
VH 5	2327.0	100	10	5	4	2.8
VH 5	2327.0	100	20	5	4	2.8
VH 5	2327.0	100	100	5	4	2.8
<b>Separator</b>						
VH 8,5	2085.0	100	2	8,5	4	2.8
VH 8,5	2085.0	100	3	8,5	4	2.8
VH 8,5	2085.0	100	4	8,5	4	2.8
VH 8,5	2085.0	100	10	8,5	4	2.8
VH 8,5	2085.0	100	100	8,5	4	2.8
<b>Separator</b>						
VH 8,5	2085.0	100	2	8,5	4	2.8
VH 8,5	2085.0	100	3	8,5	4	2.8
VH 8,5	2085.0	100	4	8,5	4	2.8
VH 8,5	2085.0	100	10	8,5	4	2.8
VH 8,5	2085.0	100	83	8,5	4	2.8
<b>Separator</b>						
VH 13.5	2017.0	100	2	13,5	5	3.5
VH 13.5	2017.0	100	3	13,5	5	3.5
VH 13.5	2017.0	100	4	13,5	5	3.5
VH 13.5	2017.0	100	10	13,5	5	3.5
VH 13.5	2017.0	100	83	13,5	5	3.5
<b>Separator</b>						
VH 12	2059.0	100	2	12	5	3.5
VH 12	2059.0	100	3	12	5	3.5
VH 12	2059.0	100	4	12	5	3.5
VH 12	2059.0	100	10	12	5	3.5
<b>Separator</b>						
VH 12	2059.0	100	2	12	5	3.5
VH 12	2059.0	100	3	12	5	3.5
VH 12	2059.0	100	4	12	5	3.5
VH 12	2059.0	100	10	12	5	3.5
<b>Separator</b>						
VH 8	2283.0	100	2	8	4,9	3.5
VH 8	2283.0	100	3	8	4,9	3.5
VH 8	2283.0	100	4	8	4,9	3.5
VH 8	2283.0	100	10	8	4,9	3.5
<b>Separator</b>						
VH 17	2122.0	50	2	17	8	5
VH 17	2122.0	50	3	17	8	5
VH 17	2122.0	50	4	17	8	5
VH 17	2122.0	50	10	17	8	5
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Type	Cat. no.	Qty.	Dimensions	Required amount
BS M2,5x10	2326.0	100	M2.5x10	2
BS M2,5x10	2326.0	100	M2.5x10	3
BS M2,5x10	2326.0	100	M2.5x10	4
BS M2,5x10	2326.0	100	M2.5x10	10
BS M2,5x10	2326.0	100	M2.5x10	20
BS M2,5x10	2326.0	100	M2.5x10	100
<b>Separator</b>				
BS M2,5x10	2326.0	100	M2.5x10	2
BS M2,5x10	2326.0	100	M2.5x10	3
BS M2,5x10	2326.0	100	M2.5x10	4
BS M2,5x10	2326.0	100	M2.5x10	10
BS M2,5x10	2326.0	100	M2.5x10	20
BS M2,5x10	2326.0	100	M2.5x10	100
<b>Separator</b>				
BS M2,5x14	2086.0	100	M2.5x14	2
BS M2,5x14	2086.0	100	M2.5x14	3
BS M2,5x14	2086.0	100	M2.5x14	4
BS M2,5x14	2086.0	100	M2.5x14	10
BS M2,5x14	2086.0	100	M2.5x14	100
<b>Separator</b>				
BS M2,5x14	2086.0	100	M2.5x14	2
BS M2,5x14	2086.0	100	M2.5x14	3
BS M2,5x14	2086.0	100	M2.5x14	4
BS M2,5x14	2086.0	100	M2.5x14	10
BS M2,5x14	2086.0	100	M2.5x14	83
<b>Separator</b>				
BS M3x20	2018.0	100	M3x20	2
BS M3x20	2018.0	100	M3x20	3
BS M3x20	2018.0	100	M3x20	4
BS M3x20	2018.0	100	M3x20	10
BS M3x20	2018.0	100	M3x20	83
<b>Separator</b>				
BS M3x20	2018.0	100	M3x20	2
BS M3x20	2018.0	100	M3x20	3
BS M3x20	2018.0	100	M3x20	4
BS M3x20	2018.0	100	M3x20	10
<b>Separator</b>				
BS M3x15 w. SS	2284.0	100	M3x15	2
BS M3x15 w. SS	2284.0	100	M3x15	3
BS M3x15 w. SS	2284.0	100	M3x15	4
BS M3x15 w. SS	2284.0	100	M3x15	10
<b>Separator</b>				
BS M4x30   SS M4	2123.0   2124.0	50 50	M4x30   M4	2 each
BS M4x30   SS M4	2123.0   2124.0	50 50	M4x30   M4	3 each
BS M4x30   SS M4	2123.0   2124.0	50 50	M4x30   M4	4 each
BS M4x30   SS M4	2123.0   2124.0	50 50	M4x30   M4	10 each
<b>Separator</b>				
BS M3x6	2365.0	100	M3x6	2
BS M3x6	2365.0	100	M3x6	3
BS M3x6	2365.0	100	M3x6	4
BS M3x6	2365.0	100	M3x6	10



QS../120	QS../120	QS 2 HSK 35/M6 - M8	QS 3 HSK 35/M6 - M10/2	
				
Cross-connection rail	Cross-connection rail	Cross-connection rail M6 to M8	Cross-connection rail M6 to M10	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
QS 2/120/10 <b>17014.0</b> 1	QS 2/120/12 <b>17016.0</b> 1	QS 2 HSK 35/M6 - M8 <b>17028.2</b> 1	QS 3 HSK 35/M6 - M10/2 <b>17029.2</b> 1	
QS 3/120/10 <b>17015.0</b> 1	QS 3/120/12 <b>17017.0</b> 1			
269	269	150	269	
1000	1000	1000	1000	
10.2	12.2	1 x 6.2 - 1 x 8.2	1 x 6.2 - 2 x 10.2	
34	34	-	-	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
HSK 120/M10 B HSK 120/M10 B/B	HSK 120/M12 B HSK 120/M12 B/B	HSK 35/M6 B HSK 35/M6 B/B	HSK 35/M6 B HSK 35/M6 B/B	
<b>QS 2</b>				
				
Cross-connection rail				
<b>Qty.</b>				
QS 2 <b>2413.0</b> 1				
309				
1000				
16.2				
50				
<b>Page Qty.</b>				
HSK 240 B HSK 240 B/B				

## Insulated cross-connections FQI (potential distribution)



The **FQI** pluggable cross-connection system helps you to save time while distributing potentials over terminal blocks of similar or different cross-sections. The pluggable design of the **FQI** offers the advantage that it can carry the rated current even while operating at the rated voltage of 800 V! The **FQI** is constructed to protect against accidental touch. It is available in 2 – 10 poles.

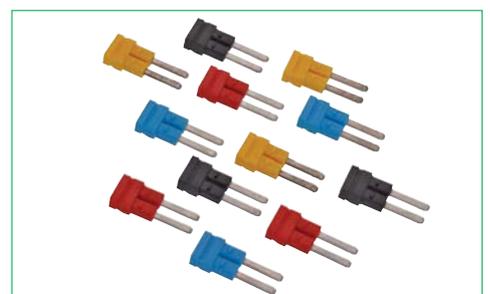
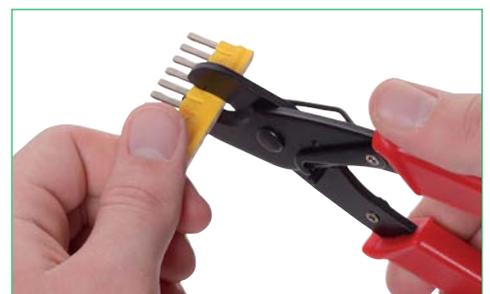
Parallel connections between various potentials, without loss of poles, is possible in the 1.5 mm<sup>2</sup>, 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> cross-section ranges.

With the standard terminal blocks, it is possible to skip over terminal blocks by breaking out individual contact poles.

The disconnected contact elements can be labelled by using the plastic insulation from the cross-connection.

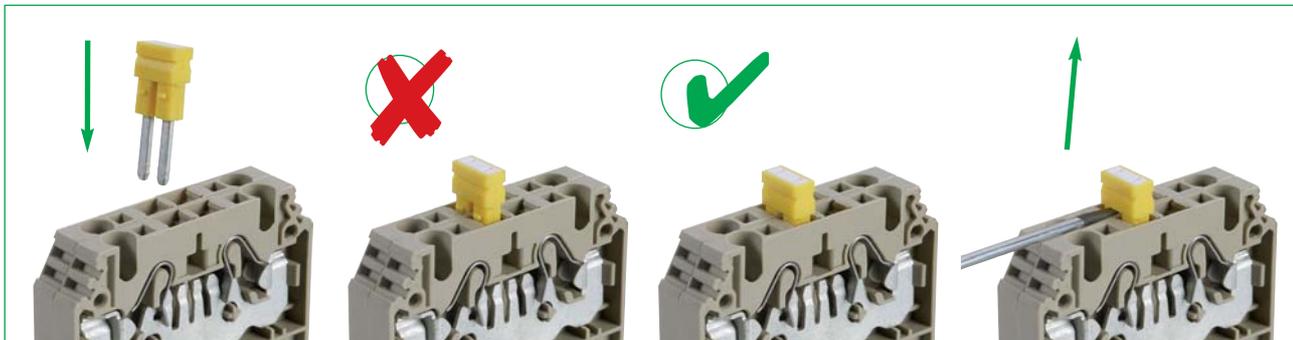
It is possible to shorten the cross-connection with a cutting tool, but you must then make sure that the cut side is fitted with an end plate so that the voltage rating is maintained. For standard terminal blocks in the cross-sections 1.5 mm<sup>2</sup>, 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>, it is adequate to attach the **FQI**s in an offset position (two cross-connection channels).

In order to help distinguish between different potentials, other colour variants are available for the **FQI 1,5**, **FQI 2,5** and **FQI 4** cross-connectors!



## Insulated cross-connections FQI (potential distribution)

### Usage of the FQI



### Cross-connection options



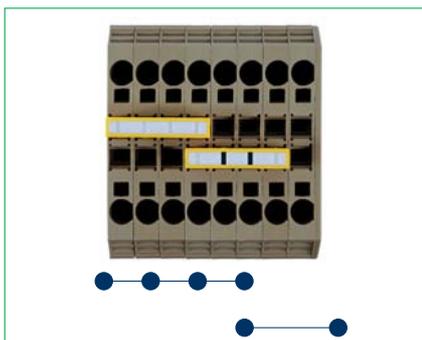
Simple



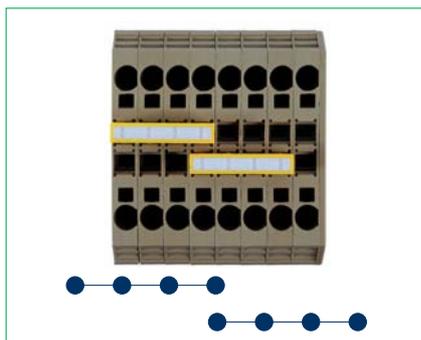
Side-by-side



Alternating



Parallel alternating



Parallel extended



Chain linked

## Insulated cross-connections FQI

**Cross-connections FQI**  
 The **FQI** cross-connections for the **FRK** pressure-spring connection system have a pluggable, insulated design. They can be used to conduct the rated current of the corresponding cross-section range.

The terminal block design and the variability of the cross-connector ensure excellent flexibility.



Cross-connection insulated

Cross-connection insulated

Cross-connection insulated

Type		FQI 1,5... Qty.	FQI 2,5... Qty.	FQI 2,5-4... Qty.			
Type/colour <b>Cat. no.</b>	2 poles	FQI 1,5/2 YE <b>3452.8</b>	50	FQI 2,5/2 YE <b>3462.8</b>	50	FQI 2,5-4/2 YE <b>3492.8</b>	50
Type/colour <b>Cat. no.</b>	3 poles	FQI 1,5/3 YE <b>3453.8</b>	50	FQI 2,5/3 YE <b>3463.8</b>	50	FQI 2,5-4/3 YE <b>3493.8</b>	50
Type/colour <b>Cat. no.</b>	4 poles	FQI 1,5/4 YE <b>3454.8</b>	20	FQI 2,5/4 YE <b>3464.8</b>	20	FQI 2,5-4/4 YE <b>3494.8</b>	20
Type/colour <b>Cat. no.</b>	5 poles	FQI 1,5/5 YE <b>3455.8</b>	20	FQI 2,5/5 YE <b>3465.8</b>	20	FQI 2,5-4/5 YE <b>3495.8</b>	20
Type/colour <b>Cat. no.</b>	6 poles	FQI 1,5/6 YE <b>3456.8</b>	20	FQI 2,5/6 YE <b>3466.8</b>	20	FQI 2,5-4/6 YE <b>3496.8</b>	20
Type/colour <b>Cat. no.</b>	7 poles	FQI 1,5/7 YE <b>3457.8</b>	20	FQI 2,5/7 YE <b>3467.8</b>	20	FQI 2,5-4/7 YE <b>3497.8</b>	20
Type/colour <b>Cat. no.</b>	8 poles	FQI 1,5/8 YE <b>3458.8</b>	10	FQI 2,5/8 YE <b>3468.8</b>	10	FQI 2,5-4/8 YE <b>3498.8</b>	10
Type/colour <b>Cat. no.</b>	9 poles	FQI 1,5/9 YE <b>3459.8</b>	10	FQI 2,5/9 YE <b>3469.8</b>	10	FQI 2,5-4/9 YE <b>3499.8</b>	10
Type/colour <b>Cat. no.</b>	10 poles	FQI 1,5/10 YE <b>3450.8</b>	10	FQI 2,5/10 YE <b>3460.8</b>	10	FQI 2,5-4/10 YE <b>3490.8</b>	10

Colours available	4 5 8 9	4 5 8 9	8
<b>Ratings</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>
Rated current, A	17.5	24	32
Max. voltage with partition plate, V	800	800	800
Max. voltage without partition plate, V	800	800	800
Rated impulse voltage, kV   Contamination degree	-  3	-  3	-  3
Pitch, mm	4	5	5

Connection data			

Accessories	Page Qty.	Page Qty.	Page Qty.

For terminal	Remarks	Remarks	Remarks
	FRK 1,5... FSL 1,5...	FRK 2,5... FSL 2,5... FRKD 2,5... FSLD 2,5... FTRK 2,5...	FDLIS 2,5-4...



## Insulated cross-connections ZQI (potential distribution)



The **ZQI** pluggable cross-connection system helps you to save time while distributing potentials over terminal blocks of similar or different cross-section ranges. The pluggable design of the **ZQI** offers the advantage that it can carry the rated current even while operating at the rated voltage! The **ZQI** is constructed to protect against accidental touch. It is available in 2 – 10 poles. It is available with up to 99 poles in the 2 mm<sup>2</sup> cross-section range.

Parallel connections between various potential, without loss of poles, is possible in the 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> cross-section ranges.

With the standard terminal blocks, it is possible to skip over terminal blocks by breaking out individual contact poles.

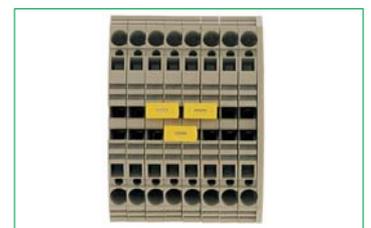
It is possible to shorten the cross-connection with a cutting tool, but you must then make sure that the cut side is fitted with an end plate so that the voltage rating is maintained. For standard terminal blocks in the cross-sections 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>, it is adequate to attach the **ZQIs** in an offset position (two cross-connection channels).

In the 10 mm<sup>2</sup> and 16 mm<sup>2</sup> cross-sections, cross-connections larger than two poles are implemented using the corresponding **ZQI/.../2** together with a chain link.

In order to help distinguish between different potentials, other colour variants are available for the **ZQI 2,5** and **ZQI 4** cross-connectors!

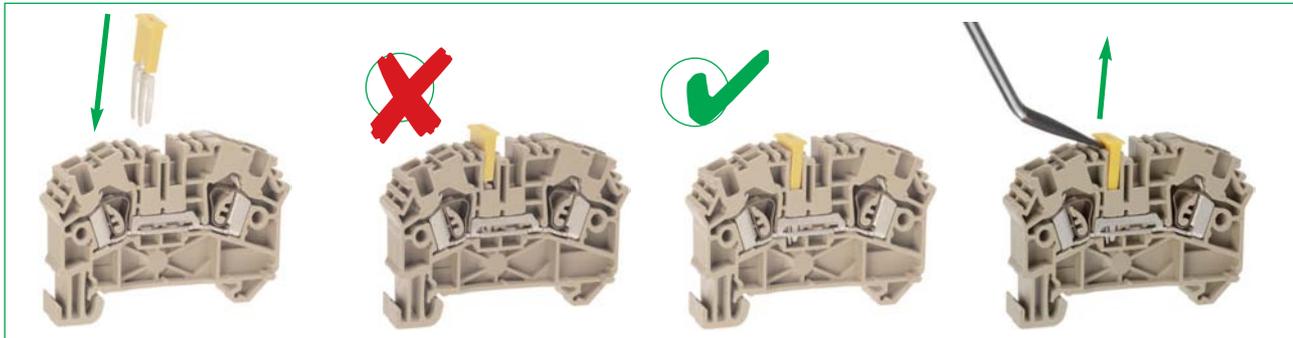
Important note:

Do not deform the shape of the **ZQIs** (do not take apart or press together).

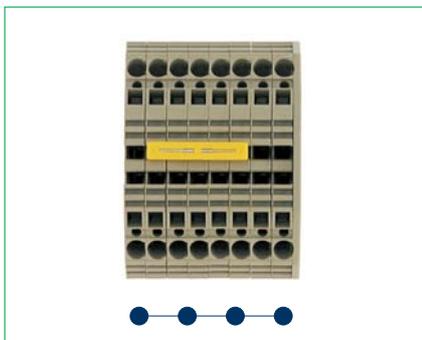


## Insulated cross-connections ZQI (potential distribution)

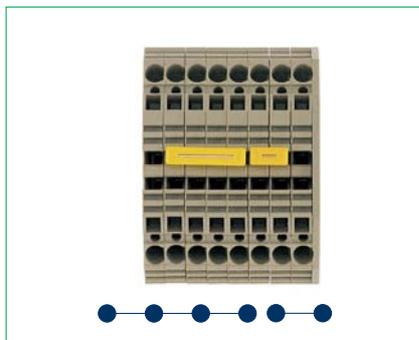
### Usage of ZQI



### Cross-connection options



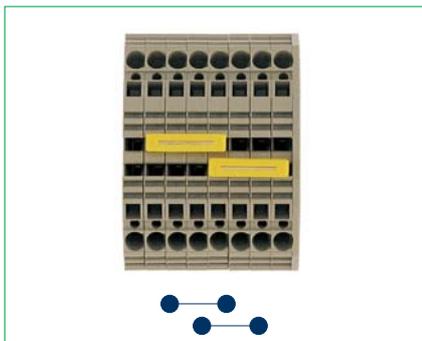
Simple



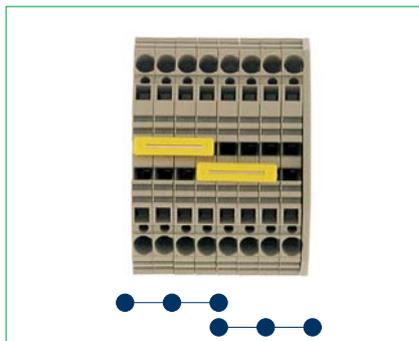
Side-by-side



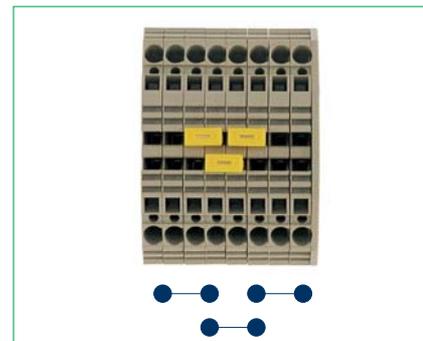
Alternating



Parallel alternating



Parallel extended



Chain linked

## Cross-connections ZQI | Vertical connector ZVQI | External insulated cross-connector AQI

### Overview of cross-connections available with tension-spring connection system

The cross-connections listed here can be used to connect up to twenty terminal blocks with each other. This flexible system helps you to save time during installation and thus also save money.

The **ZQI 2,5/99** is a many-pole pluggable cross-connector for all tension-spring terminals with rated cross-sections of 2.5 mm<sup>2</sup>. There is a captive connection between the insulation and the crest. The **ZQI 2,5/99** covers 99 poles. A suitable cutting tool can be used to shorten it to the required pole length.

The **ZVQI 2,5** vertical cross-connector provides a pluggable electrical connection between the levels of the **ZRKD** and **ZIKD**. When a vertical connector is inserted, it is still possible to make a cross-connection to the neighbouring terminal blocks.

### Insulated external cross-connector

External cross-connection bridges make it possible to branch off the potential for terminals which are not available in the middle of the terminal via a cross-connection channel. When external cross-connections are used, the rated cross-section is reduced to the next smallest wire size.

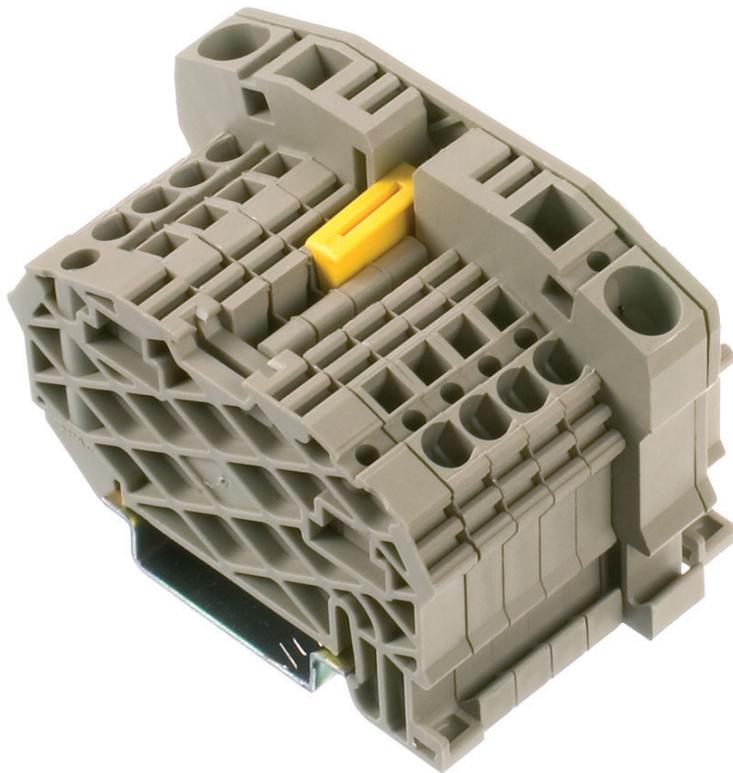
## Cross-connections ZQI (feeding potentials)

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It is possible to cross-connect large cross-section terminals to smaller ones. This allows for a simple distribution among different potential levels and cross-section levels.

The **ZQI** pluggable cross-connection system helps you to save time while distributing potentials over terminal blocks of similar or different cross-section ranges.



## Cross-connections ZQI (potential distribution)

The ZQI pluggable cross-connection system helps you to save time while distributing potentials over terminal blocks of similar or different cross-section ranges.

Feed-in with	Outlet through	Feed on left start	Feed on right end	
ZRK 2,5/2A (3500...)	ZRK 2,5/2A (3500...)	ZQI 2,5/...	not possible	
	ZRK 2,5/3A (3501...)	ZQI 2,5/...	not possible	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	ZQI 2,5/2	
	ZRK 4/2A (3515...)	ZQI 4/...	not possible	
	ZRK 4/3A (3516...)	ZQI 4/...	not possible	
	ZRK 4/4A (3517...)	ZQI 4/...	ZQI 4/2	
	ZRK 6/2A (3581...)	ZQI 4/2	ZQI 2,5/...	
ZRK 2,5/3A (3501...)	ZRK 2,5/2A (3500...)	not possible	ZQI 2,5/...	
	ZRK 2,5/3A (3501...)	ZQI 2,5/...	not possible	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	ZQI 2,5/2	
	ZRK 4/2A (3515...)	not possible	ZQI 2,5/2	
	ZRK 4/3A (3516...)	ZQI 4/...	not possible	
	ZRK 4/4A (3517...)	ZQI 4/...	ZQI 4/2	
	ZRK 6/2A (3581...)	not possible	ZQI 2,5/...	
ZRK 2,5/4A (3502...)	ZRK 2,5/2A (3500...)	not possible	ZQI 2,5/...	
	ZRK 2,5/3A (3501...)	not possible	ZQI 2,5/...	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	ZQI 2,5/2	
	ZRK 4/2A (3515...)	not possible	ZQI 2,5/2	
	ZRK 4/3A (3516...)	not possible	ZQI 2,5/2	
	ZRK 4/4A (3517...)	ZQI 4/...	ZQI 4/2	
	ZRK 6/2A (3581...)	not possible		
ZRK 4/2A (3515...)	ZRK 2,5/2A (3500...)	ZQI 2,5/...	ZQI 4/2	
	ZRK 2,5/3A (3501...)	ZQI 2,5/...	not possible	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	not possible	
	ZRK 4/2A (3515...)	ZQI 4/...	ZQI 4/...	
	ZRK 4/3A (3516...)	ZQI 4/...	not possible	
	ZRK 4/4A (3517...)	ZQI 4/...	not possible	
	ZRK 6/2A (3581...)	ZQI 4/2	ZQI 4/2	
ZRK 4/3A (3516...)	ZRK 2,5/2A (3500...)	not possible	ZQI 4/2	
	ZRK 2,5/3A (3501...)	ZQI 2,5/...	ZQI 4/2	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	not possible	
	ZRK 4/2A (3515...)	not possible	ZQI 4/...	
	ZRK 4/3A (3516...)	ZQI 4/...	ZQI 4/...	
	ZRK 4/4A (3517...)	ZQI 4/...	not possible	
	ZRK 6/2A (3581...)	not possible	ZQI 4/2	
ZRK 4/4A (3517...)	ZRK 2,5/2A (3500...)	not possible	ZQI 4/2	
	ZRK 2,5/3A (3501...)	not possible	ZQI 4/2	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	ZQI 4/2	
	ZRK 4/2A (3515...)	not possible	ZQI 4/...	
	ZRK 4/3A (3516...)	not possible	ZQI 4/...	
	ZRK 4/4A (3517...)	ZQI 4/...	ZQI 4/...	
	ZRK 6/2A (3581...)	not possible	ZQI 4/2	
ZRK 6/2A (3581...)	ZRK 2,5/2A (3500...)	ZQI 2,5/...	ZQI 4/2	
	ZRK 2,5/3A (3501...)	ZQI 2,5/...	not possible	
	ZRK 2,5/4A (3502...)	ZQI 2,5/...	not possible	
	ZRK 4/2A (3515...)	ZQI 4/...	ZQI 4/...	
	ZRK 4/3A (3516...)	ZQI 4/...	not possible	
	ZRK 4/4A (3517...)	ZQI 4/...	not possible	
	ZRK 6/2A (3581...)	not possible	ZQI 4/2	
ZRK 10/2A (3597...)	ZRK 2,5/2A (3500...)	not possible	ZQI 2,5/...	Remove second contact element on each!
	ZRK 2,5/3A (3501...)	not possible	ZQI 2,5/...	Remove second contact element on each!
	ZRK 2,5/4A (3502...)	not possible	ZQI 2,5/...	Remove second contact element on each!
	ZRK 4/2A (3515...)	not possible	not possible	
	ZRK 4/3A (3516...)	not possible	not possible	
	ZRK 4/4A (3517...)	not possible	not possible	
	ZRK 6/2A (3581...)	ZQI 6/...	ZQI 6,0/...	
	ZRK 10/2A (3597...)	ZQI 10/2	ZQI 10/2	
ZRK 16/2A (3636...)	ZRK 2,5/2A (3500...)	not possible	ZQI 2,5/...	Remove second contact element on each!
	ZRK 2,5/3A (3501...)	not possible	ZQI 2,5/...	Remove second contact element on each!
	ZRK 2,5/4A (3502...)	not possible	ZQI 2,5/...	Remove second contact element on each!
	ZRK 4/2A (3515...)	not possible	ZQI 4/...	Remove second contact element on each!
	ZRK 4/3A (3516...)	not possible	ZQI 4/...	Remove second contact element on each!
	ZRK 4/4A (3517...)	not possible	ZQI 4/...	Remove second contact element on each!
	ZRK 6/2A (3581...)	ZQI 6/...	ZQI 10/2	
	ZRK 10/2A (3597...)	ZQI 10/2	ZQI 16/2	
	ZRK 16/2A (3636...)	ZQI 16/2	ZQI 16/2	

## Insulated cross-connections ZQI/AQI/ZVQI

### Cross-connections ZQI | AQI | ZVQI

The cross-connections for the **ZRK** tension-spring connection system have a pluggable, insulated design. They can be used to conduct the rated current of the corresponding cross-section range.

The terminal block design and the variability of the cross-connector ensure excellent flexibility.

### ZQI 2,5...



Cross-connection insulated

### ZQI 2,5/99



Cross-connection insulated

### ZQI 4



Cross-connection insulated

Type		Qty.	Qty.	Qty.	
Type/colour <b>Cat. no.</b>	2 poles	ZQI 2,5/2 YE <b>3710.8</b>	50	ZQI 4/2 YE <b>3720.8</b>	50
Type/colour <b>Cat. no.</b>	3 poles	ZQI 2,5/3 YE <b>3711.8</b>	50	ZQI 4/3 YE <b>3721.8</b>	50
Type/colour <b>Cat. no.</b>	4 poles	ZQI 2,5/4 YE <b>3712.8</b>	20	ZQI 4/4 YE <b>3722.8</b>	20
Type/colour <b>Cat. no.</b>	5 poles	ZQI 2,5/5 YE <b>3713.8</b>	20	ZQI 4/5 YE <b>3723.8</b>	20
Type/colour <b>Cat. no.</b>	6 poles	ZQI 2,5/6 YE <b>3714.8</b>	20	ZQI 4/6 YE <b>3724.8</b>	20
Type/colour <b>Cat. no.</b>	7 poles	ZQI 2,5/7 YE <b>3715.8</b>	20	ZQI 4/7 YE <b>3725.8</b>	20
Type/colour <b>Cat. no.</b>	8 poles	ZQI 2,5/8 YE <b>3716.8</b>	10	ZQI 4/8 YE <b>3726.8</b>	10
Type/colour <b>Cat. no.</b>	9 poles	ZQI 2,5/9 YE <b>3717.8</b>	10	ZQI 4/9 YE <b>3727.8</b>	10
Type/colour <b>Cat. no.</b>	10 poles	ZQI 2,5/10 YE <b>3718.8</b>	10	ZQI 4/10 YE <b>3728.8</b>	10
Type/colour <b>Cat. no.</b>	99 poles			ZQI 2,5/0.5 w/99 poles YE <b>3719.8</b>	1

Colours available	4 5 8 9	4 5 8 9	4 5 8 9
Ratings	IEC	IEC	IEC
Rated current, A	24	24	32
Max. voltage with partition plate, V	800	800	800
Max. voltage without partition plate, V	800	800	800
Rated impulse voltage, kV   Contamination degree	-  3	-  3	-  3
Pitch, mm	5	5	6

Connection data			

Accessories	Page Qty.	Page Qty.	Page Qty.

For terminal	Remarks	Remarks	Remarks
	ZSRK 2,5... ZRK 2,5... ZRKD 2,5 ZIKD 2,5 ZTRK 2,5 ZIZA 1,5 RK 2,5/35N 2Q	ZSRK 2,5... ZRK 2,5... ZRKD 2,5 ZIKD 2,5 ZTRK 2,5 ZIZA 1,5 RK 2,5/35N 2Q	ZRK 4... ZRK 4...

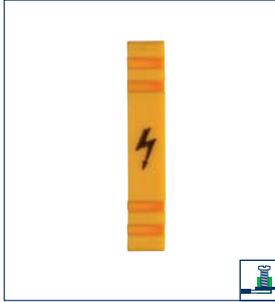
ZQI 6...	ZQI 10	ZQI 16	AQI.../5/15	ZVQI 2,5
				
Cross-connection insulated	Cross-connection insulated	Cross-connection insulated	External cross-connection insulated	Vertical connector insulated
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
ZQI 6/2 YE <b>3763.8</b>	ZQI 10/2 YE <b>3789.8</b>	ZQI 16/2 YE <b>3800.8</b>	AQI 2/5/15 YE <b>2023.0</b>	ZVQI 2,5 OG <b>3744.2</b>
ZQI 6/3 YE <b>3764.8</b>			AQI 3/5/15 YE <b>2024.0</b>	
ZQI 6/4 YE <b>3765.8</b>			AQI 4/5/15 <b>2028.0</b>	
ZQI 6/5 YE <b>3766.8</b>				
ZQI 6/6 YE <b>3767.8</b>				
ZQI 6/7 YE <b>3768.8</b>				
ZQI 6/8 YE <b>3769.8</b>				
ZQI 6/9 YE <b>3470.8</b>				
ZQI 6/10 YE <b>3471.8</b>			AQI 10/5/15 <b>2029.0</b>	
<b>4</b> <b>5</b> <b>8</b> <b>9</b>				
<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>	<b>IEC</b>
41	57	75	24	24
800	800	1000		800
800	800	1000		800
-  3	-  3	-  3	-  3	3
8	10	12		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>
ZRK 6...	ZRK 10...	ZRK 16...	ZSRK 2,5... ZRK 2,5... ZRKD 2,5 ZIKD 2,5 ZTRK 2,5 ZIZA 1,5	ZRKD 2,5 ZIKD 2,5

Individual covers EA | Individual and four-way covers AD

Individual covers EA | Individual and four-way covers AD

VDE regulations require that the mains terminals be covered. The **EA** and **AD** yellow covers (labelled with a lightning flash) are used to cover the operational channel and the cross-connection channel of the terminal. Thus they discourage operation of the terminal while live voltage is present. The **EA 1** and **AD 1** covers are snapped down on the terminal blocks. The **BS 1** marker pen or the **EMS** labelling system can be used to label the white variants. The **AD 4**, which is designed for four terminals of the corresponding cross-section size, is mechanically attached using two plastic screws. Two print variants (German and English (.../E)) are available.

EA 1...



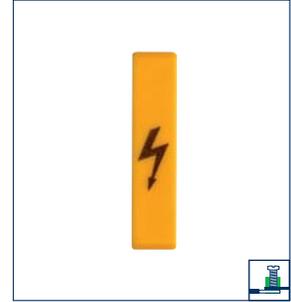
Individual cover, blank / Individual cover, with lightning flash symbol

AD 1/5



Individual cover, blank / Individual cover, with lightning flash symbol

AD 1/6



Individual cover, blank / Individual cover, with lightning flash symbol

Type	Print	Qty.	Print	Qty.	Print	Qty.
Type/colour <b>Cat. no.</b>	EA 1 BG <b>2703.2</b>	Blank 50	AD 1/5 WH <b>2962.0</b>	Blank 50	AD 1/6 WH <b>2965.0</b>	Blank 50
Type/colour <b>Cat. no.</b>	EA 1 WH <b>2703.7</b>	Blank 50	AD 1/5/N WH <b>2963.0</b>	Blank 50		
Type/colour <b>Cat. no.</b>	EA 1 YE <b>2703.8</b>	Blank 50				
Type/colour <b>Cat. no.</b>	EA 1/B BG <b>2803.2</b>	Lightning flash 50	AD 1/5/B YE <b>2952.0</b>	Lightning flash 50	AD 1/6/B YE <b>2953.0</b>	Lightning flash 50
Type/colour <b>Cat. no.</b>	EA 1/B WH <b>2803.7</b>	Lightning flash 50	AD 1/5/N/B YE <b>2964.0</b>	Lightning flash 50		
Type/colour <b>Cat. no.</b>	EA 1/B YE <b>2803.8</b>	Lightning flash 50				

Colours available	② ⑦ ⑧		
Ratings			
Width, mm	5	5	6

Labelling	Blank B lightning flash	Blank B lightning flash	Blank B lightning flash
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Accessories	Page	Qty.	Page	Qty.	Page	Qty.
Type/colour <b>Cat. no.</b>	PMC SB/50 WH <b>4600.7</b>	339	500			

For terminal	Remarks	Remarks	Remarks
	RK 2,5 RK 2,5-4 RK 6-10 RK 2,5-4 ZR RK 2,5-4 ZRL FF 2.5 SF 2,5-4 SL 2,5 SL 4 SL 10 SRK 2,5/2A SSL 2,5/2A	RK 2,5 KBL 2,5 RK 2,5 N 2Q SRK 2,5/2A SSL 2,5/2A AD 1/5 AD 1/5 A/D 1/5 N	RK 2,5-4 KBL 2,5-4 SRK 4/2A SSL 4/2A

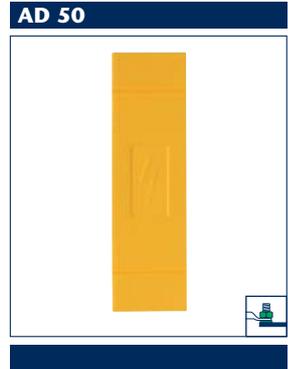
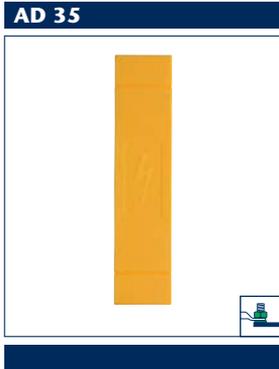
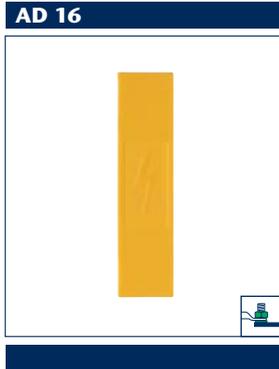




Individual covers AD | Protective hoods AH

**Individual covers AD**

The **AD** covers can be snapped on, simply and securely, to the matching clips in the **TW** partitions. In this quick and reliable way, touch-safe protection of the terminal points is always guaranteed.



Individual cover

Individual cover

Individual cover

Type	AD 16	AD 35	AD 50
Type/colour	AD 16 YE	AD 35 YE	AD 50 YE
Cat. no.	<b>17019.8</b>	<b>17020.8</b>	<b>17021.8</b>
	Qty. 20	Qty. 20	Qty. 20
Type/colour			
Cat. no.			
Type/colour			
Cat. no.			
Type/colour			
Cat. no.			
Type/colour			
Cat. no.			

Colours available	AD 16	AD 35	AD 50
<b>Ratings</b>	⑧	⑧	⑧
Width, mm	13	16	21
Length, mm	53	71	76
Material	PA 6.6 V0	PA 6.6 V0	PA 6.6 V0

Labelling	AD 16	AD 35	AD 50

Accessories	AD 16	AD 35	AD 50
Type/colour	TW 16-120 BG	TW 16-120 BG	TW 16-120 BG
Cat. no.	<b>17018.2</b>	<b>17018.2</b>	<b>17018.2</b>
	Page 316 Qty. 20	Page 316 Qty. 20	Page 316 Qty. 20
Type/colour	TW 35-120/B/B BG	TW 35-120/B/B BG	TW 35-120/B/B BG
Cat. no.	<b>17022.2</b>	<b>17022.2</b>	<b>17022.2</b>
	Page 316 Qty. 20	Page 316 Qty. 20	Page 316 Qty. 20

For terminal	AD 16	AD 35	AD 50
	HSK 16/M5 B	HSK 35/M6 B HSK 35/M6 B/B	HSK 50/M8 B HSK 50/M8 B/B



### Four-way covers FAD/ZAD

#### Four-way covers FAD | ZAD

VDE regulations require that the mains terminals be covered.

The yellow **FAD/ZAD** covers (labelled with a lightning flash) are used to cover the operational channel. Thus they discourage operation of the terminal while live voltage is present.

	FAD 1,5	FAD 2.5	FAD 4
			
	Four-way cover with Lightning flash	Four-way cover with Lightning flash	Four-way cover with lightning flash
<b>Type</b>			
Type/colour	FAD 1,5/4/B YE	FAD 2,5/4/B YE	FAD 4/4/B YE
<b>Cat. no.</b>	<b>3425.8</b>	<b>3426.8</b>	<b>3427.8</b>
	Qty. 20	Qty. 20	Qty. 20
Type/colour			
<b>Cat. no.</b>			
Colours available	⑧	⑧	⑧
<b>Ratings</b>			
Pitch, mm	4.1	5.1	6.1
Material	PA 6.6 V0	PA 6.6 V0	PA 6.6 V0
<b>Connection data</b>			
<b>Accessories</b>			
Type/colour			
<b>Cat. no.</b>			
<b>For terminal</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>
	FRK 1,5... FSL 1.5...	FRK 2,5... FSL 2,5... FRKD 2,5... FSLD 2,5... FDLIS 2,5-4... FTRK2,5...	FRK 4... FSL 4...

#### Labelling adapter FBA | ZBA

Pressure-spring connection system | Tension-spring connection system



	FBA 1	ZBA 1	ZBA 3
			
	Labelling adapter for double-level terminals	Labelling adapter for double-level terminals	Labelling adapter for multi-level terminals
<b>Type</b>			
Type/colour	FBA 1 BG	ZBA 1 BG	ZBA 3 BG
<b>Cat. no.</b>	<b>3424.2</b>	<b>3745.2</b>	<b>3813.2</b>
	Qty. 50	Qty. 20	Qty. 50
Colours available	②	②	②
<b>Ratings</b>			
Pitch, mm	5.1	5.1	5.1
Material	PA 6.6 V0	PA 6.6 V0	PA 6.6 V0
<b>Connection data</b>			
<b>Accessories</b>			
Type/colour			
<b>Cat. no.</b>			
	Page Qty.	Page Qty.	Page Qty.
	PMC SB/50 WH <b>4600.7</b> 339 500	PMC SB/50 WH <b>4600.7</b> 339 500	PMC SB/50 WH <b>4600.7</b> 339 500
<b>For terminal</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>
	FRKD 2,5...	ZRKD 2,5...	ZIKD 2,5...

ZAD 2,5	ZAD 4	ZAD 6	ZAD 10	ZAD 16
Four-way cover with lighting flash	Four-way cover with lighting flash	Four-way cover with lighting flash	Four-way cover with lighting flash	Four-way cover with Lightning flash
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
ZAD 2,5/4/B YE <b>3706.0</b> 20	ZAD 4/4/B YE <b>3707.0</b> 20	ZAD 6/4/B YE <b>3708.0</b> 20	ZAD 10/4/B YE <b>3709.0</b> 20	ZAD 16/4/B YE <b>3801.0</b> 20
⑧	⑧	⑧	⑧	⑧
5.1 PA 6.6 VO	6.1 PA 6.6 VO	8.1 PA 6.6 VO	10.1 PA 6.6 VO	12 PA 6.6 VO
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>
<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>
ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5... ZIZA 1,5...	ZRK 4... ZSL 4...	ZRK 10... ZSL 10...	ZRK 10... ZSL 10...	ZRK 16... ZSL 16...
ZBA 2	ZBA 2/Z	ZBA 2/Z/H	Cross-connection channel cover AD	AD Q
Labelling adapter for ZIZA   ZMP	Labelling adapter for ZIZA   ZMP	Labelling adapter for ZIZA   ZMP	For terminals of types <b>RK 2,5-4, RK 6-10, RK2,5-4 ZR, RK 2,5-4 ZRL, FF 2,5</b> and <b>SF 2,5-4</b> : 60mm long covers are available which can be used to provide touch protection for uninsulated cross-connections. The profile section is made from polyamide 6.6 and is delivered as either transparent or in white.	Covers Cross-connection channel
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Type</b>	<b>Qty.</b>
ZBA 2 BG <b>3786.2</b> 50	ZBA 2/Z BG <b>3787.2</b> 50	ZBA 2/Z/H BG <b>17036.2</b> 50	Type/colour <b>Cat. no.</b>	AD Q transparent <b>2499.0</b> 20 AD Q white <b>2499.7</b> 20
②	②	②	Colours available	⑦
5,1 PA 6.6 VO	5,1 PA 6.6 VO	5,1 PA 6.6 VO	<b>Ratings</b>	60 10
			Length, mm	
			Width, mm	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Connection data</b>	
PMC SB/50 WH <b>4600.7</b> 339 500	PMC SB/50 WH <b>4600.7</b> 339 500	PMC SB/50 WH <b>4600.7</b> 339 500	<b>Accessories</b>	
<b>Remarks</b>	<b>Remarks</b>	<b>Remarks</b>	Type/colour <b>Cat. no.</b>	
ZIZA 1,5/... ZMP 1,5...	ZIZA 1,5/... ZMP 1,5...	ZIZA 1,5/... ZMP 1,5...	<b>For terminal</b>	
				RK 2,5-4 FF 2.5 RK 6-10 SF 2,5-4 RK 2,5-4 ZR RK 35 RK 2,5-4 ZRL

## Partition plates TWMF/TW | Cover profile AD | Insulation plate TRS | Connecting sleeves VBS

### Cover profile AD combined with partition plates TWMF

Many safety requirements (for example, the “Electrical facilities and operating devices” accident prevention regulations (VBG 4) or VDE 0106 part 100/3.83) require that the active components of equipment are protected against direct touch. For terminals using **Q** cross-connectors or test

sockets, this protection is provided by additional covers. Cover profiles with assigned support plates are used for this purpose. They can be used with the main terminal sizes. The support plates can be positioned at the end or between groups of terminals. They can be attached to **TS 32** or **TS 35** rails.

#### Partition with foot TWMF

Cat. no.	Type	Colour	Qty.	Width	Material	Length	Height incl. TS 35x7.5
2957.2	TWMF BG	beige	20	2 mm	PA 6.6 V2	88 mm	70 mm
2957.5	TWMF BU	blue	20	2 mm	PA 6.6 V2	88 mm	70 mm
2957.3	TWMF OG	orange	20	2 mm	PA 6.6 V2	88 mm	70 mm



#### AD cover profile

Cat. no.	Type	Colour	Qty.	Width	Material	Length	Height incl. TS 35x7.5
2958.2	AD 3/1000 mm	transparent	1	1 m	Polycarbonate	90 mm	70 mm



### Partition plates TW

Partition plates must normally be used between uninsulated cross-connectors when making cross-connections. This is required in order to maintain the required creepage and clearance distances.

#### Partition plates TW

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2071.2	TW 1,5-4 BG	beige	50	1,5 mm	PA 6.6 V2	RK 1,5-4 RK 1,5-4/15 KBL 1,5-4 KBL 1,5-4/15 RKB 4 FF 1/15
2071.5	TW 1,5-4 BU	blue	50	1,5 mm	PA 6.6 V2	
2002.2	TW 2,5-10 BG	beige	50	1,5 mm	PA 6.6 V2	RK 2,5 KBL 2,5 RK 2,5-4 RK 6-10 KBL 2,5-4 KBL 6-10 SL 4
2002.5	TW 2,5-10 BU	blue	50	1,5 mm	PA 6.6 V2	SL 4/32 SL 10 SL 10/32 FF 2,5  SF 2,5-4
2002.3	TW 2,5-10 OG	orange	50	1,5 mm	PA 6.6 V2	SRK 2,5/2A   SSL 2,5/2A   SRK 4/2A   SSL 4/2A
2002.1	TW 2,5-10 GN	green	50	1,5 mm	PA 6.6 V2	SRK 6/2A   SSL 6/2A   SRK 10/2A   SSL 10/2A
2105.2	TW 16 BG	beige	20	1,5 mm	PA 6.6 V2	RK 16
2105.5	TW 16 BU	blue	20	1,5 mm	PA 6.6 V2	
2117.2	TW 35 BG	beige	20	1,5 mm	PA 6.6 V2	RK 35
2117.5	TW 35 BU	blue	20	1,5 mm	PA 6.6 V2	
2426.2	TW 2,5 BG	beige	50	1,5 mm	PA 6.6 V2	SRK 2,5
2428.2	TW 2,5/15 BG	beige	50	1,5 mm	PA 6.6 V2	SRK 2,5/15
2379.0	TW 71 BG	beige	1	2 mm	PA 6.6 V2	HSK 70/35 B/B   HSK 95/35 B/B
2380.0	TW 97 BG	beige	1	2 mm	PA 6.6 V2	HSK 70 B   HSK 95 B   HSK 150/35 B/B   HSK 240/35 B/B
1178.0	TW 138 BG	beige	1	2 mm	PA 6.6 V2	HSK 150 B   HSK 240 B
17018.2	TW 16-120 BG	beige	20	2 mm	PA 6.6 V0	HSK 16/M5 B   HSK 35/M6 B   HSK 50/M8 B   HSK 120/M10 B   HSK 120/M12 B
17022.2	TW 35-120/B/B BG	beige	20	2 mm	PA 6.6 V0	HSK 120/M10 B   HSK 120/M12 B   HSK 35/M6 B/B   HSK 50/M8 B/B   HSK 120/M10 B/B



### Insulation plate TRS

When using cross-connections, insulation plates are used for certain terminal types in order to maintain the required creepage and clearance distances. Insulation plates can retroactively be inserted between cross-connectors.

#### Insulation plate TRS

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2003.2	TRS 1 BG	beige	100		PA 6.6 V2	RK 2,5-4 RK 6-10 RK 16 KBL 2,5-4 KBL 6-10 PTK
2566.2	TRS 3 BG	beige	100		PA 6.6 V2	RK 1,5-4/15 KBL 1,5-4/15 RK 2,5 KBL 2,5 RK 1,5-4 KBL 1,5-4 RKD 2,5 KBLD 2,5 RKD 4 KBLD 4 DLIS 2,5 DLI 2,5



### Connecting sleeves VBS

Connecting sleeves for coupling two or three hinged levers from the fuse-disconnect terminals **STK 2** and **SIK 10** or **SIK 10 Z** and **STKD1**. The **VBS** plastic sleeves are pushed on to the sides of the hinged lever. They form a mechanical connection to two-pole or three-pole units. This makes it possible to simultaneously disconnect multi-pole circuits.

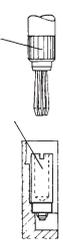
#### Connecting sleeve VBS

Cat. no.	Type	Colour	Qty.	Width	Material	For terminal
2873.3	VBS 2/10 OG	orange	100	16 mm	PA 6.6 V2	SIK 10   STK 2 / STKD1
2874.3	VBS 3/10 OG	orange	100	24 mm	PA 6.6 V3	SIK 10   STK 2 / STKD1
2875.3	VBS 2/10/Z OG	orange	100	20 mm	PA 6.6 V4	SIK 10/Z
2876.3	VBS 3/10/Z OG	orange	100	30 mm	PA 6.6 V5	SIK 10/Z



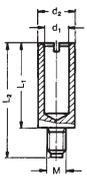
## Testing | Inspecting

The **PS 2.3** and **PS 4** test plugs can be used with screw-connection terminals in cross-sections ranges 2.5 mm<sup>2</sup> to 10 mm<sup>2</sup>. They allow you to connect to socket plugs and measure directly on the busbar of the corresponding terminal. In contrast to the **TA** test adapters, the **PS** test plugs do not mechanically lock with the terminal. The **ZS 2.3/4** adapter plug permits the conversion of a 4-mm Ø plug to a 2.3-mm Ø socket plug.

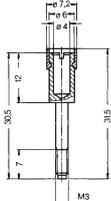
Test plug PS	PS 2.3	PS 4	ZS 2.3/4
			
<b>Type</b>			
Type/colour			
<b>Cat. no.</b>			
<b>When combined with socket plug</b>			
	<b>PS 2.3</b>	<b>PS 4</b>	<b>ZS 2.3/4</b>
	<b>2007.0</b>	<b>2051.0</b>	<b>2052.0</b>
	Qty. 20	Qty. 20	Qty. 10
	<b>2075.0</b> STB 8.5/2.3	<b>2050.0</b> STB 14/4	<b>2075.0</b> STB 8.5/2.3
	<b>2006.0</b> STB 14/2.3	<b>2127.0</b> STB 16/4	<b>2006.0</b> STB 14/2.3
	<b>2373.0</b> STB 6		<b>2373.0</b> STB 6
	<b>2374.0</b> STB 7		<b>2374.0</b> STB 7

### Socket plugs STB

The **STB** socket plug are attached to the busbar or screwed onto the terminals in place of a terminal screw. They are used for holding the **PS** test plugs.

Socket plug STB	STB									
										
<b>Cat. no.</b>	<b>Type</b>	<b>Qty.</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>L4</b>	<b>d1</b>	<b>d2</b>	<b>d3</b>	<b>M</b>
<b>2075.0</b>	STB 8.5/2.3	50	8.5	11.5			2.3	4		2.5
<b>2006.0</b>	STB 14/2.3	50	14	17.5			2.3	5		3
<b>2050.0</b>	STB 14/4	50	14	19			4	6		3
<b>2127.0</b>	STB 16/4	50	16	23			4	7		4
<b>2373.0</b>	STB 6	50	6	11.5			2.3	4		3
<b>2374.0</b>	STB 7	100	7	14.5			2.3	4		3

### Socket plug STB 30.5

Socket plug STB 30.5	STB 30.5									
										
<b>Cat. no.</b>	<b>Type</b>	<b>Qty.</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>L4</b>	<b>d1</b>	<b>d2</b>	<b>d3</b>	<b>M</b>
<b>2512.0</b>	STB 30.5 BK	50	30.5	7	12	31.5	4	6	7.2	3
<b>2513.0</b>	STB 30.5 GR	50	30.5	7	12	31.5	4	6	7.2	3
<b>2514.0</b>	STB 30.5 BU	50	30.5	7	12	31.5	4	6	7.2	3
<b>2515.0</b>	STB 30.5 RD	50	30.5	7	12	31.5	4	6	7.2	3
<b>2516.0</b>	STB 30.5 GN	50	30.5	7	12	31.5	4	6	7.2	3
<b>2517.0</b>	STB 30.5 YE	50	30.5	7	12	31.5	4	6	7.2	3
<b>2518.0</b>	STB 30.5 VT	50	30.5	7	12	31.5	4	6	7.2	3

Test adapter TA/TAD

Test adapter TA

The **TA** test adapters can be assembled to any pole counts using the locking pegs. They can be used to test assembled terminal blocks in a quick and safe manner. Wires with cross-sections ranging from 0.5 mm<sup>2</sup> to 1.0 mm<sup>2</sup> can be crimped or soldered to the spring-loaded tracer pins. Depending on the version, the test adapters establish contact with the screw head, the cross-connection or the busbar. The test adapter sets consist of a housing, spring and tracer pin.

TA 5/1N/Q



Test adapter, can be mounted side-by-side

TA 5/1/ST



Test adapter, can be mounted side-by-side

TA 5/1/Q



Test adapter, can be mounted side-by-side

Type	Qty.		Qty.		Qty.	
Type/colour	TA 5/1N/Q		TA 5/1/ST		TA 5/1/Q	
Cat. no.	<b>2811.0</b>	10	<b>2812.0</b>	10	<b>2823.0</b>	10
<b>Ratings</b>						
Pitch, mm	5		5		5	
Additional height for each terminal block, mm	23		35,5		35,5	
Length, mm	31		37,3		37,3	
<b>Connection data</b>						
Finely stranded, mm <sup>2</sup>	0.5 - 1		0.5 - 1		0.5 - 1	
Stripping length, mm	5		5		5	
<b>Accessories</b>	<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>	
Type/colour	PMC SB 5/50 WH		PMC SB 5/50 WH		PMC SB 5/50 WH	
Cat. no.	<b>4600.7</b>	339 500	<b>4600.7</b>	339 500	<b>4600.7</b>	339 500
<b>For terminal</b>	<b>Remarks</b>		<b>Remarks</b>		<b>Remarks</b>	
	RK 2,5/35N/2Q		RK 2,5		RK 2,5 With cross-connection Q	

Test adapter TAD



An end plate is also included with the **TAD** versions. All of the test adapters can be labelled using the **PMC** quick marking system.

TAD 5/1-S

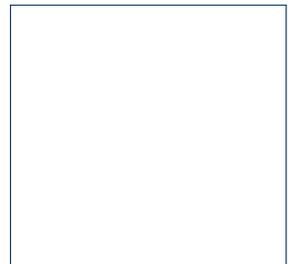


Test adapter, can be mounted side-by-side

TAD 6/1-S



Test adapter, can be mounted side-by-side



Type	Qty.		Qty.		Qty.	
Type/colour	TAD 5/1/S		TAD 6/1/S			
Cat. no.	<b>2821.0</b>	10	<b>2822.0</b>	10		
<b>Ratings</b>						
Pitch, mm	5.1		6.1			
Additional height for each terminal block, mm	0.13 - 0.2		0.25 - 0.5			
Length, mm	77.7		77.7			
<b>Connection data</b>						
Finely stranded, mm <sup>2</sup>	0.5 - 1		0.5 - 1			
Stripping length, mm	5		5			
<b>Accessories</b>	<b>Page Qty.</b>		<b>Page Qty.</b>		<b>Page Qty.</b>	
Type/colour	PMC SB 5/50 WH		PMC SB 6/50 WH			
Cat. no.	<b>4600.7</b>	339 500	<b>4702.7</b>	340 500		
<b>For terminal</b>	<b>Remarks</b>		<b>Remarks</b>			
	RKD 2,5		RKD 4			



## Test adapter ZTA | Reducing sleeve ZRH

**Test adapter ZTA**

The **ZTA** test adapters can be assembled to any pole counts using the locking pegs. They can be used to test assembled terminal block strips in a quick and safe manner.

Wire cross-sections ranging from 0.5 mm<sup>2</sup> to 1.0 mm<sup>2</sup> can be connected. Each tension-clamp terminal has a corresponding test point for establishing contact to the potential voltage on the busbar.

Test adapter ZTA	ZTA 1,5	ZTA 2,5	ZTA 4
			
	Test adapter, can be mounted side-by-side	Test adapter, can be mounted side-by-side	Test adapter, can be mounted side-by-side

Type	Qty.		Qty.		Qty.	
Type/colour	ZTA 1,5		ZTA 2,5		ZTA 4	
Cat. no.	<b>17034.2</b>	10	<b>3740.2</b>	10	<b>3741.2</b>	10
<b>Ratings</b>						
Pitch, mm	5.1		5.1		6.1	
Additional height for each terminal block, mm	31		31		31	
Length, mm	32.3		32,3		32.3	

Connection data	Page Qty.		Page Qty.		Page Qty.	
Finely stranded, mm <sup>2</sup>	0.5 - 1		0.5 - 1		0.5 - 1	
Stripping length, mm	5		5		5	

Accessories	Page Qty.		Page Qty.		Page Qty.	
Type/colour	PMC SB 5/50 WH		PMC SB 5/50 WH		PMC SB 6/50 WH	
Cat. no.	<b>4600.7</b>	339 500	<b>4600.7</b>	339 500	<b>4702.7</b>	340 500

For terminal	Remarks		Remarks		Remarks	
	ZIZA 1,5...		ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5...		ZRK 4... ZSL 4...	

Reducing sleeves ZRH	ZRH 2,5	ZRH 2,5	ZRH 2,5
			
	for wires from 0.13 - 0.2 mm <sup>2</sup>	for wires from 0.25 - 0.5 mm <sup>2</sup>	for wires from 0.75 - 1.0 mm <sup>2</sup>

Type	Qty.		Qty.		Qty.	
Type/colour	ZRH 2,5/0,13-0,2 WH		ZRH 2,5/0,25-0,5 GR		ZRH 2,5/0,75-1,0 BK	
Cat. no.	<b>3750.7</b>	1000	<b>3751.6</b>	1000	<b>3752.4</b>	1000
<b>Ratings</b>						
Pitch, mm	5.1		5.1		5.1	
Cross-section range, mm <sup>2</sup>	0.13 - 0.2		0.25 - 0.5		0.75 - 1	

Connection data	Page Qty.		Page Qty.		Page Qty.	

Accessories	Page Qty.		Page Qty.		Page Qty.	
Type/colour						
Cat. no.						

For terminal	Remarks		Remarks		Remarks	
	ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5... ZIZA 1,5...		ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5... ZIZA 1,5...		ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5... ZIZA 1,5...	



Test adapter, can be mounted side-by-side



Test adapter, can be mounted side-by-side



Test adapter, can be mounted side-by-side

**Test plug PS**

The **PS 2.3** test plugs allow you to make a direct measurement on the test point of the corresponding terminal when working with tension-spring terminals with cross-sections ranging from 2.5 and 4.0 mm<sup>2</sup>. In contrast to the **ZTA**, the **PS test plug** does not snap in mechanically with the terminal.



Test plug

Qty.	
ZTA 6	10
<b>3772.2</b>	
8.1	
31	
32.3	
0.5 - 1	
5	
Page	Qty.

Qty.	
ZTA 10	10
<b>3790.2</b>	
10.1	
31	
32.3	
0.5 - 1	
5	
Page	Qty.

Qty.	
ZTA 16	10
<b>3810.2</b>	
12	
31	
32.3	
0.5 - 1	
5	
Page	Qty.

Qty.	
PS 2.3	20
<b>2007.0</b>	
5.2	
22	
32	
0.5 - 1	
5	
Page	Qty.

PMC SB 6/50 WH  
**4702.7** 340 500

PMC SB 6/50 WH  
**4702.7** 340 500

PMC SB 6/50 WH  
**4702.7** 340 500

**Remarks**  
ZRK 6...  
ZSL 6...

**Remarks**  
ZRK 10...  
ZSL 10...

**Remarks**  
ZRK 16...  
ZSL 16...

**Remarks**  
ZSRK 2,5... ZIZA 1.5...  
ZSLN 2,5... ZRK 4...  
ZSL 2,5... ZSL 4...  
ZRKD 2,5...  
ZSLD 2,5...  
ZIKD 2,5...  
ZTRK 2,5...  
ZVMAK 2,5...



for wires from 0.13 - 0.2 mm<sup>2</sup>



for wires from 0.25 - 0.5 mm<sup>2</sup>



for wires from 0.75 - 1.0 mm<sup>2</sup>

Qty.	
ZRH 4/0,13-0,2 WH	100
<b>3753.7</b>	
6.1	
0.13 - 0.2	

Qty.	
ZRH 4/0,25-0.5 GR	1000
<b>3754.6</b>	
6.1	
0.25 - 0.5	

Qty.	
ZRH 4/0,75-1,0 BK	1000
<b>3755.4</b>	
6.1	
0.75 - 1.0	

**Page** **Qty.**

**Remarks**  
ZRK 4...  
ZSL 4...

**Page** **Qty.**

**Remarks**  
ZRK 4...  
ZSL 4...

**Page** **Qty.**

**Remarks**  
ZRK 4...  
ZSL 4...

## Fuse holder ZS

### Fuse holder ZS/.../.../ZTRK

The pluggable **ZS/.../.../ZTRK** fuse holders are available as versions with or without a status display. When combined with the **FTRK 2,5** and **ZTRK 2,5** base terminals, they provide great flexibility and simple handling.

### ZS/H0/ZTR



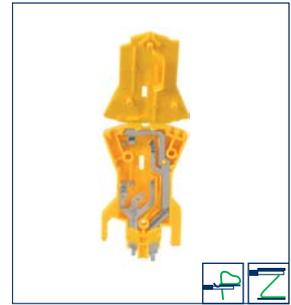
Fuse holders without status display

### ZS/H1/ZTR/36



Fuse holders 10-36 V with status display

### ZS/H2/ZTR/70



Fuse holders 35-70 V with status display

Type	ZS/H0/ZTR	ZS/H1/ZTR/36	ZS/H2/ZTR/70
Type/colour	ZS/H0/ZTR	ZS/H1/ZTR/36	ZS/H2/ZTR/70
Cat. no.	<b>3635.2</b>	<b>3631.2</b>	<b>3632.2</b>
Qty.	20	20	20
Type/colour			
Cat. no.			
Type/colour			
Cat. no.			
Type/colour			
Cat. no.			

Colours available	ZS/H0/ZTR	ZS/H1/ZTR/36	ZS/H2/ZTR/70
<b>Ratings</b>			
Pitch, mm	5.1	5.1	5.1
Rated voltage, V	0 - 400	10 - 36	35 - 70
Rated current, A	6.3	6.3	6.3
Residual current via LED, mA	-	<5	<5
Max. power loss on fuse, mA	1.6	1.6	1.6

Connection data	ZS/H0/ZTR	ZS/H1/ZTR/36	ZS/H2/ZTR/70
Fuse size	5 x 20	5 x 20	5 x 20

Accessories	ZS/H0/ZTR	ZS/H1/ZTR/36	ZS/H2/ZTR/70
Type/colour	PMC SB 5/50 WH	PMC SB 5/50 WH	PMC SB 5/50 WH
Cat. no.	<b>4600.7</b>	<b>4600.7</b>	<b>4600.7</b>
Page	339	339	339
Qty.	500	500	500

For terminal	ZS/H0/ZTR	ZS/H1/ZTR/36	ZS/H2/ZTR/70
	ZTRK 2,5... FTRK 2,5...	ZTRK 2,5... FTRK 2,5...	ZTRK 2,5... FTRK 2,5...



### Coding on fuses

Cat. no.	Type	Colour	Qty.	For terminal
<b>3170.5</b>	CS 0.5 A BU	blue	100	ZTRK 2,5/...OT
<b>3170.4</b>	CS 1 A BK	black	100	ZTRK 2,5/...OT
<b>3170.3</b>	CS 2 A GR	grey	100	ZTRK 2,5/...OT
<b>3170.0</b>	CS 3 A VT	violet	100	ZTRK 2,5/...OT
<b>3170.7</b>	CS 4 A PI	pink	100	ZTRK 2,5/...OT
<b>3170.2</b>	CS 5 A LB	bright	100	ZTRK 2,5/...OT
<b>3170.6</b>	CS 7.5 A BN	brown	100	ZTRK 2,5/...OT
<b>3170.9</b>	CS 10 A RD	brown	100	ZTRK 2,5/...OT
<b>3170.8</b>	CS 20 A YE	red	100	ZTRK 2,5/...OT
<b>3170.1</b>	CS 15 A CY	yellow	100	ZTRK 2,5/...OT



SI fuses

Micro-fuses/G-fuse cartridges 5 x 20 metric 250 V / slow-acting



Construction:

- Transparent glass tube
- Nickel-plated brass contact caps
- IEC 60127-2/2
- EN 60127-2/2
- DIN VDE 0820-2/2

Melting time limits

Rated current	1.5 x In		2.1 x In		2.75 x In		4 x In		10 x In	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
32 - 100 mA	1 h	2 min.	200 ms	10 s	40 ms	3 s	10 ms	300 s		
125 mA - 10 A	1 h	2 min.	600 ms	10 s	150 ms	3 s	20 ms	300 s		

Type	Cat. no.	Rated current, mA/A	Rated switch-off cap. A AC	Voltage drop mV	Power loss, W	Melting integral A <sup>2</sup> s	Qty.
SI 5x20 0.032 A	<b>2912.0</b>	32 mA	35 'L'	3000	0.2	0.010	10
SI 5x20 0.040 A	<b>2913.0</b>	40 mA	35 'L'	2000	0.2	0.020	10
SI 5x20 0.050 A	<b>2914.0</b>	50 mA	35 'L'	1500	0.2	0.035	10
SI 5x20 0.063 A	<b>2915.0</b>	63 mA	35 'L'	1000	0.2	0.05	10
SI 5x20 0.080 A	<b>2916.0</b>	80 mA	35 'L'	800	0.2	0.12	10
SI 5x20 0.100 A	<b>2917.0</b>	100 mA	35 'L'	700	0.3	0.16	10
SI 5x20 0.125 A	<b>2918.0</b>	125 mA	35 'L'	600	0.3	0.24	10
SI 5x20 0.160 A	<b>2919.0</b>	160 mA	35 'L'	600	0.3	0.4	10
SI 5x20 0.200 A	<b>2920.0</b>	200 mA	35 'L'	500	0.3	0.7	10
SI 5x20 0.250 A	<b>2921.0</b>	250 mA	35 'L'	400	0.2	1.4	10
SI 5x20 0.315 A	<b>2922.0</b>	315 mA	35 'L'	140	0.2	0.35	10
SI 5x20 0.400 A	<b>2923.0</b>	400 mA	35 'L'	130	0.2	0.49	10
SI 5x20 0.500 A	<b>2924.0</b>	500 mA	35 'L'	120	0.2	0.9	10
SI 5x20 0.630 A	<b>2925.0</b>	630 mA	35 'L'	110	0.2	1.4	10
SI 5x20 0.800 A	<b>2926.0</b>	800 mA	35 'L'	100	0.3	3.2	10
SI 5x20 1.000 A	<b>2927.0</b>	1 A	35 'L'	90	0.3	6.5	10
SI 5x20 1.250 A	<b>2928.0</b>	1.25 A	35 'L'	80	0.3	5.0	10
SI 5x20 1.600 A	<b>2929.0</b>	1.6 A	35 'L'	80	0.4	10	10
SI 5x20 2.000 A	<b>2930.0</b>	2 A	35 'L'	80	0.5	20	10
SI 5x20 2.500 A	<b>2931.0</b>	2.5 A	35 'L'	80	0.6	26	10
SI 5x20 3.150 A	<b>2932.0</b>	3.15 A	35 'L'	80	0.6	44	10
SI 5x20 4.000 A	<b>2933.0</b>	4 A	40 'L'	80	0.8	72	10
SI 5x20 5.000 A	<b>2934.0</b>	5 A	50 'L'	80	1.2	130	10
SI 5x20 6.300 A	<b>2935.0</b>	6.3 A	63 'L'	70	1.3	230	10
SI 5x20 8.000 A	<b>2936.0</b>	8 A	80 'L'	70	1.8	240	10
SI 5x20 10.00 A	<b>2937.0</b>	10 A	100 'L'	70	2.4	380	10

Micro-fuses/G-fuse cartridges 5 x 20 metric 250 V / fast-acting



Construction:

- Transparent glass tube
- Nickel-plated brass contact caps
- IEC 60127-2/2
- EN 60127-2/2
- DIN VDE 0820-2/2

Melting time limits

Rated current	1.5 x In		2.1 x In		2.75 x In		4 x In		10 x In	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
32 - 100 mA	1 h	30 min.	10 ms	500 ms	3 ms	100 ms	-	300 s		
125mA - 10 A	1 h	30 min.	50 ms	2 s	10 ms	300 ms	-	300 s		
8-10 A	1h	30 min.	50 ms	2 s	10 ms	400 ms	-	300 s		

Type	Cat. no.	Rated current, mA/A	Rated switch-off cap. A AC	Voltage drop mV	Power loss, W	Melting integral A <sup>2</sup> s	Qty.
SI 5x20 0,032 A	<b>2891.0</b>	32 mA	35 'L'	10000	0.8	0.0001	10
SI 5x20 0,040 A	<b>2892.0</b>	40 mA	35 'L'	8000	0.8	0.0002	10
SI 5x20 0,050 A	<b>2893.0</b>	50 mA	35 'L'	3500	0.4	0.0004	10
SI 5x20 0,063 A	<b>2894.0</b>	63 mA	35 'L'	3500	0.5	0.0007	10
SI 5x20 0,080 A	<b>2895.0</b>	80 mA	35 'L'	2500	0.5	0.0017	10
SI 5x20 0,100 A	<b>2896.0</b>	100 mA	35 'L'	2200	0.6	0.0022	10
SI 5x20 0,125 A	<b>2897.0</b>	125 mA	35 'L'	350	0.2	0.01	10
SI 5x20 0,160 A	<b>2898.0</b>	160 mA	35 'L'	310	0.2	0.02	10
SI 5x20 0,200 A	<b>2899.0</b>	200 mA	35 'L'	290	0.2	0.037	10
SI 5x20 0,250 A	<b>2900.0</b>	250 mA	35 'L'	280	0.3	0.073	10
SI 5x20 0,315 A	<b>2901.0</b>	315 mA	35 'L'	230	0.3	0.16	10
SI 5x20 0,400 A	<b>2902.0</b>	400 mA	35 'L'	200	0.3	0.31	10
SI 5x20 0,500 A	<b>2903.0</b>	500 mA	35 'L'	160	0.3	0.16	10
SI 5x20 0,630 A	<b>2904.0</b>	630 mA	35 'L'	140	0.3	0.39	10
SI 5x20 0,800 A	<b>2905.0</b>	800 mA	35 'L'	130	0.4	0.8	10
SI 5x20 1,000 A	<b>2406.0</b>	1 A	35 'L'	130	0.5	1.5	10
SI 5x20 1,250 A	<b>2906.0</b>	1.25 A	35 'L'	120	0.6	2.0	10
SI 5x20 1,600 A	<b>2907.0</b>	1.6 A	35 'L'	120	0.7	4.1	10
SI 5x20 2,000 A	<b>2407.0</b>	2 A	35 'L'	120	0.9	6.2	10
SI 5x20 2,500 A	<b>2908.0</b>	2.5 A	35 'L'	120	1.0	11	10
SI 5x20 3,150 A	<b>2909.0</b>	3.15 A	35 'L'	120	1.2	20	10
SI 5x20 4,000 A	<b>2408.0</b>	4 A	40 'L'	100	1.4	25	10
SI 5x20 5,000 A	<b>2938.0</b>	5 A	50 'L'	100	1.7	42	10
SI 5x20 6,300 A	<b>2409.0</b>	6.3 A	63 'L'	100	2.0	79	10
SI 5x20 8,000 A	<b>2910.0</b>	8 A	80 'L'	100	2.2	125	10
SI 5x20 10,00 A	<b>2911.0</b>	10 A	100 'L'	100	2.4	220	10

**Micro-fuses/G-fuse cartridges 6.3 x 32 imperial 250 V / 400 V / 500 V / slow-acting**



- Construction:
- Ceramic tube
  - Nickel-plated copper contact caps



**Melting time limits**

Rated c current	1.5 x In		2.1 x In		2.75 x In		4 x In		10 x In	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
32 - 100 mA	1 h	30 min.	400 ms	80 s	95 ms	5 s	10 ms	300 s		
125 mA - 10 A	1 h	30 min.	400 ms	80 s	150 ms	5 s	20 ms	300 s		

Type	Cat. no.	Rated current mA/A	Rated switch-off cap. A AC	Voltage drop, mV	Power loss W	Melting integral A <sup>2</sup> s	Qty.
SI 6,3x32 0,100 A/32 T	<b>4950.0</b>	100 mA		3600	1.3	0.050	10
SI 6,3x32 0,125 A/32 T	<b>4951.0</b>	125 mA		3400	1.4	0.080	10
SI 6,3x32 0,160 A/32 T	<b>4952.0</b>	160 mA		3000	1.5	0.12	10
SI 6,3x32 0,200 A/32 T	<b>4953.0</b>	200 mA	1,5 kA	2500	1.60	0.20	10
SI 6,3x32 0,250 A/32 T	<b>4954.0</b>	250 mA		2000	1.7	0.35	10
SI 6,3x32 0,315 A/32 T	<b>4955.0</b>	315 mA	@ 500 V AC	1800	1.8	0.50	10
SI 6,3x32 0,400 A/32 T	<b>4956.0</b>	400 mA		1600	2.0	0.80	10
SI 6,3x32 0,500 A/32 T	<b>4957.0</b>	500 mA	cos φ = 1	450	0.6	0.35	10
SI 6,3x32 0,630 A/32 T	<b>4958.0</b>	630 mA		400	0.7	0.49	10
SI 6,3x32 0,800 A/32 T	<b>4959.0</b>	800 mA		350	0.80	0.9	10
SI 6,3x32 1,000 A/32 T	<b>4960.0</b>	1 A		350	0.9	1.4	10
SI 6,3x32 1,250 A/32 T	<b>4961.0</b>	1.25 A	10 kA @ 400 V AC	300	1.0	3.2	10
SI 6,3x32 1,600 A/32 T	<b>4962.0</b>	1.6 A		200	1.1	5.2	10
SI 6,3x32 2,000 A/32 T	<b>4963.0</b>	2 A	cos φ = 0.3	180	1.2	10	10
SI 6,3x32 2,500 A/32 T	<b>4964.0</b>	2.5 A		160	1.3	19	10
SI 6,3x32 3,150 A/32 T	<b>4965.0</b>	3.15 A		150	1.4	37	10
SI 6,3x32 4,000 A/32 T	<b>4966.0</b>	4 A		140	1.5	68.0	10
SI 6,3x32 5,000 A/32 T	<b>4967.0</b>	5 A		135	2.2	80	10
SI 6,3x32 6,300 A/32 T	<b>4968.0</b>	6.3 A		110	2.2	215	10
SI 6,3x32 8,000 A/32 T	<b>4969.0</b>	8 A		110	2.6	370	10
SI 6,3x32 10,000 A/32 T	<b>4970.0</b>	10 A		100	3.0	620	10

**Micro-fuses/G-fuse cartridges 6.3 x 32 imperial 440 V / 500V / fast-acting**



- Construction:
- Ceramic tube
  - Nickel-plated brass contact caps



**Melting time limits**

Rated current	1.5 x In		2.1 x In		2.75 x In		4 x In		10 x In	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
160 - 800 mA	1 h	30 min.	20 ms	1.5 s	8 ms	400 ms	-	20 s		
1 - 25 A	1 h	30 min.	100 ms	5 s	20 ms	1 s	-	50 s		

When using these G-fuse cartridges with 6.3 A or higher, you must ensure that there is sufficient heat dissipation!

Type	Cat. no.	Rated current mA/A	Rated switch-off cap. A AC	Voltage drop mV	Power loss W	Melting integral A <sup>2</sup> s	Qty.
SI 6,3x32 0,160 A/32 F	<b>4971.0</b>	160 mA		7000	2.5	0.0015	10
SI 6,3x32 0,200 A/32 F	<b>4972.0</b>	200 mA		6500	2.9	0.0035	10
SI 6,3x32 0,250 A/32 F	<b>4973.0</b>	250 mA		6000	3.4	0.0085	10
SI 6,3x32 0,315 A/32 F	<b>4974.0</b>	315 mA	1,5 kA	1000	0.90	0.036	10
SI 6,3x32 0,400 A/32 F	<b>4975.0</b>	400 mA	@ 500 V AC	900	1	0.07	10
SI 6,3x32 0,500 A/32 F	<b>4976.0</b>	500 mA	cos φ = 1	800	1.1	0.19	10
SI 6,3x32 0,630 A/32 F	<b>4977.0</b>	630 mA		700	1.3	0.35	10
SI 6,3x32 0,800 A/32 F	<b>4978.0</b>	800 mA		600	1.4	0.49	10
SI 6,3x32 1,000 A/32 F	<b>4979.0</b>	1 A		400	1.2	0.4	10
SI 6,3x32 1,250 A/32 F	<b>4980.0</b>	1.25 A	50 kA	300	1.30	0.8	10
SI 6,3x32 1,600 A/32 F	<b>4981.0</b>	1.6 A	@ 500 V AC	300	1.4	1.5	10
SI 6,3x32 2,000 A/32 F	<b>4982.0</b>	2 A	cos φ = 1	280	1.6	2.5	10
SI 6,3x32 2,500 A/32 F	<b>4983.0</b>	2.5 A		260	1.8	5	10
SI 6,3x32 3,150 A/32 F	<b>4984.0</b>	3.15 A		240	2.3	9	10
SI 6,3x32 4,000 A/32 F	<b>4985.0</b>	4 A	20 kA	220	2.6	18	10
SI 6,3x32 5,000 A/32 F	<b>4986.0</b>	5 A	@ 500 V AC	190	2.9	40	10
SI 6,3x32 6,300 A/32 F	<b>4987.0</b>	6.3 A		170	3.2	80	10
SI 6,3x32 8,000 A/32 F	<b>4988.0</b>	8 A	1,5 kA	160	3.7	150	10
SI 6,3x32 10,000 A/32 F	<b>4989.0</b>	10 A	@ 500 V AC	150	4.0	240	10

**Motor vehicle fuses**

- Construction:
- Plastic body with 2 contact pins
  - DIN 72581-3C
  - Colour-coded amp values



**Note:**

- Spade fuses can only be run (the long-term load) with 80% of the fuse's rated current. Be sure to take the derating curve into consideration!
- The fuse may not be inserted or taken out while under load.
- You should use the largest wire section possible so that the thermal power loss of the fuse can be effectively discharged.
- Rated voltage 32 V DC

Type	Cat. no.	Colour code	Rated current	Voltage drop mV	Qty.
SI C 0,500 A/32V	<b>4990.0</b>	blue	0.5	300	100
SI C 1,000 A/32V	<b>4991.0</b>	black	1.0	130	100
SI C 2,000 A/32V	<b>4992.0</b>	grey	2.0	120	100
SI C 3,000 A/32V	<b>4993.0</b>	violet	3.0	100	100
SI C 4,000 A/32V	<b>4994.0</b>	pink	4.0	100	100
SI C 5,000 A/32V	<b>4995.0</b>	bright brown	5.0	120	100
SI C 7,500 A/32V	<b>4996.0</b>	brown	7.5	112	100
SI C 10,000 A/32V	<b>4997.0</b>	red	10	85	100
SI C 15,000 A/32V	<b>4998.0</b>	Cyan	15	85	100
SI C 20,000 A/32V	<b>4999.0</b>	yellow	20	80	100

## Specific accessories, test-disconnect terminals PTK

### Test-disconnect terminals PTK

Test-disconnect terminals are mostly used in the sectors of electricity generation and supply. They are tailored to the variety of switching demands for current-converter secondary circuits that predominate in these sectors.

CONTA-CLIP test-disconnect terminals are available in the following three basic versions, each with or without pre-assembled STB socket plugs

All versions provide touch-safety protection in compliance with VBG 4. A captive sliding partition is used to separate the current and voltage paths. The current switch position is always easy to detect since the disconnect screw has a yellow insulating sleeve. Sockets plugs for a test tap can be attached to all versions using the PS 4 test plug.

**1130.2 PTK 10/LT**  
can be separated lengthwise



**1132.2 PTK 10/QT**  
can be separated perpendicularly



**1134.2 PTK/10/DU**  
Feed-through terminal



**1131.2 PTK 10/LT/STB**  
can be separated lengthwise with STB



**1133.2 PTK 10/QT/STB**  
can be separated perpendicularly with STB



**1135.2 PTK 10/DU/STB**  
Feed-through terminal with STB



### Examples of basic circuits using PTK disconnect terminals

Current transformers must always have a secondary circuit when electricity meters and measuring instruments are being replaced, or when making comparative measurements. Otherwise they could be destroyed by "ramping up".

Measuring current using a current transformer	Operations	Swapping the measuring device	Testing the measuring device																								
<b>Required products</b> <table border="1"> <thead> <tr> <th>Type</th> <th>Cat. no.</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>PTK 10/LT</td> <td>1130.2</td> <td>1</td> </tr> <tr> <td>PTK 10/DU</td> <td>1134.2</td> <td>1</td> </tr> <tr> <td>AP/L/Q/D</td> <td>2782.2</td> <td>1</td> </tr> <tr> <td>STB 14/4</td> <td>2050.0</td> <td>2</td> </tr> <tr> <td>QVS 2</td> <td>2197.0</td> <td>1</td> </tr> <tr> <td>VH 19</td> <td>2238.0</td> <td>2</td> </tr> <tr> <td>STB 35</td> <td>2244.0</td> <td>2</td> </tr> </tbody> </table>	Type	Cat. no.	Quantity	PTK 10/LT	1130.2	1	PTK 10/DU	1134.2	1	AP/L/Q/D	2782.2	1	STB 14/4	2050.0	2	QVS 2	2197.0	1	VH 19	2238.0	2	STB 35	2244.0	2			
Type	Cat. no.	Quantity																									
PTK 10/LT	1130.2	1																									
PTK 10/DU	1134.2	1																									
AP/L/Q/D	2782.2	1																									
STB 14/4	2050.0	2																									
QVS 2	2197.0	1																									
VH 19	2238.0	2																									
STB 35	2244.0	2																									

Measuring current using a current transformer	Operations	Swapping the measuring device	Testing the measuring device															
<b>Required products</b> <table border="1"> <thead> <tr> <th>Type</th> <th>Cat. no.</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>PTK 10/QT</td> <td>1132.2</td> <td>3</td> </tr> <tr> <td>AP/L/Q/D</td> <td>2782.2</td> <td>1</td> </tr> <tr> <td>STB 14/4</td> <td>2050.0</td> <td>3</td> </tr> <tr> <td>QSB 3</td> <td>2784.0</td> <td>1</td> </tr> </tbody> </table>	Type	Cat. no.	Quantity	PTK 10/QT	1132.2	3	AP/L/Q/D	2782.2	1	STB 14/4	2050.0	3	QSB 3	2784.0	1			
Type	Cat. no.	Quantity																
PTK 10/QT	1132.2	3																
AP/L/Q/D	2782.2	1																
STB 14/4	2050.0	3																
QSB 3	2784.0	1																

**PTK terminal block for three-phase metering: the PTK enables meter testing, comparative measurements, and replacement of individual meters**

**Required products**

Type	Cat. no.	Quantity
PTK 10/LT	1130.2	3
PTK 10/QT	1132.2	6
PTK 10/DU	1134.2	4
AL/L/Q/D	2782.2	1
STB 14/4	2050.0	11
STB 30.5	2512.0	3
QS 2	2055.0	3
VH 12	2059.0	6
BS M 3x20	2018.0	3
QSB 2	2783.0	3

### Cross-switches

The **VH 19** connecting sleeves and the **BS 25** screws or the **STB 35** socket plugs are required for fastening the **QVS** cross-switch bridge. The screws and socket plugs are available with or without coloured labelling. When opened, the **QVS** slider and the screws for the wire connection are not accessible. Thus it is not possible to accidentally unclamp the measuring instrument.

Cross-switches		QI	QSB	QVS	VH 19
					
		Insulated cross-connector	Internal cross-switch bridge	Cross-switch bridge	Connecting sleeve
Type	Qty.	Type	Qty.	Type	Qty.
Type		QI 2 YE	QSB 2	QVS 2	VH 19
Cat. no.	50	2750.2	2783.0	2197.0	2238.0
Type		QI 3 YE	QSB 3	QVS 3	
Cat. no.	50	2751.2	2784.0	2198.0	
Type		QI 4 YE	QSB 4	QVS 4	
Cat. no.	50	2752.2	2785.0	2199.0	
Type		QI 10 YE			
Cat. no.	10	2753.2			

### Socket plugs

The **STB 35** socket plugs are used in the test-disconnect terminals for holding the **PS 4** test plug or the **KSS 2-8** short-circuit plug. The **STB 35** socket plugs can also be used when you need to test at the same time that a **QVS** is attached. The **STB 14/4** socket plugs can be screwed into the cross-connection channel. They are used to hold the **PS 4** test plugs or the **KSS 2-8** short-circuit plugs.

Socket plugs		STB 35	STB 14/4	BS25	BS25
					
		Socket plug	Socket plug	Mounting screw	Mounting screw
Type	Qty.	Type	Qty.	Type	Qty.
Type		STB 35 YE	STB 14/4	BS 25 YE	BS 25 without cap
Cat. no.	50	2244.0	2050.0	2241.0	2240.0
Type		STB 35 GN		BS 25 GN	
Cat. no.	50	2245.0		2242.0	
Type		STB 35 VT		BS 25 VT	
Cat. no.	50	2249.0		2243.0	
Type					
Cat. no.					

### Test plugs / Short-circuit plugs

The **PS 4** test plugs are used for the final testing of already-wired test circuits. A cross-connection between two **PTK** terminals can be established with the **KSS 2-8** short-circuit plug.

Test plugs		PS 4	KSS 2-8		
					
		Test plug	Short-circuit plug		
Type	Qty.	Type	Qty.		
Type		PS 4	KSS 2-8		
Cat. no.	20	2051.0	2886.0		
Type					
Cat. no.					
Type					
Cat. no.					

Actuating tools BWMA/BW

**Actuating tool BWMA/BW**

The spring terminals with 2.5-mm<sup>2</sup> cross-section can be operated using the **BW 1** to **BW 10** tools and the **BWMA** metallic tool.

The special **BW** tools allow you to open multiple terminal points simultaneously. The plastic actuating tool features improved safety when working on running facility sections.



Metal actuating tool

Metal actuating tool

Plastic actuating tool

Type	Qty.	Qty.	Qty.				
Type/colour <b>Cat. no.</b>	BWMA 1 (0.5x2.5) <b>3841.0</b>	1	BWMA 1 (0.5x3.5) <b>3808.0</b>	1	BW 1 (ZRK) <b>3778.0</b>	1 poles	1
Type/colour <b>Cat. no.</b>					BW 2 (ZRK) <b>3779.0</b>	2 poles	1
Type/colour <b>Cat. no.</b>					BW 3 (ZRK) <b>3780.0</b>	3 poles	1
Type/colour <b>Cat. no.</b>					BW 4 (ZRK) <b>3781.0</b>	4 poles	1
Type/colour <b>Cat. no.</b>					BW 5 (ZRK) <b>3782.0</b>	5 poles	1
Type/colour <b>Cat. no.</b>							
Type/colour <b>Cat. no.</b>							
Type/colour <b>Cat. no.</b>							
Type/colour <b>Cat. no.</b>							
Type/colour <b>Cat. no.</b>							

Ratings			
Blade size, mm	0.5	0.5	-
Blade width, mm	2.5	3.5	3.0
Blade length, mm	85	85	22.5

**Connection data**

Accessories	Page Qty.	Page Qty.	Page Qty.
For terminal	Remarks	Remarks	Remarks

Type/colour <b>Cat. no.</b>	FRK 2,5... FDLIS 2,5-4	ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5... ZIZA 1,5... ZRK 4... ZSL 4...	ZSRK 2,5... ZSLN 2,5... ZRK 2,5... ZSL 2,5... ZRKD 2,5... ZSLD 2,5... ZIKD 2,5... ZTRK 2,5... ZVMAK 2,5... ZIZA 1,5...



## CE electrical cabinet socket outlet STD-TS|LED

### CE electrical cabinet socket outlet STD-TS / LED



The **STD-TS / LED** electrical cabinet socket outlet can be quickly and conveniently snapped onto a standard TS35 rail using its solid metal foot.

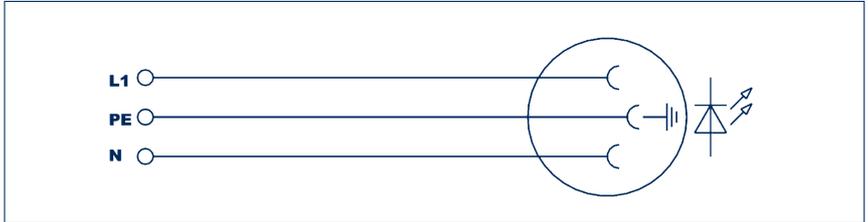
This results in significantly reduced assembly work and installation costs! The electrical connection uses an integral screw terminal and then offers a secure pluggable electrical connection for programming devices, service devices or mounting tools. A LED voltage display has also been integrated into the design.

### STD-TS / LED



### Circuit diagram

- Foot base can be snapped on TS 35 DIN rail
- Metal locking clip
- Screw connection
- Voltage displayed with green LED
- Housing made from polyamide 6.6 UL 94-V0



### Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Weight

### Type

Type Colour

Cat. no.

### General specifications

Rated voltage  $U_N$

Rated current  $I_N$

Indicators

Colour

Holding clamp

Insulation material

Ambient temperature (operating)

Ambient temperature (during storage/transport)

Standards / Specifications

### Screw connection

75 x 45 x 67

93 g

### Qty.

STD-TS / LED (GN) GR

**3196.2**

5

250 V AC

16 A AC

LED green with series resistor

grey RAL 7032

Metal

PA 6.6 UL 94-V0

-20 to +60 °C

-20 to +60 °C

Directive 2006/95/EG

DIN 49440-1

DIN VDE 0620-1 : 2010-02

### VDE

### Approvals

### Connection data

Solid wire cross-section, mm<sup>2</sup>

Stranded wire cross-section, mm<sup>2</sup>

Stranded wire with ferrules cross-section, mm<sup>2</sup>

Wire cross-section, AWG

Stripping length, mm

Screw threading

Torque Nm

0.2 - 4

0.2 - 2.5

0.2 - 2.5

24 - 12

8

M3

0.5 - 1

### Accessories

Markers

Cat. no.

### Page

### Qty.

MC GS 8/17 R/WH

**3321.7**

390

200



## CONTA-LABEL marking systems

Marking cables, connectors and devices to provide unambiguous, logically arranged and permanently legible identification helps to prevent mis-wiring, increases safety and reduces work levels, which in turn reduces manufacturing and maintenance costs including those caused by production down-times. These marking requirements are also specified in the European standard EN 60204 (VDE 0113 part 1).

In fulfilling all of these requirements, the **CONTA-CLIP** marker line offers a solution for all tasks involved with the marking of electrical equipment. We offer a wide variety of options for marking terminal blocks, cables, wires and devices: ready-to-use standard prints, blank markers for the customer to print himself as well as customized inscriptions.

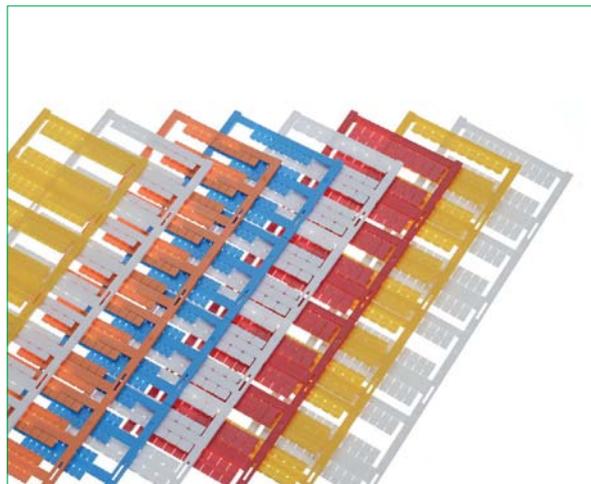


## CONTA-LABEL marking systems

### Overview

#### Terminal markers: starting at page 336

Our extensive line of products feature ready-to-use markers with standard and customized print (Pocket-Maxicard **PMC**), unprinted markers in the classic Maxicard format for DIY printing with the **EMS-2** plotter, and marker holders and group label holders in a variety of designs. The tables on pages 336 and 337 offer an overview of which markers can be snapped onto which terminals. The pitch size is the deciding factor when making the selection. With a terminal width of 5 mm, the marker must be 5 mm wide to enable strips of markers to be attached to the terminal. If the marker is to be attached to a terminal with a larger pitch, then the strips must be separated into individual markers.



#### Wire and cable markers: refer to page 364

The product line consists of markers for wires with small diameters and markers for cables with larger diameters. **CONTA-CLIP** offers a wide variety of solutions: these include open or closed markers, printed or blank for individual marking tasks, combinations of single markers with transparent sleeves or clip-on single markers with or without cable ties, markers for particularly aggressive environments or markers for environments in which halogen-free materials are obligatory. Our **EMS-2** plotter system allows you to conveniently print on practically all markers in Maxicard format, strips or single markers.



#### Wire and cable markers: refer to page 396

The product line includes markers for devices and systems manufactured by the major manufacturers. Markers based on classic adhesive techniques and snap-on markers are also available. The markers are available with custom print or as blank markers for marking with our **EMS-2** plotter system.



#### Labelling systems and software: refer to page 408

The **CONTA-CLIP** labelling software is easy to use, intuitive and suitable for all marking requirements. All integrated functions are user controlled and linked to our Online Help. The marking software facilitates manual entry of data via the keyboard. It supports numerous data formats and also allows data to be imported directly from the project file. Excellent user-friendly functionality makes our hardware easy to use. We offer a plotter system and a modular attachable engraving unit as well as a thermal transfer printer for printing on rolls of labels. The program is rounded off by a wide variety of accessories designed to facilitate easy handling in all application solutions.



## CONTA-LABEL marking systems

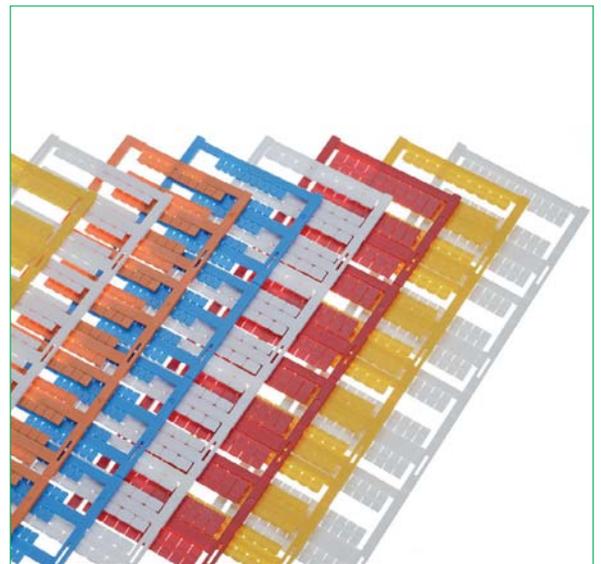
### Short description of materials

**CONTA-CLIP** marking systems are available in a variety of designs and materials. The numerous variants made of plastic and stainless steel are designed to suit the respective application. The material characteristics are described below.



#### **POLYAMIDE PA 6.6**

Polyamide 6.6 has good electrical and mechanical characteristics, high strength properties and is resistant to ageing. It is also highly ductile thanks to its semi-crystalline composition which allows it to absorb little moisture. This offers a clear advantage compared to polycarbonate material (PC). PC is less resistant to the strong substances used in industrial processes (such as cutting oil or cooling lubricants). PA 6.6 also is much more resistant than PC against solvents such as ketones, acetates, and aldehydes. PA 6.6 also features an improved resistance to UV radiation compared to PC. While PC quickly starts to turn yellow and is less impact resistant, PA 6.6 only exhibits a minimum reduction in UV surface stability. PA 6.6 also retains its colouring and technical characteristics much longer than PC.



**Products:**

**SB, PMC, Maxicard, AS labelling strips, Marker holders, group marker holders**

#### **PVC**

PVC is made from polyvinyl chloride and contains halogens. PVC has a longer service life and is resistant to the effects of weather, corrosive saline solutions, most acids and alkalis. Soft PVC contains plasticizer. The material is both strong and flexible. It can withstand temperatures from -30°C to +80°C.



**Products:**

**KBH, KBH-S, KBH-C, KH, KHE, KSH**

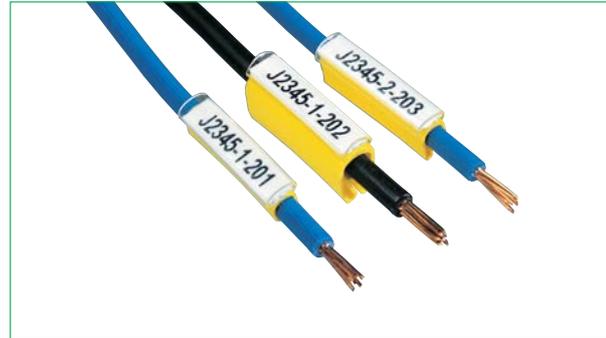
## CONTA-LABEL marking systems

### Short description of materials

#### ZEREX

This is a polyurethane mixture based on poly-ether (TPU). ZEREX is a halogen-free, flame-resistant extrusion mixture used mainly when specifications require good flame retardant properties and that smoke and toxin development is restricted. It can withstand temperatures from -30°C to +90°C.

**Products:**  
**KHZ**



#### Rust-free material

Stainless steel SS 2347 corresponds to AISI 316 and W. No. 1.4404. Acid-resistant steel contains a minimum of 17 % chrome, 11 % nickel and 2 % molybdenum. It is used chiefly where saline and damp conditions prevail and where corrosion resistance against acids is a requirement. It can withstand temperatures between -80°C to +500°C.

**Products:**  
**MPS, MPS H, CTS**



#### Polyester

This is an impact-resistant material that is resistant to chemicals, weak acids, UV radiation, salts and solvents. The material does not shrink and is suitable for permanent print on labels and markers. It can withstand temperatures from -40°C to +125°C.

**Products:**  
**KKE, GKE**







## Terminal markers – Pocket-Maxicard PMC SB

### Pocket-Maxicard PMC SB 4

The **PMC SB 4** Pocket-Maxicard is suitable for labelling all **CONTA-CLIP** terminal blocks that are wider than 4 mm.

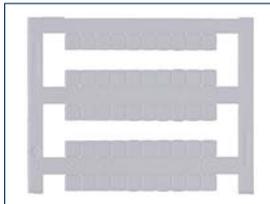
They are available in a variety of pre-printed standard markers, in a blank version, or custom printed to any requirement.

The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

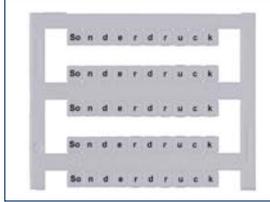
Material: Polyamide 6.6 UL 94-V2, halogen-free



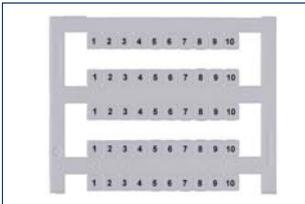
### PMC SB 4 WH



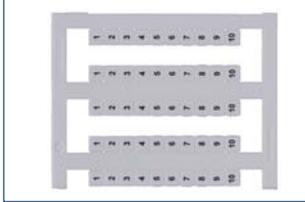
### PMC SB 4 So WH



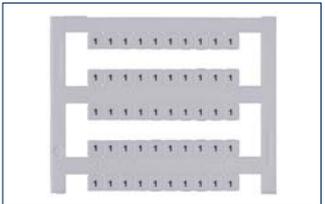
### PMC SB 4 FW



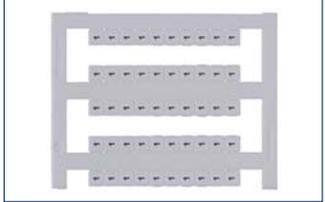
### PMC SB 4 FS



### PMC SB 4 GW



### PMC SB 4 GS



Type	Qty.
Type/colour <b>Cat. no.</b>	PMC SB 4/50 WH <b>4820.7</b> 500
Type/colour <b>Cat. no.</b>	Special print PMC SB 4/50 So WH <b>4821.7</b> 500

Colours available 7

### Characteristics

### Dimensions

Length x width, mm	5 x 4
Number of markers per row	10
Number of markers per card	50

### Material

Material	PA6.6, halogen-free
Temperature range	-40°C to +105°C
Flamm. class acc. to UL 94	V2

### Inscription

Printing process	Thermal transfer
Marker pen	BS-1
Number of characters   lines when using font size 1,6 and plotter pen 0.25: horizontal	2 2
Number of characters   lines when using font size 1,6 and plotter pen 0.25: vertical	3 1

### Application

Terminal width, mm	≥ 4,1
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PMC SB 4/...WH Pre-printed as shown Type	Cat. no.	PMC SB 4/...WH Pre-printed as shown Type	Cat. no.
PMC SB 4/50 FW 1-10	<b>4822.7</b>	PMC SB 4/50 FS 401-450	<b>4877.7</b>
PMC SB 4/50 FW 11-20	<b>4823.7</b>	PMC SB 4/50 FS 451-500	<b>4878.7</b>
PMC SB 4/50 FW 21-30	<b>4824.7</b>	PMC SB 4/50 FS 501-550	<b>4879.7</b>
PMC SB 4/50 FW 31-40	<b>4825.7</b>	PMC SB 4/50 FS 551-600	<b>4880.7</b>
PMC SB 4/50 FW 41-50	<b>4826.7</b>	PMC SB 4/50 FS 601-650	<b>4881.7</b>
PMC SB 4/50 FW 51-60	<b>4827.7</b>	PMC SB 4/50 FS 651-700	<b>4882.7</b>
PMC SB 4/50 FW 61-70	<b>4828.7</b>	PMC SB 4/50 FS 701-750	<b>4883.7</b>
PMC SB 4/50 FW 71-80	<b>4829.7</b>	PMC SB 4/50 FS 751-800	<b>4884.7</b>
PMC SB 4/50 FW 81-90	<b>4830.7</b>	PMC SB 4/50 FS 801-850	<b>4885.7</b>
PMC SB 4/50 FW 91-100	<b>4831.7</b>	PMC SB 4/50 FS 851-900	<b>4886.7</b>
PMC SB 4/50 FW 1-50	<b>4832.7</b>	PMC SB 4/50 FS L1,L2,L3,N,PE	<b>4887.7</b>
PMC SB 4/50 FW 51-100	<b>4833.7</b>	PMC SB 4/50 FS U1,V1,W1,N,PE	<b>4888.7</b>
PMC SB 4/50 FW 101-150	<b>4834.7</b>	PMC SB 4/50 FS U1,V1,W1	<b>4889.7</b>
PMC SB 4/50 FW 151-200	<b>4835.7</b>	PMC SB 4/50 FS U2,V2,W2,N,PE	<b>4890.7</b>
PMC SB 4/50 FW 201-250	<b>4836.7</b>	PMC SB 4/50 FS U2,V2,W2	<b>4891.7</b>
PMC SB 4/50 FW 251-300	<b>4837.7</b>	PMC SB 4/50 FS X1-X10	<b>4892.7</b>
PMC SB 4/50 FW 301-350	<b>4838.7</b>	PMC SB 4/50 FS 1,3, 5-19	<b>4893.7</b>
PMC SB 4/50 FW 351-400	<b>4839.7</b>	PMC SB 4/50 FS 2,4,6-20	<b>4894.7</b>
PMC SB 4/50 FW 401-450	<b>4840.7</b>		
PMC SB 4/50 FW 451-500	<b>4841.7</b>	PMC SB 4/50 GW 1	<b>4895.7</b>
PMC SB 4/50 FW 501-550	<b>4842.7</b>	PMC SB 4/50 GW 2	<b>4896.7</b>
PMC SB 4/50 FW 551-600	<b>4843.7</b>	PMC SB 4/50 GW 3	<b>4897.7</b>
PMC SB 4/50 FW 601-650	<b>4844.7</b>	PMC SB 4/50 GW 4	<b>4898.7</b>
PMC SB 4/50 FW 651-700	<b>4845.7</b>	PMC SB 4/50 GW 5	<b>4899.7</b>
PMC SB 4/50 FW 701-750	<b>4846.7</b>	PMC SB 4/50 GW 6	<b>4916.7</b>
PMC SB 4/50 FW 751-800	<b>4847.7</b>	PMC SB 4/50 GW 7	<b>4917.7</b>
PMC SB 4/50 FW 801-850	<b>4848.7</b>	PMC SB 4/50 GW 8	<b>4918.7</b>
PMC SB 4/50 FW 851-900	<b>4849.7</b>	PMC SB 4/50 GW 9	<b>4919.7</b>
PMC SB 4/50 FW 901-950	<b>4850.7</b>	PMC SB 4/50 GW 0	<b>4920.7</b>
PMC SB 4/50 FW L1,L2,L3,N,PE	<b>4851.7</b>	PMC SB 4/50 GW X	<b>4921.7</b>
PMC SB 4/50 FW U1,V1,W1,N,PE	<b>4852.7</b>	PMC SB 4/50 GW PE	<b>4922.7</b>
PMC SB 4/50 FW U1,V1,W1	<b>4853.7</b>	PMC SB 4/50 GW L1	<b>4923.7</b>
PMC SB 4/50 FW U2,V2,W2,N,PE	<b>4854.7</b>	PMC SB 4/50 GW L2	<b>4924.7</b>
PMC SB 4/50 FW U2,V2,W2	<b>4855.7</b>	PMC SB 4/50 GW L3	<b>4925.7</b>
PMC SB 4/50 FW X1-X10	<b>4856.7</b>	PMC SB 4/50 GW N	<b>4926.7</b>
PMC SB 4/50 FW 1,3, 5-19	<b>4857.7</b>	PMC SB 4/50 GW +	<b>4927.7</b>
PMC SB 4/50 FW 2,4,6-20	<b>4858.7</b>	PMC SB 4/50 GW -	<b>4928.7</b>
PMC SB 4/50 FS 1-10	<b>4859.7</b>	PMC SB 4/50 GS 1	<b>4929.7</b>
PMC SB 4/50 FS 11-20	<b>4860.7</b>	PMC SB 4/50 GS 2	<b>4930.7</b>
PMC SB 4/50 FS 21-30	<b>4861.7</b>	PMC SB 4/50 GS 3	<b>4931.7</b>
PMC SB 4/50 FS 31-40	<b>4862.7</b>	PMC SB 4/50 GS 4	<b>4932.7</b>
PMC SB 4/50 FS 41-50	<b>4863.7</b>	PMC SB 4/50 GS 5	<b>4933.7</b>
PMC SB 4/50 FS 51-60	<b>4864.7</b>	PMC SB 4/50 GS 6	<b>4934.7</b>
PMC SB 4/50 FS 61-70	<b>4865.7</b>	PMC SB 4/50 GS 7	<b>4935.7</b>
PMC SB 4/50 FS 71-80	<b>4866.7</b>	PMC SB 4/50 GS 8	<b>4936.7</b>
PMC SB 4/50 FS 81-90	<b>4867.7</b>	PMC SB 4/50 GS 9	<b>4937.7</b>
PMC SB 4/50 FS 91-100	<b>4868.7</b>	PMC SB 4/50 GS 0	<b>4938.7</b>
PMC SB 4/50 FS 1-50	<b>4869.7</b>	PMC SB 4/50 GS X	<b>4939.7</b>
PMC SB 4/50 FS 51-100	<b>4870.7</b>	PMC SB 4/50 GS PE	<b>4940.7</b>
PMC SB 4/50 FS 101-150	<b>4871.7</b>	PMC SB 4/50 GS L1	<b>4941.7</b>
PMC SB 4/50 FS 151-200	<b>4872.7</b>	PMC SB 4/50 GS L2	<b>4942.7</b>
PMC SB 4/50 FS 201-250	<b>4873.7</b>	PMC SB 4/50 GS L3	<b>4943.7</b>
PMC SB 4/50 FS 251-300	<b>4874.7</b>	PMC SB 4/50 GS N	<b>4944.7</b>
PMC SB 4/50 FS 301-350	<b>4875.7</b>	PMC SB 4/50 GS -	<b>4945.7</b>
PMC SB 4/50 FS 351-400	<b>4876.7</b>		

## Pocket-Maxicard PMC SB 5

The **PMC SB 5** Pocket-Maxicard is suitable for labelling all **CONTA-CLIP** terminal blocks that are wider than 5 mm.

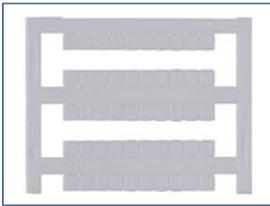
They are available in a variety of pre-printed standard markers, in a blank version, or custom printed to any requirement.

The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

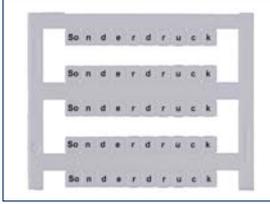
Material: Polyamide 6.6 UL 94-V2, halogen-free



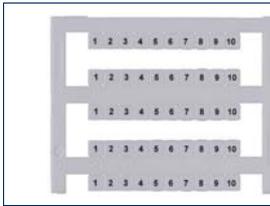
## PMC SB 5 WH



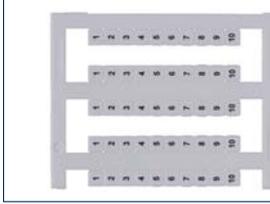
## PMC SB 5 So WH



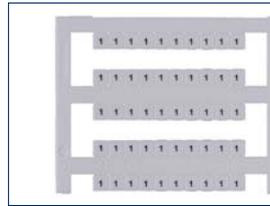
## PMC SB 5 FW



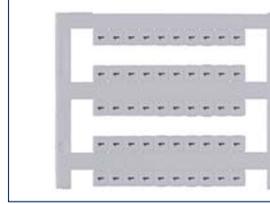
## PMC SB 5 FS



## PMC SB 5 GW



## PMC SB 5 GS



Type	Qty.
Type/colour <b>Cat. no.</b>	PMC SB 5/50 WH <b>4600.7</b> 500
Type/colour <b>Cat. no.</b>	Special print PMC SB 5/50 So WH <b>4819.7</b> 500

Colours available

**Characteristics**

**Dimensions**

Length x width, mm	5 x 5
Number of markers per row	10
Number of markers per card	50

**Material**

Material	PA6.6, halogen-free
Temperature range	-40°C to +105°C
Flamm. class acc. to UL 94	V2

**Inscription**

Printing process	Thermal transfer
Marker pen	BS-1
Number of characters   lines when using font size 1,6 and plotter pen 0.25: horizontal	3 2
Number of characters   lines when using font size 1,6 and plotter pen 0.25: vertical	3 2

**Application**

Terminal width, mm	≥ 5.1
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Type	Qty.
PMC SB 5/50 WH	4600.7 500
PMC SB 5/50 So WH	4819.7 500

PMC SB 5/...WH Pre-printed as shown	Cat. no.
PMC SB 5/50 FW 1-10	4601.7
PMC SB 5/50 FW 11-20	4602.7
PMC SB 5/50 FW 21-30	4603.7
PMC SB 5/50 FW 31-40	4604.7
PMC SB 5/50 FW 41-50	4605.7
PMC SB 5/50 FW 51-60	4606.7
PMC SB 5/50 FW 61-70	4607.7
PMC SB 5/50 FW 71-80	4608.7
PMC SB 5/50 FW 81-90	4609.7
PMC SB 5/50 FW 91-100	4610.7
PMC SB 5/50 FW 1-50	4611.7
PMC SB 5/50 FW 51-100	4612.7
PMC SB 5/50 FW 101-150	4613.7
PMC SB 5/50 FW 151-200	4614.7
PMC SB 5/50 FW 201-250	4615.7
PMC SB 5/50 FW 251-300	4616.7
PMC SB 5/50 FW 301-350	4617.7
PMC SB 5/50 FW 351-400	4618.7
PMC SB 5/50 FW 401-450	4619.7
PMC SB 5/50 FW 451-500	4620.7
PMC SB 5/50 FW 501-550	4621.7
PMC SB 5/50 FW 551-600	4622.7
PMC SB 5/50 FW 601-650	4623.7
PMC SB 5/50 FW 651-700	4624.7
PMC SB 5/50 FW 701-750	4625.7
PMC SB 5/50 FW 751-800	4626.7
PMC SB 5/50 FW 801-850	4627.7
PMC SB 5/50 FW 851-900	4628.7
PMC SB 5/50 FW 901-950	4629.7
PMC SB 5/50 FW 2,4,6-20	4817.7
PMC SB 5/50 FW 1,3,5-19	4818.7
PMC SB 5/50 FW L1,L2,L3,N,PE	4630.7
PMC SB 5/50 FW U1,V1,W1,N,PE	4631.7
PMC SB 5/50 FW U1,V1,W1	4632.7
PMC SB 5/50 FW U2,V2,W2,N,PE	4633.7
PMC SB 5/50 FW U2,V2,W2	4634.7
PMC SB 5/50 FW X1-X10	4635.7

PMC SB 5/...WH Pre-printed as shown	Cat. no.
PMC SB 5/50 FS 401-450	4654.7
PMC SB 5/50 FS 451-500	4655.7
PMC SB 5/50 FS 501-550	4656.7
PMC SB 5/50 FS 551-600	4657.7
PMC SB 5/50 FS 601-650	4658.7
PMC SB 5/50 FS 651-700	4659.7
PMC SB 5/50 FS 701-750	4660.7
PMC SB 5/50 FS 751-800	4661.7
PMC SB 5/50 FS 801-850	4662.7
PMC SB 5/50 FS 851-900	4663.7
PMC SB 5/50 FS 2,4,6-20	4815.7
PMC SB 5/50 FS 1,3,5-19	4816.7
PMC SB 5/50 FS L1,L2,L3,N,PE	4664.7
PMC SB 5/50 FS U1,V1,W1,N,PE	4665.7
PMC SB 5/50 FS U1,V1,W1	4666.7
PMC SB 5/50 FS U2,V2,W2,N,PE	4667.7
PMC SB 5/50 FS U2,V2,W2	4668.7
PMC SB 5/50 FS X1-X10	4669.7

PMC SB 5/50 FW 1-10	4601.7
PMC SB 5/50 FW 11-20	4602.7
PMC SB 5/50 FW 21-30	4603.7
PMC SB 5/50 FW 31-40	4604.7
PMC SB 5/50 FW 41-50	4605.7
PMC SB 5/50 FW 51-60	4606.7
PMC SB 5/50 FW 61-70	4607.7
PMC SB 5/50 FW 71-80	4608.7
PMC SB 5/50 FW 81-90	4609.7
PMC SB 5/50 FW 91-100	4610.7
PMC SB 5/50 FW 1-50	4611.7
PMC SB 5/50 FW 51-100	4612.7
PMC SB 5/50 FW 101-150	4613.7
PMC SB 5/50 FW 151-200	4614.7
PMC SB 5/50 FW 201-250	4615.7
PMC SB 5/50 FW 251-300	4616.7
PMC SB 5/50 FW 301-350	4617.7
PMC SB 5/50 FW 351-400	4618.7
PMC SB 5/50 FW 401-450	4619.7
PMC SB 5/50 FW 451-500	4620.7
PMC SB 5/50 FW 501-550	4621.7
PMC SB 5/50 FW 551-600	4622.7
PMC SB 5/50 FW 601-650	4623.7
PMC SB 5/50 FW 651-700	4624.7
PMC SB 5/50 FW 701-750	4625.7
PMC SB 5/50 FW 751-800	4626.7
PMC SB 5/50 FW 801-850	4627.7
PMC SB 5/50 FW 851-900	4628.7
PMC SB 5/50 FW 901-950	4629.7
PMC SB 5/50 FW 2,4,6-20	4817.7
PMC SB 5/50 FW 1,3,5-19	4818.7
PMC SB 5/50 FW L1,L2,L3,N,PE	4630.7
PMC SB 5/50 FW U1,V1,W1,N,PE	4631.7
PMC SB 5/50 FW U1,V1,W1	4632.7
PMC SB 5/50 FW U2,V2,W2,N,PE	4633.7
PMC SB 5/50 FW U2,V2,W2	4634.7
PMC SB 5/50 FW X1-X10	4635.7

PMC SB 5/50 FS 401-450	4654.7
PMC SB 5/50 FS 451-500	4655.7
PMC SB 5/50 FS 501-550	4656.7
PMC SB 5/50 FS 551-600	4657.7
PMC SB 5/50 FS 601-650	4658.7
PMC SB 5/50 FS 651-700	4659.7
PMC SB 5/50 FS 701-750	4660.7
PMC SB 5/50 FS 751-800	4661.7
PMC SB 5/50 FS 801-850	4662.7
PMC SB 5/50 FS 851-900	4663.7
PMC SB 5/50 FS 2,4,6-20	4815.7
PMC SB 5/50 FS 1,3,5-19	4816.7
PMC SB 5/50 FS L1,L2,L3,N,PE	4664.7
PMC SB 5/50 FS U1,V1,W1,N,PE	4665.7
PMC SB 5/50 FS U1,V1,W1	4666.7
PMC SB 5/50 FS U2,V2,W2,N,PE	4667.7
PMC SB 5/50 FS U2,V2,W2	4668.7
PMC SB 5/50 FS X1-X10	4669.7
PMC SB 5/50 GW 1	4670.7
PMC SB 5/50 GW 2	4671.7
PMC SB 5/50 GW 3	4672.7
PMC SB 5/50 GW 4	4673.7
PMC SB 5/50 GW 5	4674.7
PMC SB 5/50 GW 6	4675.7
PMC SB 5/50 GW 7	4676.7
PMC SB 5/50 GW 8	4677.7
PMC SB 5/50 GW 9	4678.7
PMC SB 5/50 GW 0	4679.7
PMC SB 5/50 GW X	4680.7
PMC SB 5/50 GW PE	4681.7
PMC SB 5/50 GW L1	4682.7
PMC SB 5/50 GW L2	4683.7
PMC SB 5/50 GW L3	4684.7
PMC SB 5/50 GW N	4685.7
PMC SB 5/50 GW -	4813.7
PMC SB 5/50 GW +	4814.7

PMC SB 5/50 FS 1-10	4636.7
PMC SB 5/50 FS 11-20	4637.7
PMC SB 5/50 FS 21-30	4638.7
PMC SB 5/50 FS 31-40	4639.7
PMC SB 5/50 FS 41-50	4640.7
PMC SB 5/50 FS 51-60	4641.7
PMC SB 5/50 FS 61-70	4642.7
PMC SB 5/50 FS 71-80	4643.7
PMC SB 5/50 FS 81-90	4644.7
PMC SB 5/50 FS 91-100	4645.7
PMC SB 5/50 FS 1-50	4646.7
PMC SB 5/50 FS 51-100	4647.7
PMC SB 5/50 FS 101-150	4648.7
PMC SB 5/50 FS 151-200	4649.7
PMC SB 5/50 FS 201-250	4650.7
PMC SB 5/50 FS 251-300	4651.7
PMC SB 5/50 FS 301-350	4652.7
PMC SB 5/50 FS 351-400	4653.7

PMC SB 5/50 GS 1	4686.7
PMC SB 5/50 GS 2	4687.7
PMC SB 5/50 GS 3	4688.7
PMC SB 5/50 GS 4	4689.7
PMC SB 5/50 GS 5	4690.7
PMC SB 5/50 GS 6	4691.7
PMC SB 5/50 GS 7	4692.7
PMC SB 5/50 GS 8	4693.7
PMC SB 5/50 GS 9	4694.7
PMC SB 5/50 GS 0	4695.7
PMC SB 5/50 GS X	4696.7
PMC SB 5/50 GS PE	4697.7
PMC SB 5/50 GS L1	4698.7
PMC SB 5/50 GS L2	4699.7
PMC SB 5/50 GS L3	4700.7
PMC SB 5/50 GS N	4701.7
PMC SB 5/50 GS -	4812.7

## Terminal markers – Pocket-Maxicard PMC SB

### Pocket-Maxicard PMC SB 6

The **PMC SB 6** Pocket-Maxicard is suitable for labelling all **CONTA-CLIP** terminal blocks that are wider than 6 mm.

They are available in a variety of pre-printed standard markers, in a blank version, or custom printed to any requirement.

The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

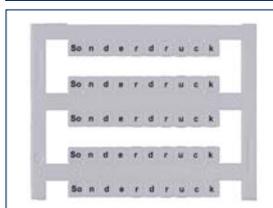
Material: Polyamide 6.6 UL 94-V2, halogen-free



### PMC SB 6 WH



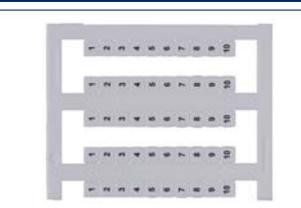
### PMC SB 6 So WH



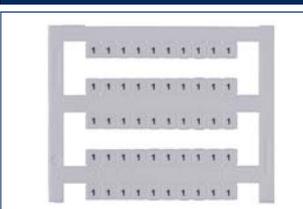
### PMC SB 6 FW



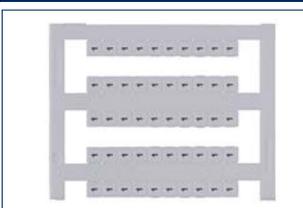
### PMC SB 6 FS



### PMC SB 6 GW



### PMC SB 6 GS



Type	Qty.
Type/colour	
<b>Cat. no.</b>	
Type/colour	Special print
<b>Cat. no.</b>	

PMC SB 6/50 WH	<b>4702.7</b>	500
PMC SB 6/50 So WH	<b>4811.7</b>	500

### Colours available

⑦

### Characteristics

### Dimensions

Length x width, mm	5 x 6
Number of markers per row	10
Number of markers per card	50

### Material

Material	PA6.6, halogen-free
Temperature range	-40°C to +105°C
Flamm. class acc. to UL 94	V2

### Inscription

Printing process	Thermal transfer
Marker pen	BS-1
Number of characters   lines when using font size 1,6 and plotter pen 0.25: horizontal	3 2
Number of characters   lines when using font size 1,6 and plotter pen 0.25: vertical	3 2

### Application

Terminal width, mm	≥ 6
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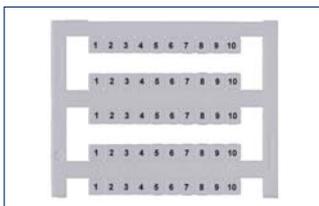
### PMC SB 6/...WH Pre-printed as shown

Type	Cat. no.
PMC SB 6/50 FW 1-10	<b>4703.7</b>
PMC SB 6/50 FW 11-20	<b>4704.7</b>
PMC SB 6/50 FW 21-30	<b>4705.7</b>
PMC SB 6/50 FW 31-40	<b>4706.7</b>
PMC SB 6/50 FW 41-50	<b>4707.7</b>
PMC SB 6/50 FW 51-60	<b>4708.7</b>
PMC SB 6/50 FW 61-70	<b>4709.7</b>
PMC SB 6/50 FW 71-80	<b>4710.7</b>
PMC SB 6/50 FW 81-90	<b>4711.7</b>
PMC SB 6/50 FW 91-100	<b>4712.7</b>
PMC SB 6/50 FW 101-110	<b>4712.7</b>
PMC SB 6/50 FW 111-120	<b>4713.7</b>
PMC SB 6/50 FW 121-130	<b>4714.7</b>
PMC SB 6/50 FW 131-140	<b>4715.7</b>
PMC SB 6/50 FW 141-150	<b>4716.7</b>
PMC SB 6/50 FW 151-160	<b>4717.7</b>
PMC SB 6/50 FW 161-170	<b>4718.7</b>
PMC SB 6/50 FW 171-180	<b>4719.7</b>
PMC SB 6/50 FW 181-190	<b>4720.7</b>
PMC SB 6/50 FW 191-200	<b>4721.7</b>
PMC SB 6/50 FW 201-210	<b>4722.7</b>
PMC SB 6/50 FW 211-220	<b>4723.7</b>
PMC SB 6/50 FW 221-230	<b>4724.7</b>
PMC SB 6/50 FW 231-240	<b>4725.7</b>
PMC SB 6/50 FW 241-250	<b>4726.7</b>
PMC SB 6/50 FW 251-260	<b>4727.7</b>
PMC SB 6/50 FW 261-270	<b>4728.7</b>
PMC SB 6/50 FW 271-280	<b>4729.7</b>
PMC SB 6/50 FW 281-290	<b>4730.7</b>
PMC SB 6/50 FW 291-300	<b>4731.7</b>
PMC SB 6/50 FW 301-310	<b>4732.7</b>
PMC SB 6/50 FW 311-320	<b>4733.7</b>
PMC SB 6/50 FW 321-330	<b>4734.7</b>
PMC SB 6/50 FW 331-340	<b>4735.7</b>
PMC SB 6/50 FW 341-350	<b>4736.7</b>
PMC SB 6/50 FW 351-360	<b>4737.7</b>
PMC SB 6/50 FW 361-370	<b>4738.7</b>
PMC SB 6/50 FW 371-380	<b>4739.7</b>
PMC SB 6/50 FW 381-390	<b>4740.7</b>
PMC SB 6/50 FW 391-400	<b>4741.7</b>
PMC SB 6/50 FW 401-410	<b>4742.7</b>
PMC SB 6/50 FW 411-420	<b>4743.7</b>
PMC SB 6/50 FW 421-430	<b>4744.7</b>
PMC SB 6/50 FW 431-440	<b>4745.7</b>
PMC SB 6/50 FW 441-450	<b>4746.7</b>
PMC SB 6/50 FW 451-460	<b>4747.7</b>
PMC SB 6/50 FW 461-470	<b>4748.7</b>
PMC SB 6/50 FW 471-480	<b>4749.7</b>
PMC SB 6/50 FW 481-490	<b>4750.7</b>
PMC SB 6/50 FW 491-500	<b>4751.7</b>
PMC SB 6/50 FW 501-510	<b>4752.7</b>
PMC SB 6/50 FW 511-520	<b>4753.7</b>
PMC SB 6/50 FW 521-530	<b>4754.7</b>
PMC SB 6/50 FW 531-540	<b>4755.7</b>
PMC SB 6/50 FW 541-550	<b>4756.7</b>
PMC SB 6/50 FW 551-560	<b>4757.7</b>

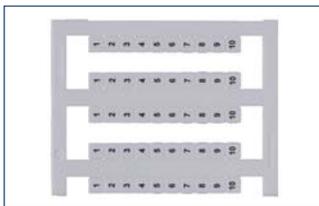
### PMC SB 6/...WH Pre-printed as shown

Type	Cat. no.
PMC SB 6/50 FW 561-570	<b>9258.7</b>
PMC SB 6/50 FW 571-580	<b>9259.7</b>
PMC SB 6/50 FW 581-590	<b>9260.7</b>
PMC SB 6/50 FW 591-600	<b>9261.7</b>
PMC SB 6/50 FW 1-50	<b>4713.7</b>
PMC SB 6/50 FW 51-100	<b>4714.7</b>
PMC SB 6/50 FW 101-150	<b>4715.7</b>
PMC SB 6/50 FW 151-200	<b>4716.7</b>
PMC SB 6/50 FW 201-250	<b>4717.7</b>
PMC SB 6/50 FW 251-300	<b>4718.7</b>
PMC SB 6/50 FW 301-350	<b>4719.7</b>
PMC SB 6/50 FW 351-400	<b>4720.7</b>
PMC SB 6/50 FW 401-450	<b>4721.7</b>
PMC SB 6/50 FW 451-500	<b>4722.7</b>
PMC SB 6/50 FW 501-550	<b>4723.7</b>
PMC SB 6/50 FW 551-600	<b>4724.7</b>
PMC SB 6/50 FW 601-650	<b>4725.7</b>
PMC SB 6/50 FW 651-700	<b>4726.7</b>
PMC SB 6/50 FW 701-750	<b>4727.7</b>
PMC SB 6/50 FW 751-800	<b>4728.7</b>
PMC SB 6/50 FW 801-850	<b>4729.7</b>
PMC SB 6/50 FW 851-900	<b>4730.7</b>
PMC SB 6/50 FW 901-950	<b>4731.7</b>
PMC SB 6/50 FW 2,4,6-20	<b>4809.7</b>
PMC SB 6/50 FW 1,3,5-19	<b>4810.7</b>
PMC SB 6/50 FW L1,L2,L3,N,PE	<b>4732.7</b>
PMC SB 6/50 FW U1,V1,W1,N,PE	<b>4733.7</b>
PMC SB 6/50 FW U1,V1,W1	<b>4734.7</b>
PMC SB 6/50 FW U2,V2,W2,N,PE	<b>4735.7</b>
PMC SB 6/50 FW U2,V2,W2	<b>4736.7</b>
PMC SB 6/50 FW X1-X10	<b>4737.7</b>
PMC SB 6/50 FS 1-10	<b>4738.7</b>
PMC SB 6/50 FS 11-20	<b>4739.7</b>
PMC SB 6/50 FS 21-30	<b>4740.7</b>
PMC SB 6/50 FS 31-40	<b>4741.7</b>
PMC SB 6/50 FS 41-50	<b>4742.7</b>
PMC SB 6/50 FS 51-60	<b>4743.7</b>
PMC SB 6/50 FS 61-70	<b>4744.7</b>
PMC SB 6/50 FS 71-80	<b>4745.7</b>
PMC SB 6/50 FS 81-90	<b>4746.7</b>
PMC SB 6/50 FS 91-100	<b>4747.7</b>
PMC SB 6/50 FS 101-110	<b>4748.7</b>
PMC SB 6/50 FS 111-120	<b>4749.7</b>
PMC SB 6/50 FS 121-130	<b>4750.7</b>
PMC SB 6/50 FS 131-140	<b>4751.7</b>
PMC SB 6/50 FS 141-150	<b>4752.7</b>
PMC SB 6/50 FS 151-160	<b>4753.7</b>
PMC SB 6/50 FS 161-170	<b>4754.7</b>
PMC SB 6/50 FS 171-180	<b>4755.7</b>
PMC SB 6/50 FS 181-190	<b>4756.7</b>
PMC SB 6/50 FS 191-200	<b>4757.7</b>
PMC SB 6/50 FS 201-210	<b>4758.7</b>
PMC SB 6/50 FS 211-220	<b>4759.7</b>

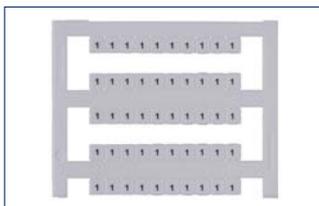
**PMC SB 6 FW**



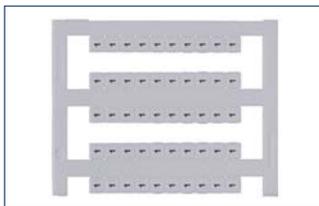
**PMC SB 6 FS**



**PMC SB 6 GW**



**PMC SB 6 GS**



**Pocket-Maxicard PMC SB 7,5**

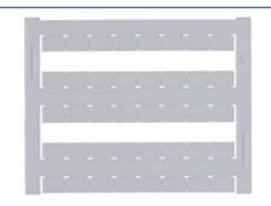
The **PMC SB 7,5** Pocket-Maxicard is suitable for labelling all transformer terminals from the **TK** and **TKS** series (starting at page 198). They can also be used with transformer terminals from other manufacturers (such as PHOENIX CONTACT, Wago or Adels). They are available blank or with custom printing.

The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

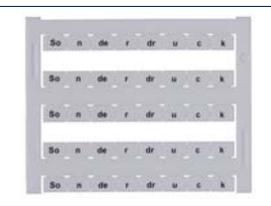
Material: Polyamide 6.6 UL 94-V2, halogen-free



**PMC SB 7,5 WH**



**PMC SB 7,5 So WH**



**PMC SB 6/...WH**  
Pre-printed as shown  
Type

Type	Cat. no.
PMC SB 6/50 FS 221-230	<b>9274.7</b>
PMC SB 6/50 FS 231-240	<b>9275.7</b>
PMC SB 6/50 FS 241-250	<b>9276.7</b>
PMC SB 6/50 FS 251-260	<b>9277.7</b>
PMC SB 6/50 FS 261-270	<b>9278.7</b>
PMC SB 6/50 FS 271-280	<b>9279.7</b>
PMC SB 6/50 FS 281-290	<b>9280.7</b>
PMC SB 6/50 FS 291-300	<b>9281.7</b>
PMC SB 6/50 FS 1-50	<b>4748.7</b>
PMC SB 6/50 FS 51-100	<b>4749.7</b>
PMC SB 6/50 FS 101-150	<b>4750.7</b>
PMC SB 6/50 FS 151-200	<b>4751.7</b>
PMC SB 6/50 FS 201-250	<b>4752.7</b>
PMC SB 6/50 FS 251-300	<b>4753.7</b>
PMC SB 6/50 FS 301-350	<b>4754.7</b>
PMC SB 6/50 FS 351-400	<b>4755.7</b>
PMC SB 6/50 FS 401-450	<b>4756.7</b>
PMC SB 6/50 FS 451-500	<b>4757.7</b>
PMC SB 6/50 FS 501-550	<b>4758.7</b>
PMC SB 6/50 FS 551-600	<b>4759.7</b>
PMC SB 6/50 FS 601-650	<b>4760.7</b>
PMC SB 6/50 FS 651-700	<b>4761.7</b>
PMC SB 6/50 FS 701-750	<b>4762.7</b>
PMC SB 6/50 FS 751-800	<b>4763.7</b>
PMC SB 6/50 FS 801-850	<b>4764.7</b>
PMC SB 6/50 FS 851-900	<b>4765.7</b>
PMC SB 6/50 FS 2,4,6-20	<b>4807.7</b>
PMC SB 6/50 FS 1,3,5-19	<b>4808.7</b>
PMC SB 6/50 FS L1,L2,L3,N,PE	<b>4766.7</b>
PMC SB 6/50 FS U1,V1,W1,N,PE	<b>4767.7</b>
PMC SB 6/50 FS U1,V1,W1	<b>4768.7</b>
PMC SB 6/50 FS U2,V2,W2,N,PE	<b>4769.7</b>
PMC SB 6/50 FS U2,V2,W2	<b>4770.7</b>
PMC SB 6/50 FS X1-X10	<b>4771.7</b>

**PMC SB 6/...WH**  
Pre-printed as shown  
Type

Type	Cat. no.
PMC SB 6/50 GS 1	<b>4788.7</b>
PMC SB 6/50 GS 2	<b>4789.7</b>
PMC SB 6/50 GS 3	<b>4790.7</b>
PMC SB 6/50 GS 4	<b>4791.7</b>
PMC SB 6/50 GS 5	<b>4792.7</b>
PMC SB 6/50 GS 6	<b>4793.7</b>
PMC SB 6/50 GS 7	<b>4794.7</b>
PMC SB 6/50 GS 8	<b>4795.7</b>
PMC SB 6/50 GS 9	<b>4796.7</b>
PMC SB 6/50 GS 0	<b>4797.7</b>
PMC SB 6/50 GS X	<b>4798.7</b>
PMC SB 6/50 GS PE	<b>4799.7</b>
PMC SB 6/50 GS L1	<b>4800.7</b>
PMC SB 6/50 GS L2	<b>4801.7</b>
PMC SB 6/50 GS L3	<b>4802.7</b>
PMC SB 6/50 GS N	<b>4803.7</b>
PMC SB 6/50 GS -	<b>4804.7</b>

PMC SB 6/50 GW 1	<b>4772.7</b>
PMC SB 6/50 GW 2	<b>4773.7</b>
PMC SB 6/50 GW 3	<b>4774.7</b>
PMC SB 6/50 GW 4	<b>4775.7</b>
PMC SB 6/50 GW 5	<b>4776.7</b>
PMC SB 6/50 GW 6	<b>4777.7</b>
PMC SB 6/50 GW 7	<b>4778.7</b>
PMC SB 6/50 GW 8	<b>4779.7</b>
PMC SB 6/50 GW 9	<b>4780.7</b>
PMC SB 6/50 GW 0	<b>4781.7</b>
PMC SB 6/50 GW X	<b>4782.7</b>
PMC SB 6/50 GW PE	<b>4783.7</b>
PMC SB 6/50 GW L1	<b>4784.7</b>
PMC SB 6/50 GW L2	<b>4785.7</b>
PMC SB 6/50 GW L3	<b>4786.7</b>
PMC SB 6/50 GW N	<b>4787.7</b>
PMC SB 6/50 GW -	<b>4805.7</b>
PMC SB 6/50 GW +	<b>4806.7</b>

**Type**

Type/colour	
<b>Cat. no.</b>	
Type/colour	Special print
<b>Cat. no.</b>	

**Colours available**

**Characteristics**

**Dimensions**

Length x width, mm	
Number of markers per row	
Number of markers per card	

**Material**

Material	
Temperature range	
Flamm. class acc. to UL 94	

**Inscription**

Printing process	
Marker pen	
Number of characters   lines when using font size 1.6 and plotter pen 0.25: horizontal	
Number of characters   lines when using font size 1.6 and plotter pen 0.25: vertical	

**Application**

Terminal width, mm	
--------------------	--

**Qty.**

PMC SB 7,5/40 WH	
<b>9326.7</b>	400
PMC SB 7,5/40 So WH	
<b>3327.7</b>	400

**7**

**Characteristics**

Length x width, mm	5 x 7.5
Number of markers per row	8
Number of markers per card	40

**Material**

Material	PA6.6, halogen-free
Temperature range	-40°C to +105°C
Flamm. class acc. to UL 94	V2

**Inscription**

Printing process	Thermal transfer
Marker pen	BS-1
Number of characters   lines when using font size 1.6 and plotter pen 0.25: horizontal	4 1
Number of characters   lines when using font size 1.6 and plotter pen 0.25: vertical	2 3

**Application**

Terminal width, mm	≥ 7.5
--------------------	-------



# Terminal markers – Pocket-Maxicard PMC BSTR

## Pocket-Maxicard BSTR 5

The **BSTR 5** Pocket-Maxicard is suitable for labelling all **CONTA-CLIP** terminal blocks that are wider than 5 mm. These are particularly suitable for longer sequences of characters.

The **BSTR 5/... MI** variants are fitted with a centrally positioned foot that is used when the standard **BSTR** markers cover the cross-connection channel or the wire entry.

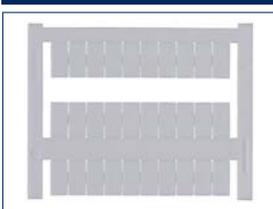
They are available in a variety of standard, prefabricated markers.

The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

They can be delivered in the following colours: white

Material Polyamide 6.6-V2, halogen-free

## PMC BSTR 5 WH



## PMC BSTR 5 So WH



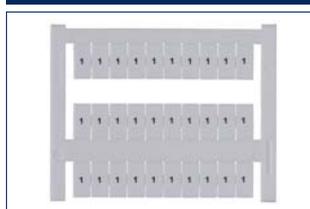
## PMC BSTR 5 FW



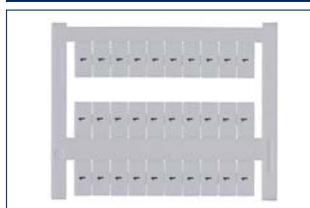
## PMC BSTR 5 FS



## PMC BSTR 5 GW



## PMC BSTR 5 GS



Type	Qty.
Type/colour <b>Cat. no.</b>	PMC BSTR 5/36 WH <b>9000.7</b> 360
Type/colour <b>Cat. no.</b>	Special print PMC BSTR 5/36 So WH <b>9001.7</b> 360
Type/colour <b>Cat. no.</b>	PMC BSTR 5/36 MI WH <b>9324.7</b> 360
Type/colour <b>Cat. no.</b>	Special print PMC BSTR 5/36 MI So WH <b>9325.7</b> 360

Colours available

**Characteristics**

**Dimensions**

Length x width, mm	10 x 5
Number of markers per row	12
Number of markers per card	36

**Material**

Material	PA6.6, halogen-free
Temperature range	-40°C to +105°C
Flamm. class acc. to UL 94	V2

**Inscription**

Printing process	Thermal transfer
Marker pen	BS-1
Number of characters   lines when using font size 1,6 and plotter pen 0.25: horizontal	2 3
Number of characters   lines when using font size 1,6 and plotter pen 0.25: vertical	6 2

**Application**

Terminal width, mm	≥ 5,1
--------------------	-------

Type	Qty.
PMC BSTR 5/36 WH	9000.7 360
PMC BSTR 5/36 So WH	9001.7 360
PMC BSTR 5/36 MI WH	9324.7 360
PMC BSTR 5/36 MI So WH	9325.7 360

PMC BSTR 5/...WH Pre-printed as shown	Cat. no.
PMC BSTR 5/36 FW 1-12	9002.7
PMC BSTR 5/36 FW 13-24	9003.7
PMC BSTR 5/36 FW 25-36	9004.7
PMC BSTR 5/36 FW 37-48	9005.7
PMC BSTR 5/36 FW 49-60	9006.7
PMC BSTR 5/36 FW 61-72	9007.7
PMC BSTR 5/36 FW 73-84	9008.7
PMC BSTR 5/36 FW 85-96	9009.7
PMC BSTR 5/36 FW 97-108	9010.7
PMC BSTR 5/36 FW 109-120	9011.7
PMC BSTR 5/36 FW 1-36	9012.7
PMC BSTR 5/36 FW 37-72	9013.7
PMC BSTR 5/36 FW 73-108	9014.7
PMC BSTR 5/36 FW 109-144	9015.7
PMC BSTR 5/36 FW 145-180	9016.7
PMC BSTR 5/36 FW 181-216	9017.7
PMC BSTR 5/36 FW 217-252	9018.7
PMC BSTR 5/36 FW 253-288	9019.7
PMC BSTR 5/36 FW 289-324	9020.7
PMC BSTR 5/36 FW 325-360	9021.7
PMC BSTR 5/36 FW 361-396	9022.7
PMC BSTR 5/36 FW 397-432	9023.7
PMC BSTR 5/36 FW 433-468	9024.7
PMC BSTR 5/36 FW 469-504	9025.7
PMC BSTR 5/36 FW 505-540	9026.7
PMC BSTR 5/36 FW 541-576	9027.7
PMC BSTR 5/36 FW 577-612	9028.7
PMC BSTR 5/36 FW 613-648	9029.7
PMC BSTR 5/36 FW 649-684	9030.7
PMC BSTR 5/36 FW L1,L2,L3,N,PE	9031.7
PMC BSTR 5/36 FW U1,V1,W1,N,PE	9032.7
PMC BSTR 5/36 FW U1,V1,W1	9033.7
PMC BSTR 5/36 FW U2,V2,W2,N,PE	9034.7
PMC BSTR 5/36 FW U2,V2,W2	9035.7
PMC BSTR 5/36 FW X1-X12	9036.7
PMC BSTR 5/36 FS 1-12	9037.7
PMC BSTR 5/36 FS 13-24	9038.7
PMC BSTR 5/36 FS 25-36	9039.7
PMC BSTR 5/36 FS 37-48	9040.7
PMC BSTR 5/36 FS 49-60	9041.7
PMC BSTR 5/36 FS 61-72	9042.7
PMC BSTR 5/36 FS 73-84	9043.7
PMC BSTR 5/36 FS 85-96	9044.7
PMC BSTR 5/36 FS 97-108	9045.7
PMC BSTR 5/36 FS 109-120	9046.7
PMC BSTR 5/36 FS 1-36	9047.7
PMC BSTR 5/36 FS 37-72	9048.7
PMC BSTR 5/36 FS 73-108	9049.7
PMC BSTR 5/36 FS 109-144	9050.7
PMC BSTR 5/36 FS 145-180	9051.7
PMC BSTR 5/36 FS 181-216	9052.7
PMC BSTR 5/36 FS 217-252	9053.7
PMC BSTR 5/36 FS 253-288	9054.7
PMC BSTR 5/36 FS 289-324	9055.7

PMC BSTR 5/...WH Pre-printed as shown	Cat. no.
PMC BSTR 5/36 FS 325-360	9056.7
PMC BSTR 5/36 FS 361-396	9057.7
PMC BSTR 5/36 FS 397-432	9058.7
PMC BSTR 5/36 FS 433-468	9059.7
PMC BSTR 5/36 FS 469-504	9060.7
PMC BSTR 5/36 FS 505-540	9061.7
PMC BSTR 5/36 FS 541-576	9062.7
PMC BSTR 5/36 FS 577-612	9063.7
PMC BSTR 5/36 FS 613-648	9064.7
PMC BSTR 5/36 FS L1,L2,L3,N,PE	9065.7
PMC BSTR 5/36 FS U1,V1,W1,N,PE	9066.7
PMC BSTR 5/36 FS U1,V1,W1	9067.7
PMC BSTR 5/36 FS U2,V2,W2,N,PE	9068.7
PMC BSTR 5/36 FS U2,V2,W2	9069.7
PMC BSTR 5/36 FS X1-X12	9070.7
PMC BSTR 5/36 GW 1	9071.7
PMC BSTR 5/36 GW 2	9072.7
PMC BSTR 5/36 GW 3	9073.7
PMC BSTR 5/36 GW 4	9074.7
PMC BSTR 5/36 GW 5	9075.7
PMC BSTR 5/36 GW 6	9076.7
PMC BSTR 5/36 GW 7	9077.7
PMC BSTR 5/36 GW 8	9078.7
PMC BSTR 5/36 GW 9	9079.7
PMC BSTR 5/36 GW 0	9080.7
PMC BSTR 5/36 GW X	9081.7
PMC BSTR 5/36 GW PE	9082.7
PMC BSTR 5/36 GW L1	9083.7
PMC BSTR 5/36 GW L2	9084.7
PMC BSTR 5/36 GW L3	9085.7
PMC BSTR 5/36 GW N	9086.7
PMC BSTR 5/36 GW +	9087.7
PMC BSTR 5/36 GW -	9088.7
PMC BSTR 5/36 GS 1	9089.7
PMC BSTR 5/36 GS 2	9090.7
PMC BSTR 5/36 GS 3	9091.7
PMC BSTR 5/36 GS 4	9092.7
PMC BSTR 5/36 GS 5	9093.7
PMC BSTR 5/36 GS 6	9094.7
PMC BSTR 5/36 GS 7	9095.7
PMC BSTR 5/36 GS 8	9096.7
PMC BSTR 5/36 GS 9	9097.7
PMC BSTR 5/36 GS 0	9098.7
PMC BSTR 5/36 GS X	9099.7
PMC BSTR 5/36 GS PE	9100.7
PMC BSTR 5/36 GS L1	9101.7
PMC BSTR 5/36 GS L2	9102.7
PMC BSTR 5/36 GS L3	9103.7
PMC BSTR 5/36 GS N	9104.7
PMC BSTR 5/36 GS -	9105.7

## Terminal markers – Pocket-Maxicard PMC BSTR

### Pocket-Maxicard PMC BSTR 6

The **BSTR 6** Pocket-Maxicard is suitable for labelling all **CONTA-CLIP** terminal blocks that are wider than 6 mm.

These are particularly suitable for longer sequences of characters.

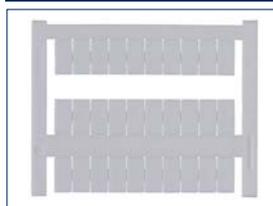
They are available in a variety of standard, prefabricated markers.

The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

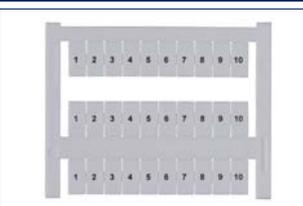
Material: Polyamide 6.6 UL 94-V2, halogen-free



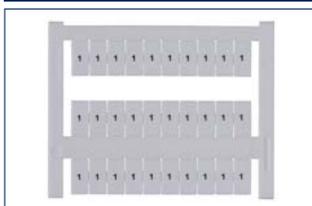
### PMC BSTR 6 WH



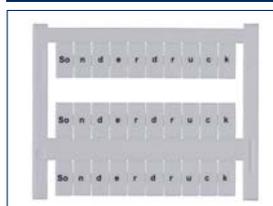
### PMC BSTR 6 FW



### PMC BSTR 6 GW



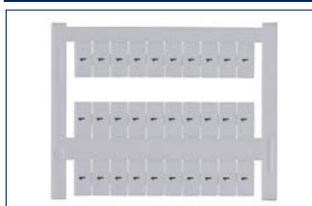
### PMC BSTR 6 So WH



### PMC BSTR 6 FS



### PMC BSTR 6 GS



Type	Qty.
Type/colour	
<b>Cat. no.</b>	
Type/colour	Special print
<b>Cat. no.</b>	

PMC BSTR 6/30 WH	300
<b>9106.7</b>	
PMC BSTR 6/30 So WH	300
<b>9107.7</b>	

### PMC BSTR 6 /...WH Pre-printed as shown

Type	Cat. no.
PMC BSTR 6/30 FW 1-10	<b>9108.7</b>
PMC BSTR 6/30 FW 11-20	<b>9109.7</b>
PMC BSTR 6/30 FW 21-30	<b>9110.7</b>
PMC BSTR 6/30 FW 31-40	<b>9111.7</b>
PMC BSTR 6/30 FW 41-50	<b>9112.7</b>
PMC BSTR 6/30 FW 51-60	<b>9113.7</b>
PMC BSTR 6/30 FW 61-70	<b>9114.7</b>
PMC BSTR 6/30 FW 71-80	<b>9115.7</b>
PMC BSTR 6/30 FW 81-90	<b>9116.7</b>
PMC BSTR 6/30 FW 91-100	<b>9117.7</b>
PMC BSTR 6/30 FW 1-30	<b>9118.7</b>
PMC BSTR 6/30 FW 31-60	<b>9119.7</b>
PMC BSTR 6/30 FW 61-90	<b>9120.7</b>
PMC BSTR 6/30 FW 91-120	<b>9121.7</b>
PMC BSTR 6/30 FW 121-150	<b>9122.7</b>
PMC BSTR 6/30 FW 151-180	<b>9123.7</b>
PMC BSTR 6/30 FW 181-210	<b>9124.7</b>
PMC BSTR 6/30 FW 211-240	<b>9125.7</b>
PMC BSTR 6/30 FW 241-270	<b>9126.7</b>
PMC BSTR 6/30 FW 271-300	<b>9127.7</b>
PMC BSTR 6/30 FW 301-330	<b>9128.7</b>
PMC BSTR 6/30 FW 331-360	<b>9129.7</b>
PMC BSTR 6/30 FW 361-390	<b>9130.7</b>
PMC BSTR 6/30 FW 391-420	<b>9131.7</b>
PMC BSTR 6/30 FW 421-450	<b>9132.7</b>
PMC BSTR 6/30 FW 451-480	<b>9133.7</b>
PMC BSTR 6/30 FW 481-510	<b>9134.7</b>
PMC BSTR 6/30 FW 511-540	<b>9135.7</b>
PMC BSTR 6/30 FW 541-570	<b>9136.7</b>
PMC BSTR 6/30 FW L1,L2,L3,N,PE	<b>9137.7</b>
PMC BSTR 6/30 FW U1,V1,W1,N,PE	<b>9138.7</b>
PMC BSTR 6/30 FW U1,V1,W1	<b>9139.7</b>
PMC BSTR 6/30 FW U2,V2,W2,N,PE	<b>9140.7</b>
PMC BSTR 6/30 FW U2,V2,W2	<b>9141.7</b>
PMC BSTR 6/30 FW X1-X10	<b>9142.7</b>

### PMC BSTR 6 /...WH Pre-printed as shown

Type	Cat. no.
PMC BSTR 6/30 FS 271-300	<b>9162.7</b>
PMC BSTR 6/30 FS 301-330	<b>9163.7</b>
PMC BSTR 6/30 FS 331-360	<b>9164.7</b>
PMC BSTR 6/30 FS 361-390	<b>9165.7</b>
PMC BSTR 6/30 FS 391-420	<b>9166.7</b>
PMC BSTR 6/30 FS 421-450	<b>9167.7</b>
PMC BSTR 6/30 FS 451-480	<b>9168.7</b>
PMC BSTR 6/30 FS 481-510	<b>9169.7</b>
PMC BSTR 6/30 FS 511-540	<b>9170.7</b>
PMC BSTR 6/30 FS L1,L2,L3,N,PE	<b>9171.7</b>
PMC BSTR 6/30 FS U1,V1,W1,N,PE	<b>9172.7</b>
PMC BSTR 6/30 FS U1,V1,W1	<b>9173.7</b>
PMC BSTR 6/30 FS U2,V2,W2,N,PE	<b>9174.7</b>
PMC BSTR 6/30 FS U2,V2,W2	<b>9175.7</b>
PMC BSTR 6/30 FS X1-X10	<b>9176.7</b>
PMC BSTR 6/30 GW 1	<b>9177.7</b>
PMC BSTR 6/30 GW 2	<b>9178.7</b>
PMC BSTR 6/30 GW 3	<b>9179.7</b>
PMC BSTR 6/30 GW 4	<b>9180.7</b>
PMC BSTR 6/30 GW 5	<b>9181.7</b>
PMC BSTR 6/30 GW 6	<b>9182.7</b>
PMC BSTR 6/30 GW 7	<b>9183.7</b>
PMC BSTR 6/30 GW 8	<b>9184.7</b>
PMC BSTR 6/30 GW 9	<b>9185.7</b>
PMC BSTR 6/30 GW 0	<b>9186.7</b>
PMC BSTR 6/30 GW X	<b>9187.7</b>
PMC BSTR 6/30 GW PE	<b>9188.7</b>
PMC BSTR 6/30 GW L1	<b>9189.7</b>
PMC BSTR 6/30 GW L2	<b>9190.7</b>
PMC BSTR 6/30 GW L3	<b>9191.7</b>
PMC BSTR 6/30 GW N	<b>9192.7</b>
PMC BSTR 6/30 GW +	<b>9193.7</b>
PMC BSTR 6/30 GW -	<b>9194.7</b>

Colours available

⑦

### Characteristics

### Dimensions

Length x width, mm	12 x 6
Number of markers per row	10
Number of markers per card	30

### Material

Material	PA6.6, halogen-free
Temperature range	-40°C to +105°C
Flamm. class acc. to UL 94	V2

### Inscription

Printing process	Thermal transfer
Marker pen	BS-1
Number of characters   lines when using font size 1,6 and plotter pen 0.25: horizontal	3 3
Number of characters   lines when using font size 1,6 and plotter pen 0.25: vertical	8 3

### Application

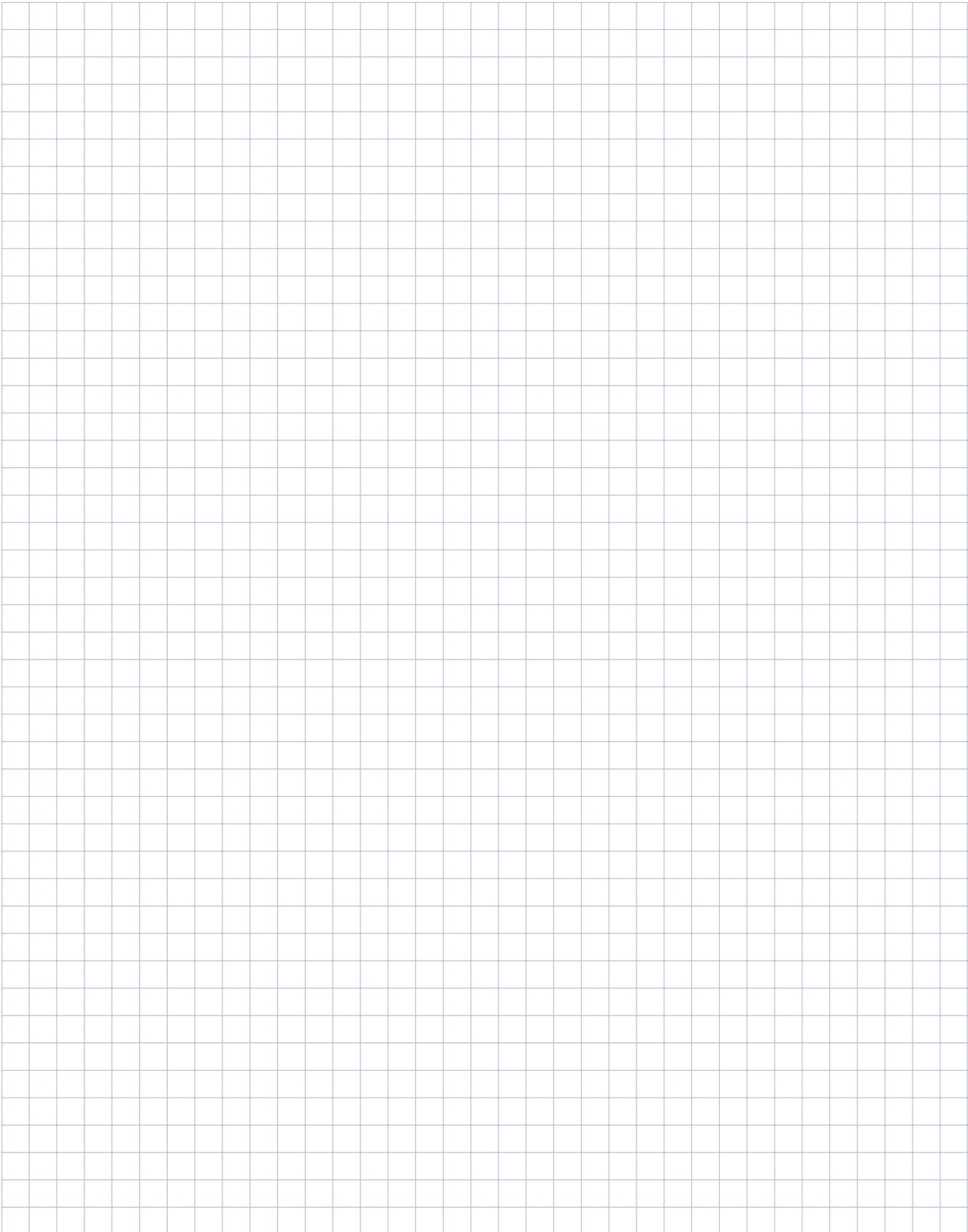
Terminal width, mm	≥ 6
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PMC BSTR 6/30 FS 1-10	<b>9143.7</b>
PMC BSTR 6/30 FS 11-20	<b>9144.7</b>
PMC BSTR 6/30 FS 21-30	<b>9145.7</b>
PMC BSTR 6/30 FS 31-40	<b>9146.7</b>
PMC BSTR 6/30 FS 41-50	<b>9147.7</b>
PMC BSTR 6/30 FS 51-60	<b>9148.7</b>
PMC BSTR 6/30 FS 61-70	<b>9149.7</b>
PMC BSTR 6/30 FS 71-80	<b>9150.7</b>
PMC BSTR 6/30 FS 81-90	<b>9151.7</b>
PMC BSTR 6/30 FS 91-100	<b>9152.7</b>
PMC BSTR 6/30 FS 1-30	<b>9153.7</b>
PMC BSTR 6/30 FS 31-60	<b>9154.7</b>
PMC BSTR 6/30 FS 61-90	<b>9155.7</b>
PMC BSTR 6/30 FS 91-120	<b>9156.7</b>
PMC BSTR 6/30 FS 121-150	<b>9157.7</b>
PMC BSTR 6/30 FS 151-180	<b>9158.7</b>
PMC BSTR 6/30 FS 181-210	<b>9159.7</b>
PMC BSTR 6/30 FSS 211-240	<b>9160.7</b>
PMC BSTR 6/30 FS 241-270	<b>9161.7</b>

PMC BSTR 6/30 GS 1	<b>9195.7</b>
PMC BSTR 6/30 GS 2	<b>9196.7</b>
PMC BSTR 6/30 GS 3	<b>9197.7</b>
PMC BSTR 6/30 GS 4	<b>9198.7</b>
PMC BSTR 6/30 GS 5	<b>9199.7</b>
PMC BSTR 6/30 GS 6	<b>9200.7</b>
PMC BSTR 6/30 GS 7	<b>9201.7</b>
PMC BSTR 6/30 GS 8	<b>9202.7</b>
PMC BSTR 6/30 GS 9	<b>9203.7</b>
PMC BSTR 6/30 GS 0	<b>9204.7</b>
PMC BSTR 6/30 GS X	<b>9205.7</b>
PMC BSTR 6/30 GS PE	<b>9206.7</b>
PMC BSTR 6/30 GS L1	<b>9207.7</b>
PMC BSTR 6/30 GS L2	<b>9208.7</b>
PMC BSTR 6/30 GS L3	<b>9209.7</b>
PMC BSTR 6/30 GS N	<b>9210.7</b>
PMC BSTR 6/30 GS -	<b>9211.7</b>







# Terminal markers – Quick marking system SB

## Quick marking system SB 5

The **SB 5** quick marking system is suitable for labelling all **CONTA-CLIP** terminals that are wider than 5 mm.

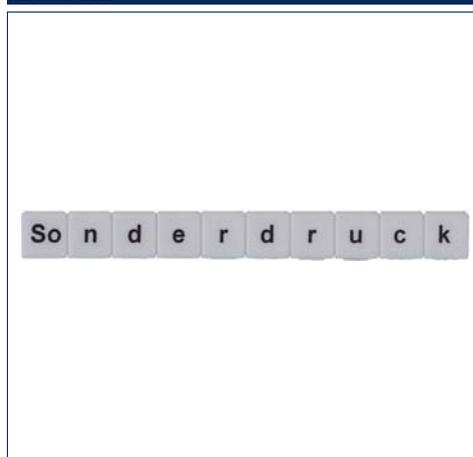
They are available in a variety of standard, pre-fabricated markers or with custom labelling.

The blank **SB 5** markers are also available as **MC SB 5/200 WH** (3300.7 on p. 356). They can easily be printed on using the **EMS** plotter system.

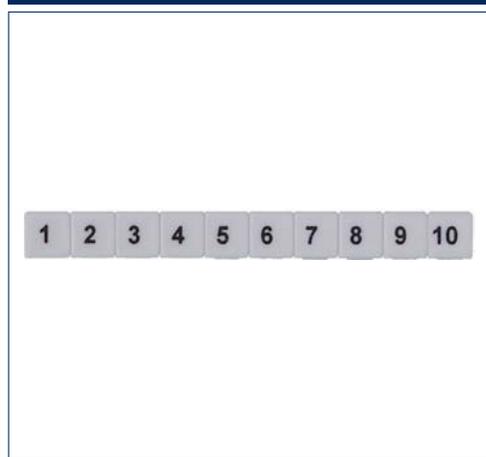
Material: Polyamide 6.6 UL 94-V2, halogen-free



## SB 5 So WH

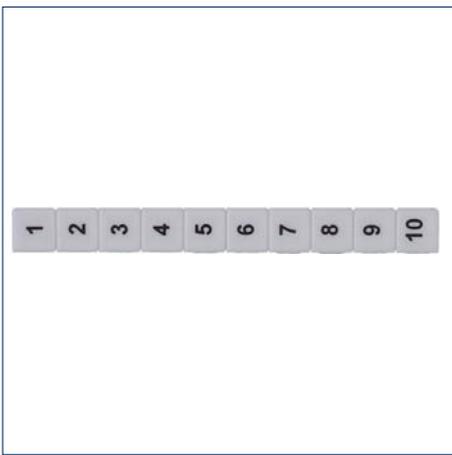


## SB 5 FW

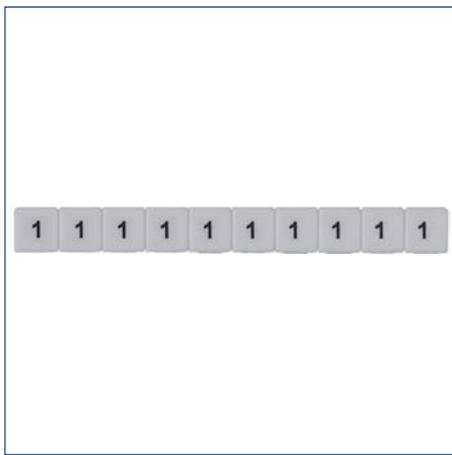


Type	SB 5/10 WH	SB 5/10 So WH	SB 5/...WH Pre-printed as shown	Cat. no.	SB 5/...WH Pre-printed as shown	Cat. no.
Type/colour	SB 5/10 WH	SB 5/10 So WH	SB 5/10 FW 1-10	2431.0001	SB 5/10 FS U1; V1; W1	2472.0021
Cat. no.	2430.0	2431.7	SB 5/10 FW 11-20	2431.0002	SB 5/10 FS U2; V2; W2	2472.0022
Type/colour	Special print		SB 5/10 FW 21-30	2431.0003	SB 5/10 FS U3; V3; W3	2472.0023
Cat. no.			SB 5/10 FW 31-40	2431.0004	SB 5/10 FS U4; V4; W4	2472.0024
			SB 5/10 FW 41-50	2431.0005	SB 5/10 FS U5; V5; W5	2472.0025
			SB 5/10 FW 51-60	2431.0006	SB 5/10 FS U6; V6; W6	2472.0026
			SB 5/10 FW 61-70	2431.0007	SB 5/10 FS U7; V7; W7	2472.0027
			SB 5/10 FW 71-80	2431.0008	SB 5/10 FS U8; V8; W8	2472.0028
			SB 5/10 FW 81-90	2431.0009	SB 5/10 FS U9; V9; W9	2472.0029
			SB 5/10 FW 91-100	2431.0010	SB 5/10 FS U10; V10; W10	2472.0030
			SB 5/10 FW X1; Y1; Z1	2404.0001	SB 5/10 FS U; V; W; N; PE	2473.0001
			SB 5/10 FW X2; Y2; Z2	2404.0002	SB 5/10 FS R; S; T; N; Earth with circuit	2473.0002
			SB 5/10 FW X3; Y3; Z3	2404.0003	SB 5/10 FS L1; L2; L3; N; PE	2473.0003
			SB 5/10 FW X4; Y4; Z4	2404.0004	SB 5/10 FW L1; L2; L3; N; Earth with circuit	2473.0004
			SB 5/10 FW X5; Y5; Z5	2404.0005		
			SB 5/10 FW X6; Y6; Z6	2404.0006		
			SB 5/10 FW X7; Y7; Z7	2404.0007	SB 5/10 GW 1	2432.0001
			SB 5/10 FW X8; Y8; Z8	2404.0008	SB 5/10 GW 2	2432.0002
			SB 5/10 FW X9; Y9; Z9	2404.0009	SB 5/10 GW 3	2432.0003
			SB 5/10 FW X10; Y10; Z10	2404.0010	SB 5/10 GW 4	2432.0004
			SB 5/10 FW R1; S1; T1	2404.0011	SB 5/10 GW 5	2432.0005
			SB 5/10 FW R2; S2; T2	2404.0012	SB 5/10 GW 6	2432.0006
			SB 5/10 FW R3; S3; T3	2404.0013	SB 5/10 GW 7	2432.0007
			SB 5/10 FW R4; S4; T4	2404.0014	SB 5/10 GW 8	2432.0008
			SB 5/10 FW R5; S5; T5	2404.0015	SB 5/10 GW 9	2432.0009
			SB 5/10 FW R6; S6; T6	2404.0016	SB 5/10 GW 10	2432.0010
			SB 5/10 FW R7; S7; T7	2404.0017	SB 5/10 GW 11	2432.0011
			SB 5/10 FW R8; S8; T8	2404.0018	SB 5/10 GW 12	2432.0012
			SB 5/10 FW R9; S9; T9	2404.0019	SB 5/10 GW 13	2432.0013
			SB 5/10 FW R10; S10; T10	2404.0020	SB 5/10 GW 14	2432.0014
			SB 5/10 FW U1; V1; W1	2404.0021	SB 5/10 GW 15	2432.0015
			SB 5/10 FW U2; V2; W2	2404.0022	SB 5/10 GW 16	2432.0016
			SB 5/10 FW U3; V3; W3	2404.0023	SB 5/10 GW 17	2432.0017
			SB 5/10 FW U4; V4; W4	2404.0024	SB 5/10 GW 18	2432.0018
			SB 5/10 FW U5; V5; W5	2404.0025	SB 5/10 GW 19	2432.0019
			SB 5/10 FW U6; V6; W6	2404.0026	SB 5/10 GW 20	2432.0020
			SB 5/10 FW U7; V7; W7	2404.0027	SB 5/10 GW 21	2432.0021
			SB 5/10 FW U8; V8; W8	2404.0028	SB 5/10 GW 22	2432.0022
			SB 5/10 FW U9; V9; W9	2404.0029	SB 5/10 GW 23	2432.0023
			SB 5/10 FW U10; V10; W10	2404.0030	SB 5/10 GW 24	2432.0024
			SB 5/10 FW U; V; W; N; PE	2471.0001	SB 5/10 GW 25	2432.0025
			SB 5/10 FW R; S; T; N; Earth with circuit	2471.0002	SB 5/10 GW 26	2432.0026
			SB 5/10 FW L1; L2; L3; N; PE	2471.0003	SB 5/10 GW 27	2432.0027
			SB 5/10 FW L1; L2; L3; N; Earth with circuit	2471.0004	SB 5/10 GW 28	2432.0028
					SB 5/10 GW 29	2432.0029
					SB 5/10 GW 30	2432.0030
			SB 5/10 FS 1-10	2433.0001	SB 5/10 GW 31	2432.0031
			SB 5/10 FS 11-20	2433.0002	SB 5/10 GW 32	2432.0032
			SB 5/10 FS 21-30	2433.0003	SB 5/10 GW 33	2432.0033
			SB 5/10 FS 31-40	2433.0004	SB 5/10 GW 34	2432.0034
			SB 5/10 FS 41-50	2433.0005	SB 5/10 GW 35	2432.0035
			SB 5/10 FS 51-60	2433.0006	SB 5/10 GW 36	2432.0036
			SB 5/10 FS 61-70	2433.0007	SB 5/10 GW 37	2432.0037
			SB 5/10 FS 71-80	2433.0008	SB 5/10 GW 38	2432.0038
			SB 5/10 FS 81-90	2433.0009	SB 5/10 GW 39	2432.0039
			SB 5/10 FS 91-100	2433.0010	SB 5/10 GW 40	2432.0040
					SB 5/10 GW 41	2432.0041
					SB 5/10 GW 42	2432.0042
			SB 5/10 FS X1; Y1; Z1	2472.0001	SB 4/50 GW 43	2432.0043
			SB 5/10 FS X2; Y2; Z2	2472.0002	SB 5/10 GW 44	2432.0044
			SB 5/10 FS X3; Y3; Z3	2472.0003	SB 5/10 GW 45	2432.0045
			SB 5/10 FS X4; Y4; Z4	2472.0004	SB 5/10 GW 46	2432.0046
			SB 5/10 FS X5; Y5; Z5	2472.0005	SB 5/10 GW 47	2432.0047
			SB 5/10 FS X6; Y6; Z6	2472.0006	SB 5/10 GW 48	2432.0048
			SB 5/10 FS X7; Y7; Z7	2472.0007	SB 5/10 GW 49	2432.0049
			SB 5/10 FS X8; Y8; Z8	2472.0008	SB 5/10 GW 50	2432.0050
			SB 5/10 FS X9; Y9; Z9	2472.0009	SB 5/10 GW 51	2432.0051
			SB 5/10 FS X10; Y10; Z10	2472.0010	SB 5/10 GW 52	2432.0052
			SB 5/10 FS R1; S1; T1	2472.0011	SB 5/10 GW 53	2432.0053
			SB 5/10 FS R2; S2; T2	2472.0012	SB 5/10 GW 54	2432.0054
			SB 5/10 FS R3; S3; T3	2472.0013	SB 5/10 GW 55	2432.0055
			SB 5/10 FS R4; S4; T4	2472.0014	SB 5/10 GW 56	2432.0056
			SB 5/10 FS R5; S5; T5	2472.0015	SB 5/10 GW 57	2432.0057
			SB 5/10 FS R6; S6; T6	2472.0016	SB 5/10 GW 58	2432.0058
			SB 5/10 FS R7; S7; T7	2472.0017	SB 5/10 GW 59	2432.0059
			SB 5/10 FS R8; S8; T8	2472.0018	SB 5/10 GW 60	2432.0060
			SB 5/10 FS R9; S9; T9	2472.0019	SB 5/10 GW 61	2432.0061
			SB 5/10 FS R10; S10; T10	2472.0020	SB 5/10 GW 62	2432.0062

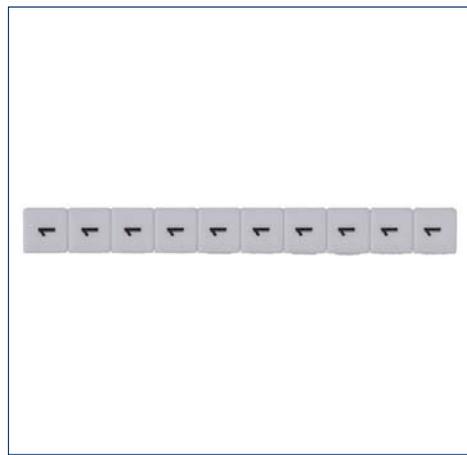
**SB 5 FS**



**SB 5 GW**



**SB 5 GS**



SB 5/...WH Pre-printed as shown Type	Cat. no.
SB 5/10 GW 63	2432.0063
SB 5/10 GW 64	2432.0064
SB 5/10 GW 65	2432.0065
SB 5/10 GW 66	2432.0066
SB 5/10 GW 67	2432.0067
SB 5/10 GW 68	2432.0068
SB 5/10 GW 69	2432.0069
SB 5/10 GW 70	2432.0070
SB 5/10 GW 71	2432.0071
SB 5/10 GW 72	2432.0072
SB 5/10 GW 73	2432.0073
SB 5/10 GW 74	2432.0074
SB 5/10 GW 75	2432.0075
SB 5/10 GW 76	2432.0076
SB 5/10 GW 77	2432.0077
SB 5/10 GW 78	2432.0078
SB 5/10 GW 79	2432.0079
SB 5/10 GW 80	2432.0080
SB 5/10 GW 81	2432.0081
SB 5/10 GW 82	2432.0082
SB 5/10 GW 83	2432.0083
SB 5/10 GW 84	2432.0084
SB 5/10 GW 85	2432.0085
SB 5/10 GW 86	2432.0086
SB 5/10 GW 87	2432.0087
SB 5/10 GW 88	2432.0088
SB 5/10 GW 89	2432.0089
SB 5/10 GW 90	2432.0090
SB 5/10 GW 91	2432.0091
SB 5/10 GW 92	2432.0092
SB 5/10 GW 93	2432.0093
SB 5/10 GW 94	2432.0094
SB 5/10 GW 95	2432.0095
SB 5/10 GW 96	2432.0096
SB 5/10 GW 97	2432.0097
SB 5/10 GW 98	2432.0098
SB 5/10 GW 99	2432.0099
SB 5/10 GW 100	2432.0100
SB 5/10 GW A	2474.0001
SB 5/10 GW B	2474.0002
SB 5/10 GW C	2474.0003
SB 5/10 GW D	2474.0004
SB 5/10 GW E	2474.0005
SB 5/10 GW F	2474.0006
SB 5/10 GW G	2474.0007
SB 5/10 GW H	2474.0008
SB 5/10 GW I	2474.0009
SB 5/10 GW J	2474.0010
SB 5/10 GW K	2474.0011
SB 5/10 GW L	2474.0012
SB 5/10 GW M	2474.0013
SB 5/10 GW N	2474.0014
SB 5/10 GW O	2474.0015
SB 5/10 GW P	2474.0016
SB 5/10 GW Q	2474.0017
SB 5/10 GW R	2474.0018
SB 5/10 GW S	2474.0019
SB 5/10 GW T	2474.0020
SB 5/10 GW U	2474.0021
SB 5/10 GW V	2474.0022
SB 5/10 GW W	2474.0023
SB 5/10 GW X	2474.0024
SB 5/10 GW Y	2474.0025
SB 5/10 GW Z	2474.0026
SB 5/10 GW PE	2474.0027
SB 5/10 GW PEN	2474.0028
SB 5/10 GW MP	2474.0029
SB 5/10 GW SL	2474.0030
SB 5/10 GW T1	2474.0031
SB 5/10 GW T2	2474.0032
SB 5/10 GW T3	2474.0033
SB 5/10 GW +	2474.0034
SB 5/10 GW -	2474.0035
SB 5/10 GW -	2474.0036
SB 5/10 GW Earth	2474.0037
SB 5/10 GW Earth with circuit	2474.0038

SB 5/...WH Pre-printed as shown Type	Cat. no.
SB 5/10 GS 1	2434.0001
SB 5/10 GS 2	2434.0002
SB 5/10 GS 3	2434.0003
SB 5/10 GS 4	2434.0004
SB 5/10 GS 5	2434.0005
SB 5/10 GS 6	2434.0006
SB 5/10 GS 7	2434.0007
SB 5/10 GS 8	2434.0008
SB 5/10 GS 9	2434.0009
SB 5/10 GS 10	2434.0010
SB 5/10 GS 11	2434.0011
SB 5/10 GS 12	2434.0012
SB 5/10 GS 13	2434.0013
SB 5/10 GS 14	2434.0014
SB 5/10 GS 15	2434.0015
SB 5/10 GS 16	2434.0016
SB 5/10 GS 17	2434.0017
SB 5/10 GS 18	2434.0018
SB 5/10 GS 19	2434.0019
SB 5/10 GS 20	2434.0020
SB 5/10 GS 21	2434.0021
SB 5/10 GS 22	2434.0022
SB 5/10 GS 23	2434.0023
SB 5/10 GS 24	2434.0024
SB 5/10 GS 25	2434.0025
SB 5/10 GS 26	2434.0026
SB 5/10 GS 27	2434.0027
SB 5/10 GS 28	2434.0028
SB 5/10 GS 29	2434.0029
SB 5/10 GS 30	2434.0030
SB 5/10 GS 31	2434.0031
SB 5/10 GS 32	2434.0032
SB 5/10 GS 33	2434.0033
SB 5/10 GS 34	2434.0034
SB 5/10 GS 35	2434.0035
SB 5/10 GS 36	2434.0036
SB 5/10 GS 37	2434.0037
SB 5/10 GS 38	2434.0038
SB 5/10 GS 39	2434.0039
SB 5/10 GS 40	2434.0040
SB 5/10 GS 41	2434.0041
SB 5/10 GS 42	2434.0042
SB 5/10 GS 43	2434.0043
SB 5/10 GS 44	2434.0044
SB 5/10 GS 45	2434.0045
SB 5/10 GS 46	2434.0046
SB 5/10 GS 47	2434.0047
SB 5/10 GS 48	2434.0048
SB 5/10 GS 49	2434.0049
SB 5/10 GS 50	2434.0050
SB 5/10 GS 51	2434.0051
SB 5/10 GS 52	2434.0052
SB 5/10 GS 53	2434.0053
SB 5/10 GS 54	2434.0054
SB 5/10 GS 55	2434.0055
SB 5/10 GS 56	2434.0056
SB 5/10 GS 57	2434.0057
SB 5/10 GS 58	2434.0058
SB 5/10 GS 59	2434.0059
SB 5/10 GS 60	2434.0060
SB 5/10 GS 61	2434.0061
SB 5/10 GS 62	2434.0062
SB 5/10 GS 63	2434.0063
SB 5/10 GS 64	2434.0064
SB 5/10 GS 65	2434.0065
SB 5/10 GS 66	2434.0066
SB 5/10 GS 67	2434.0067
SB 5/10 GS 68	2434.0068
SB 5/10 GS 69	2434.0069
SB 5/10 GS 70	2434.0070
SB 5/10 GS 71	2434.0071
SB 5/10 GS 72	2434.0072
SB 5/10 GS 73	2434.0073
SB 5/10 GS 74	2434.0074
SB 5/10 GS 75	2434.0075
SB 5/10 GS 76	2434.0076
SB 5/10 GS 77	2434.0077
SB 5/10 GS 78	2434.0078

SB 5/...WH Pre-printed as shown Type	Cat. no.
SB 5/10 GS 79	2434.0079
SB 5/10 GS 80	2434.0080
SB 5/10 GS 81	2434.0081
SB 5/10 GS 82	2434.0082
SB 5/10 GS 83	2434.0083
SB 5/10 GS 84	2434.0084
SB 5/10 GS 85	2434.0085
SB 5/10 GS 86	2434.0086
SB 5/10 GS 87	2434.0087
SB 5/10 GS 88	2434.0088
SB 5/10 GS 89	2434.0089
SB 5/10 GS 90	2434.0090
SB 5/10 GS 91	2434.0091
SB 5/10 GS 92	2434.0092
SB 5/10 GS 93	2434.0093
SB 5/10 GS 94	2434.0094
SB 5/10 GS 95	2434.0095
SB 5/10 GS 96	2434.0096
SB 5/10 GS 97	2434.0097
SB 5/10 GS 98	2434.0098
SB 5/10 GS 99	2434.0099
SB 5/10 GS 100	2434.0100
SB 5/10 GS A	2475.0001
SB 5/10 GS B	2475.0002
SB 5/10 GS C	2475.0003
SB 5/10 GS D	2475.0004
SB 5/10 GS E	2475.0005
SB 5/10 GS F	2475.0006
SB 5/10 GS G	2475.0007
SB 5/10 GS H	2475.0008
SB 5/10 GS I	2475.0009
SB 5/10 GS J	2475.0010
SB 5/10 GS K	2475.0011
SB 5/10 GS L	2475.0012
SB 5/10 GS M	2475.0013
SB 5/10 GS N	2475.0014
SB 5/10 GS O	2475.0015
SB 5/10 GS P	2475.0016
SB 5/10 GS Q	2475.0017
SB 5/10 GS R	2475.0018
SB 5/10 GS S	2475.0019
SB 5/10 GS T	2475.0020
SB 5/10 GS U	2475.0021
SB 5/10 GS V	2475.0022
SB 5/10 GS W	2475.0023
SB 5/10 GS X	2475.0024
SB 5/10 GS Y	2475.0025
SB 5/10 GS Z	2475.0026
SB 5/10 GS PE	2475.0027
SB 5/10 GS PEN	2475.0028
SB 5/10 GS MP	2475.0029
SB 5/10 GS SL	2475.0030
SB 5/10 GS T1	2475.0031
SB 5/10 GS T2	2475.0032
SB 5/10 GS T3	2475.0033
SB 5/10 GS +	2475.0034
SB 5/10 GS -	2475.0035
SB 5/10 GS -	2475.0036
SB 5/10 GS Earth	2475.0037
SB 5/10 GS Earth with circuit	2475.0038

# Terminal markers – Quick marking system SB

## Quick marking system SB 6

The **SB 6** quick marking system is suitable for labelling all **CONTA-CLIP** terminals that are wider than 6 mm.

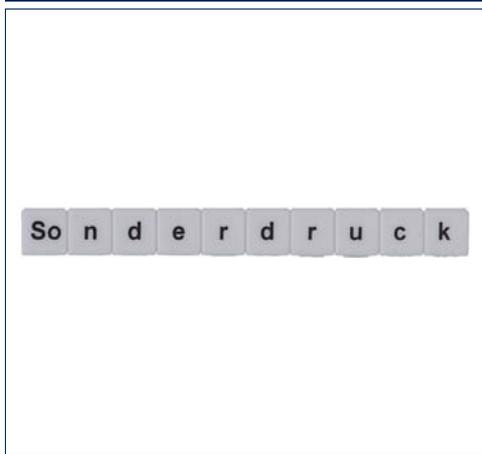
They are available in a variety of standard, pre-fabricated markers or with custom labelling.

The blank **SB 6** markers are also available as **MC SB 6/200 WH** (3301.7 on p. 356). They can easily be printed on using the **EMS** plotter system.

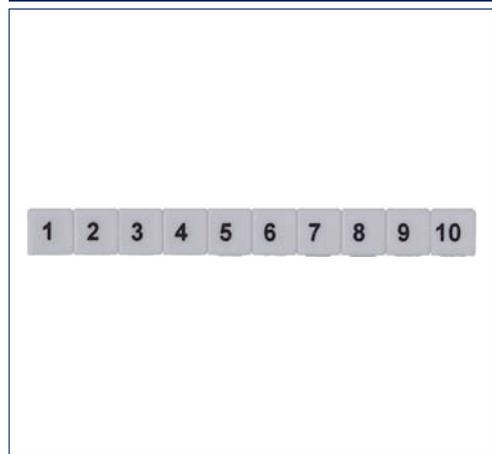
Material: Polyamide 6.6 UL 94-V2, halogen-free



## SB 6 So WH

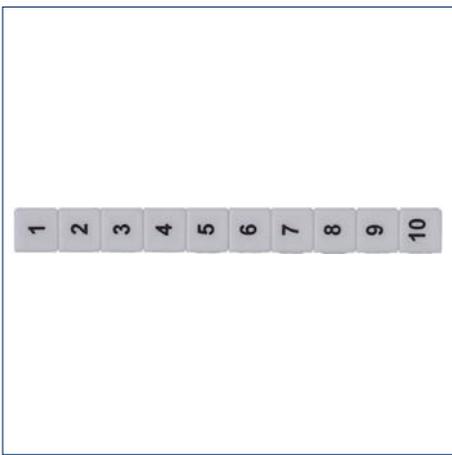


## SB 6 FW

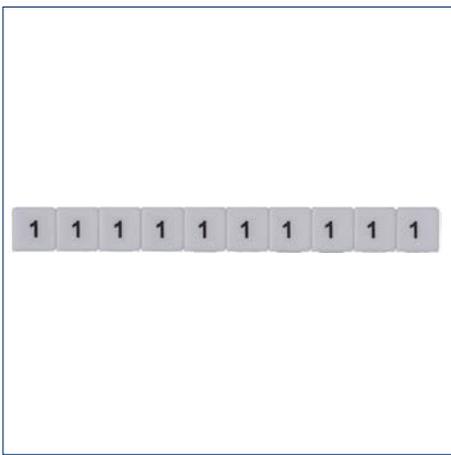


Type	Qty.	SB 6/...WH Pre-printed as shown Type	Cat. no.	SB 6/...WH Pre-printed as shown Type	Cat. no.
Type/colour		SB 6/10 WH		SB 6/10 FS U1; V1; W1	2990.0021
<b>Cat. no.</b>		<b>2035.0</b>	250	SB 6/10 FS U2; V2; W2	2990.0022
Type/colour	Special print	SB 6/10 So WH		SB 6/10 FS U3; V3; W3	2990.0023
<b>Cat. no.</b>		<b>2036.7</b>		SB 6/10 FS U4; V4; W4	2990.0024
				SB 6/10 FS U5; V5; W5	2990.0025
				SB 6/10 FS U6; V6; W6	2990.0026
				SB 6/10 FS U7; V7; W7	2990.0027
				SB 6/10 FS U8; V8; W8	2990.0028
				SB 6/10 FS U9; V9; W9	2990.0029
				SB 6/10 FS U10; V10; W10	2990.0030
				SB 6/10 FS U; V; W; N; PE	2149.0001
				SB 6/10 FS R; S; T; N; Earth with circuit	2149.0002
				SB 6/10 FS L1; L2; L3; N; PE	2149.0003
				SB 6/10 FW L1; L2; L3; N; Earth with circuit	2149.0004
				SB 6/10 GW 1	2102.0001
				SB 6/10 GW 2	2102.0002
				SB 6/10 GW 3	2102.0003
				SB 6/10 GW 4	2102.0004
				SB 6/10 GW 5	2102.0005
				SB 6/10 GW 6	2102.0006
				SB 6/10 GW 7	2102.0007
				SB 6/10 GW 8	2102.0008
				SB 6/10 GW 9	2102.0009
				SB 6/10 GW 10	2102.0010
				SB 6/10 GW 11	2102.0011
				SB 6/10 GW 12	2102.0012
				SB 6/10 GW 13	2102.0013
				SB 6/10 GW 14	2102.0014
				SB 6/10 GW 15	2102.0015
				SB 6/10 GW 16	2102.0016
				SB 6/10 GW 17	2102.0017
				SB 6/10 GW 18	2102.0018
				SB 6/10 GW 19	2102.0019
				SB 6/10 GW 20	2102.0020
				SB 6/10 GW 21	2102.0021
				SB 6/10 GW 22	2102.0022
				SB 6/10 GW 23	2102.0023
				SB 6/10 GW 24	2102.0024
				SB 6/10 GW 25	2102.0025
				SB 6/10 GW 26	2102.0026
				SB 6/10 GW 27	2102.0027
				SB 6/10 GW 28	2102.0028
				SB 6/10 GW 29	2102.0029
				SB 6/10 GW 30	2102.0030
				SB 6/10 GW 31	2102.0031
				SB 6/10 GW 32	2102.0032
				SB 6/10 GW 33	2102.0033
				SB 6/10 GW 34	2102.0034
				SB 6/10 GW 35	2102.0035
				SB 6/10 GW 36	2102.0036
				SB 6/10 GW 37	2102.0037
				SB 6/10 GW 38	2102.0038
				SB 6/10 GW 39	2102.0039
				SB 6/10 GW 40	2102.0040
				SB 6/10 GW 41	2102.0041
				SB 6/10 GW 42	2102.0042
				SB 4/50 GW 43	2102.0043
				SB 6/10 GW 44	2102.0044
				SB 6/10 GW 45	2102.0045
				SB 6/10 GW 46	2102.0046
				SB 6/10 GW 47	2102.0047
				SB 6/10 GW 48	2102.0048
				SB 6/10 GW 49	2102.0049
				SB 6/10 GW 50	2102.0050
				SB 6/10 GW 51	2102.0051
				SB 6/10 GW 52	2102.0052
				SB 6/10 GW 53	2102.0053
				SB 6/10 GW 54	2102.0054
				SB 6/10 GW 55	2102.0055
				SB 6/10 GW 56	2102.0056
				SB 6/10 GW 57	2102.0057
				SB 6/10 GW 58	2102.0058
				SB 6/10 GW 59	2102.0059
				SB 6/10 GW 60	2102.0060
				SB 6/10 GW 61	2102.0061
				SB 6/10 GW 62	2102.0062

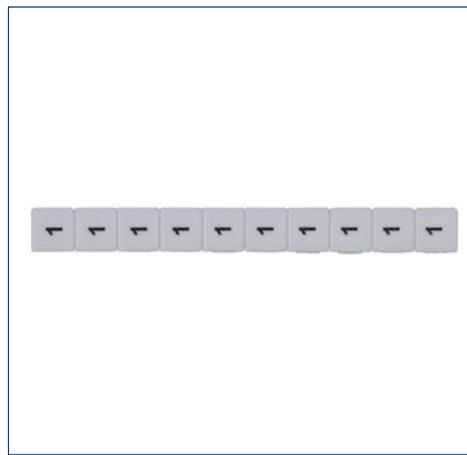
**SB 6 FS**



**SB 6 GW**



**SB 6 GS**



SB 6/...WH Pre-printed as shown Type	Cat. no.
SB 6/10 GW 63	2102.0063
SB 6/10 GW 64	2102.0064
SB 6/10 GW 65	2102.0065
SB 6/10 GW 66	2102.0066
SB 6/10 GW 67	2102.0067
SB 6/10 GW 68	2102.0068
SB 6/10 GW 69	2102.0069
SB 6/10 GW 70	2102.0070
SB 6/10 GW 71	2102.0071
SB 6/10 GW 72	2102.0072
SB 6/10 GW 73	2102.0073
SB 6/10 GW 74	2102.0074
SB 6/10 GW 75	2102.0075
SB 6/10 GW 76	2102.0076
SB 6/10 GW 77	2102.0077
SB 6/10 GW 78	2102.0078
SB 6/10 GW 79	2102.0079
SB 6/10 GW 80	2102.0080
SB 6/10 GW 81	2102.0081
SB 6/10 GW 82	2102.0082
SB 6/10 GW 83	2102.0083
SB 6/10 GW 84	2102.0084
SB 6/10 GW 85	2102.0085
SB 6/10 GW 86	2102.0086
SB 6/10 GW 87	2102.0087
SB 6/10 GW 88	2102.0088
SB 6/10 GW 89	2102.0089
SB 6/10 GW 90	2102.0090
SB 6/10 GW 91	2102.0091
SB 6/10 GW 92	2102.0092
SB 6/10 GW 93	2102.0093
SB 6/10 GW 94	2102.0094
SB 6/10 GW 95	2102.0095
SB 6/10 GW 96	2102.0096
SB 6/10 GW 97	2102.0097
SB 6/10 GW 98	2102.0098
SB 6/10 GW 99	2102.0099
SB 6/10 GW 100	2102.0100
SB 6/10 GW A	2157.0001
SB 6/10 GW B	2157.0002
SB 6/10 GW C	2157.0003
SB 6/10 GW D	2157.0004
SB 6/10 GW E	2157.0005
SB 6/10 GW F	2157.0006
SB 6/10 GW G	2157.0007
SB 6/10 GW H	2157.0008
SB 6/10 GW I	2157.0009
SB 6/10 GW J	2157.0010
SB 6/10 GW K	2157.0011
SB 6/10 GW L	2157.0012
SB 6/10 GW M	2157.0013
SB 6/10 GW N	2157.0014
SB 6/10 GW O	2157.0015
SB 6/10 GW P	2157.0016
SB 6/10 GW Q	2157.0017
SB 6/10 GW R	2157.0018
SB 6/10 GW S	2157.0019
SB 6/10 GW T	2157.0020
SB 6/10 GW U	2157.0021
SB 6/10 GW V	2157.0022
SB 6/10 GW W	2157.0023
SB 6/10 GW X	2157.0024
SB 6/10 GW Y	2157.0025
SB 6/10 GW Z	2157.0026
SB 6/10 GW PE	2157.0027
SB 6/10 GW PEN	2157.0028
SB 6/10 GW MP	2157.0029
SB 6/10 GW SL	2157.0030
SB 6/10 GW T1	2157.0031
SB 6/10 GW T2	2157.0032
SB 6/10 GW T3	2157.0033
SB 6/10 GW +	2175.0001
SB 6/10 GW -	2175.0002
SB 6/10 GW ~	2175.0003
SB 6/10 GW Earth	2175.0004
SB 6/10 GW Earth with circuit	2175.0005

SB 6/...WH Pre-printed as shown Type	Cat. no.
SB 6/10 GS 1	2103.0001
SB 6/10 GS 2	2103.0002
SB 6/10 GS 3	2103.0003
SB 6/10 GS 4	2103.0004
SB 6/10 GS 5	2103.0005
SB 6/10 GS 6	2103.0006
SB 6/10 GS 7	2103.0007
SB 6/10 GS 8	2103.0008
SB 6/10 GS 9	2103.0009
SB 6/10 GS 10	2103.0010
SB 6/10 GS 11	2103.0011
SB 6/10 GS 12	2103.0012
SB 6/10 GS 13	2103.0013
SB 6/10 GS 14	2103.0014
SB 6/10 GS 15	2103.0015
SB 6/10 GS 16	2103.0016
SB 6/10 GS 17	2103.0017
SB 6/10 GS 18	2103.0018
SB 6/10 GS 19	2103.0019
SB 6/10 GS 20	2103.0020
SB 6/10 GS 21	2103.0021
SB 6/10 GS 22	2103.0022
SB 6/10 GS 23	2103.0023
SB 6/10 GS 24	2103.0024
SB 6/10 GS 25	2103.0025
SB 6/10 GS 26	2103.0026
SB 6/10 GS 27	2103.0027
SB 6/10 GS 28	2103.0028
SB 6/10 GS 29	2103.0029
SB 6/10 GS 30	2103.0030
SB 6/10 GS 31	2103.0031
SB 6/10 GS 32	2103.0032
SB 6/10 GS 33	2103.0033
SB 6/10 GS 34	2103.0034
SB 6/10 GS 35	2103.0035
SB 6/10 GS 36	2103.0036
SB 6/10 GS 37	2103.0037
SB 6/10 GS 38	2103.0038
SB 6/10 GS 39	2103.0039
SB 6/10 GS 40	2103.0040
SB 6/10 GS 41	2103.0041
SB 6/10 GS 42	2103.0042
SB 6/10 GS 43	2103.0043
SB 6/10 GS 44	2103.0044
SB 6/10 GS 45	2103.0045
SB 6/10 GS 46	2103.0046
SB 6/10 GS 47	2103.0047
SB 6/10 GS 48	2103.0048
SB 6/10 GS 49	2103.0049
SB 6/10 GS 50	2103.0050
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SB 6/10 GS 53	2103.0053
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SB 6/10 GS 57	2103.0057
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SB 6/10 GS 59	2103.0059
SB 6/10 GS 60	2103.0060
SB 6/10 GS 61	2103.0061
SB 6/10 GS 62	2103.0062
SB 6/10 GS 63	2103.0063
SB 6/10 GS 64	2103.0064
SB 6/10 GS 65	2103.0065
SB 6/10 GS 66	2103.0066
SB 6/10 GS 67	2103.0067
SB 6/10 GS 68	2103.0068
SB 6/10 GS 69	2103.0069
SB 6/10 GS 70	2103.0070
SB 6/10 GS 71	2103.0071
SB 6/10 GS 72	2103.0072
SB 6/10 GS 73	2103.0073
SB 6/10 GS 74	2103.0074
SB 6/10 GS 75	2103.0075
SB 6/10 GS 76	2103.0076
SB 6/10 GS 77	2103.0077
SB 6/10 GS 78	2103.0078

SB 6/...WH Pre-printed as shown Type	Cat. no.
SB 6/10 GS 79	2103.0079
SB 6/10 GS 80	2103.0080
SB 6/10 GS 81	2103.0081
SB 6/10 GS 82	2103.0082
SB 6/10 GS 83	2103.0083
SB 6/10 GS 84	2103.0084
SB 6/10 GS 85	2103.0085
SB 6/10 GS 86	2103.0086
SB 6/10 GS 87	2103.0087
SB 6/10 GS 88	2103.0088
SB 6/10 GS 89	2103.0089
SB 6/10 GS 90	2103.0090
SB 6/10 GS 91	2103.0091
SB 6/10 GS 92	2103.0092
SB 6/10 GS 93	2103.0093
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SB 6/10 GS 98	2103.0098
SB 6/10 GS 99	2103.0099
SB 6/10 GS 100	2103.0100
SB 6/10 GS A	2161.0001
SB 6/10 GS B	2161.0002
SB 6/10 GS C	2161.0003
SB 6/10 GS D	2161.0004
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SB 6/10 GS M	2161.0013
SB 6/10 GS N	2161.0014
SB 6/10 GS O	2161.0015
SB 6/10 GS P	2161.0016
SB 6/10 GS Q	2161.0017
SB 6/10 GS R	2161.0018
SB 6/10 GS S	2161.0019
SB 6/10 GS T	2161.0020
SB 6/10 GS U	2161.0021
SB 6/10 GS V	2161.0022
SB 6/10 GS W	2161.0023
SB 6/10 GS X	2161.0024
SB 6/10 GS Y	2161.0025
SB 6/10 GS Z	2161.0026
SB 6/10 GS PE	2161.0027
SB 6/10 GS PEN	2161.0028
SB 6/10 GS MP	2161.0029
SB 6/10 GS SL	2161.0030
SB 6/10 GS T1	2161.0031
SB 6/10 GS T2	2161.0032
SB 6/10 GS T3	2161.0033
SB 6/10 GS +	2161.0034
SB 6/10 GS -	2161.0035
SB 6/10 GS ~	2161.0036
SB 6/10 GS Earth	2161.0037
SB 6/10 GS Earth with circuit	2161.0038

# Terminal markers – Quick marking system SB

## Quick marking system SB 8

The **SB 8** quick marking system is suitable for labelling all **CONTA-CLIP** terminals that are wider than 6 mm.

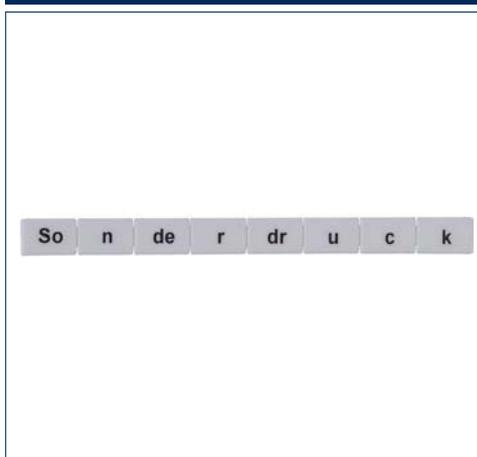
They are available in a variety of standard, prefabricated markers or with custom labelling.

The blank **SB 8** markers are also available as **MC SB 8/160 WH** (3328.7 on p. 357). They can easily be printed on using the **EMS** plotter system.

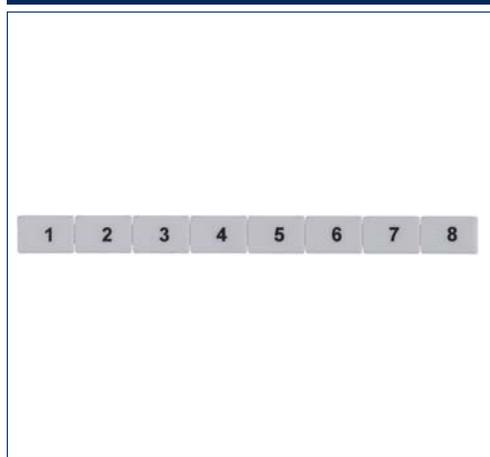
Material: polyamide 6.6 UL 94-V2, halogen-free  
Halogen-free



## SB 8 So WH

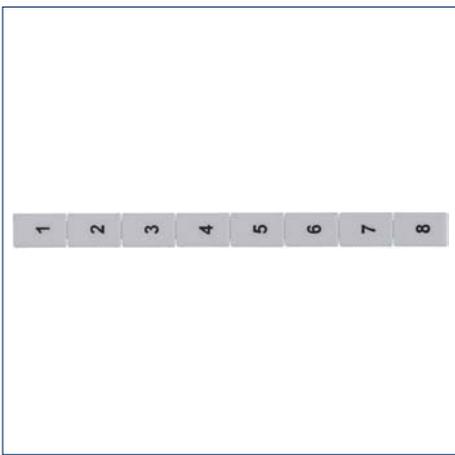


## SB 8 FW

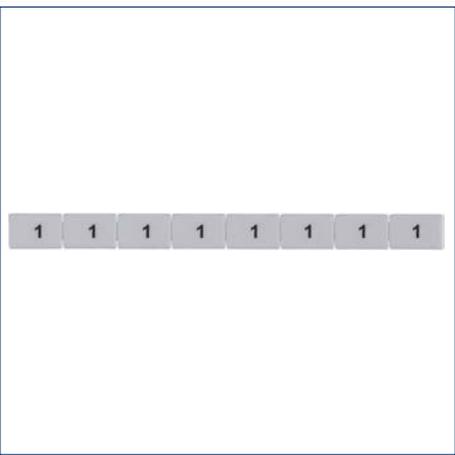


Type	Special print	SB 8/8 WH	Qty.	SB 8/...WH Pre-printed as shown	Cat. no.	SB 8/...WH Pre-printed as shown	Cat. no.
Type/colour	Special print	SB 8/8 WH	240	SB 8/8 FW 1-8	9476.0001	SB 8/8 FS R1; S1; T1	9482.0011
Cat. no.		2940.0		SB 8/8 FW 9-16	9476.0002	SB 8/8 FS R2; S2; T2	9482.0012
Type/colour		SB 8/8 So WH	240	SB 8/8 FW 17-24	9476.0003	SB 8/8 FS R3; S3; T3	9482.0013
Cat. no.		2941.7		SB 8/8 FW 25-32	9476.0004	SB 8/8 FS R4; S4; T4	9482.0014
				SB 8/8 FW 33-40	9476.0005	SB 8/8 FS R5; S5; T5	9482.0015
				SB 8/8 FW 41-48	9476.0006	SB 8/8 FS R6; S6; T6	9482.0016
				SB 8/8 FW 49-56	9476.0007	SB 8/8 FS R7; S7; T7	9482.0017
				SB 8/8 FW 57-64	9476.0008	SB 8/8 FS R8; S8; T8	9482.0018
				SB 8/8 FW 65-72	9476.0009	SB 8/8 FS R9; S9; T9	9482.0019
				SB 8/8 FW 73-80	9476.0010	SB 8/8 FS R10; S10; T10	9482.0020
				SB 8/8 FW 81-88	9476.0011	SB 8/8 FS U1; V1; W1	9482.0021
				SB 8/8 FW 89-96	9476.0012	SB 8/8 FS U2; V2; W2	9482.0022
				SB 8/8 FW 97-104	9476.0013	SB 8/8 FS U3; V3; W3	9482.0023
				SB 8/8 FW 105-112	9476.0014	SB 8/8 FS U4; V4; W4	9482.0024
				SB 8/8 FW 113-120	9476.0015	SB 8/8 FS U5; V5; W5	9482.0025
				SB 8/8 FW X1; Y1; Z1	9480.0001	SB 8/8 FS U6; V6; W6	9482.0026
				SB 8/8 FW X2; Y2; Z2	9480.0002	SB 8/8 FS U7; V7; W7	9482.0027
				SB 8/8 FW X3; Y3; Z3	9480.0003	SB 8/8 FS U8; V8; W8	9482.0028
				SB 8/8 FW X4; Y4; Z4	9480.0004	SB 8/8 FS U9; V9; W9	9482.0029
				SB 8/8 FW X5; Y5; Z5	9480.0005	SB 8/8 FS U10; V10; W10	9482.0030
				SB 8/8 FW X6; Y6; Z6	9480.0006	SB 8/8 FS U; V; W; N; PE	9483.0001
				SB 8/8 FW X7; Y7; Z7	9480.0007	SB 8/8 FS R; S; T; N; Earth with circuit	9483.0002
				SB 8/8 FW X8; Y8; Z8	9480.0008	SB 8/8 FS L1; L2; L3; N; PE	9483.0003
				SB 8/8 FW X9; Y9; Z9	9480.0009	SB 8/8 FW L1; L2; L3; N; Earth with circuit	9483.0004
				SB 5/10 FW X10; Y10; Z10	9480.0010		
				SB 8/8 FW R1; S1; T1	9480.0011		
				SB 8/8 FW R2; S2; T2	9480.0012	SB 8/8 GW 0	9478.0000
				SB 8/8 FW R3; S3; T3	9480.0013	SB 8/8 GW 1	9478.0001
				SB 8/8 FW R4; S4; T4	9480.0014	SB 8/8 GW 2	9478.0002
				SB 8/8 FW R5; S5; T5	9480.0015	SB 8/8 GW 3	9478.0003
				SB 8/8 FW R6; S6; T6	9480.0016	SB 8/8 GW 4	9478.0004
				SB 8/8 FW R7; S7; T7	9480.0017	SB 8/8 GW 5	9478.0005
				SB 8/8 FW R8; S8; T8	9480.0018	SB 8/8 GW 6	9478.0006
				SB 8/8 FW R9; S9; T9	9480.0019	SB 8/8 GW 7	9478.0007
				SB 8/8 FW R10; S10; T10	9480.0020	SB 8/8 GW 8	9478.0008
				SB 8/8 FW U1; V1; W1	9480.0021	SB 8/8 GW 9	9478.0009
				SB 8/8 FW U2; V2; W2	9480.0022	SB 8/8 GW X	9478.0010
				SB 8/8 FW U3; V3; W3	9480.0023	SB 8/8 GW PE	9478.0011
				SB 8/8 FW U4; V4; W4	9480.0024	SB 8/8 GW L1	9478.0012
				SB 8/8 FW U5; V5; W5	9480.0025	SB 8/8 GW L2	9478.0013
				SB 8/8 FW U6; V6; W6	9480.0026	SB 8/8 GW L3	9478.0014
				SB 8/8 FW U7; V7; W7	9480.0027	SB 8/8 GW N	9478.0015
				SB 8/8 FW U8; V8; W8	9480.0028	SB 8/8 GW +	9478.0016
				SB 8/8 FW U9; V9; W9	9480.0029	SB 8/8 GW -	9478.0017
				SB 8/8 FW U10; V10; W10	9480.0030	SB 8/8 GW A	9484.0001
				SB 8/8 FW U; V; W; N; PE	9481.0001	SB 8/8 GW B	9484.0002
				SB 8/8 FW R; S; T; N; Earth with circuit	9481.0002	SB 8/8 GW C	9484.0003
				SB 8/8 FW L1; L2; L3; N; PE	9481.0003	SB 8/8 GW D	9484.0004
				SB 8/8 FW L1; L2; L3; N; Earth with circuit	9481.0004	SB 8/8 GW E	9484.0005
						SB 8/8 GW F	9484.0006
						SB 8/8 GW G	9484.0007
						SB 8/8 GW H	9484.0008
						SB 8/8 GW I	9484.0009
						SB 8/8 GW J	9484.0010
						SB 8/8 GW K	9484.0011
						SB 8/8 GW L	9484.0012
						SB 8/8 GW M	9484.0013
						SB 8/8 GW N	9484.0014
						SB 8/8 GW O	9484.0015
						SB 8/8 GW P	9484.0016
						SB 8/8 GW Q	9484.0017
						SB 8/8 GW R	9484.0018
						SB 8/8 GW S	9484.0019
						SB 8/8 GW T	9484.0020
						SB 8/8 GW U	9484.0021
						SB 8/8 GW V	9484.0022
						SB 8/8 GW W	9484.0023
						SB 8/8 GW X	9484.0024
						SB 8/8 GW Y	9484.0025
						SB 8/8 GW Z	9484.0026
						SB 8/8 GW PE	9484.0027
						SB 8/8 GW PEN	9484.0028
						SB 8/8 GW MP	9484.0029
						SB 8/8 GW SL	9484.0030
						SB 8/8 GW T1	9484.0031
						SB 8/8 GW T2	9484.0032
						SB 8/8 GW T3	9484.0033

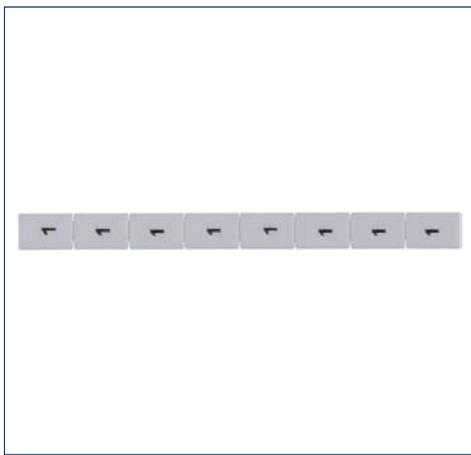
**SB 8 FS**



**SB 8 GW**



**SB 8 GS**



<b>SB 8/...WH</b> Pre-printed as shown Type	<b>Cat. no.</b>
SB 8/8 GW +	9484.0034
SB 8/8 GW -	9484.0035
SB 8/8 GW ~	9484.0036
SB 8/8 GW Earth	9484.0037
SB 8/8 GW Earth with circuit	9484.0038

SB 8/8 GS 0	9479.0000
SB 8/8 GS 1	9479.0001
SB 8/8 GS 2	9479.0002
SB 8/8 GS 3	9479.0003
SB 8/8 GS 4	9479.0004
SB 8/8 GS 5	9479.0005
SB 8/8 GS 6	9479.0006
SB 8/8 GS 7	9479.0007
SB 8/8 GS 8	9479.0008
SB 8/8 GS 9	9479.0009
SB 8/8 GS X	9479.0010
SB 8/8 GS PE	9479.0011
SB 8/8 GS L1	9479.0012
SB 8/8 GS L2	9479.0013
SB 8/8 GS L3	9479.0014
SB 8/8 GS N	9479.0015
SB 8/8 GS +	9479.0016
SB 8/8 GS -	9479.0017
SB 8/8 GS A	9485.0001
SB 8/8 GS B	9485.0002
SB 8/8 GS C	9485.0003
SB 8/8 GS D	9485.0004
SB 8/8 GS E	9485.0005
SB 8/8 GS F	9485.0006
SB 8/8 GS G	9485.0007
SB 8/8 GS H	9485.0008
SB 8/8 GS I	9485.0009
SB 8/8 GS J	9485.0010
SB 8/8 GS K	9485.0011
SB 8/8 GS L	9485.0012
SB 8/8 GS M	9485.0013
SB 8/8 GS N	9485.0014
SB 8/8 GS O	9485.0015
SB 8/8 GS P	9485.0016
SB 8/8 GS Q	9485.0017
SB 8/8 GS R	9485.0018
SB 8/8 GS S	9485.0019
SB 8/8 GS T	9485.0020
SB 8/8 GS U	9485.0021
SB 8/8 GS V	9485.0022
SB 8/8 GS W	9485.0023
SB 8/8 GS X	9485.0024
SB 8/8 GS Y	9485.0025
SB 8/8 GS Z	9485.0026
SB 8/8 GS PE	9485.0027
SB 8/8 GS PEN	9485.0028
SB 8/8 GS MP	9485.0029
SB 8/8 GS SL	9485.0030
SB 8/8 GS T1	9485.0031
SB 8/8 GS T2	9485.0032
SB 8/8 GS T3	9485.0033
SB 8/8 GS +	9485.0034
SB 8/8 GS -	9485.0035
SB 8/8 GS ~	9485.0036
SB 8/8 GS Earth	9485.0037
SB 8/8 GS Earth with circuit	9485.0038













# Selection list of terminal markers for other manufacturers

## Terminal markers for Phoenix Contact

Screw terminals	Markers				
	MC MM 5x5	MC MM 5x10	MC MM 6x5	MC MM 6x10	MC MM 8x5
AKG 16/35				x	
AKG 4		x			
DFK 4...				x	
DFK 5...	x	x	x	x	x
DIK (D) 1,5	x	m	x	m	
DLK 2,5	x	m	x	m	
DOK (D) 1,5	x	m	x	m	
GTF 76		x		x	
HDFK 10	x	x	x	x	x
HDFK 16	x	x	x	x	x
HDFK 25	x	x	x	x	x
HDFK 4	x	x	x	x	x
HDFK 50	x	x	x	x	x
HDFK 95	x	x	x	x	x
HV M.../1	x	x	x	x	x
HV M.../2	x	x	x	x	x
MBK 3/E-Z	x	s			
MBK 5/E-Z	x	x	x	x	
MBK 6/E	x	x	x	x	x
MBKKB 2,5	x	s			
MT 1,5		x		x	
MTK-LOE	x	s			
MTK-P/P	x	s			
MTK T/P	x	s			
OTTA 2,5		x		x	
OTTA 25		x		x	
OTTA 6		x		x	
PIK 4-...	x		x	x	
PIK 6-...	x	x	x	x	x
RT (O) 3...	x	x	x	x	x
RT (O) 4...	x	x	x	x	x
RT (O) 8...	x	x	x	x	x
SLKK 5	x	x	x	x	
TMC...	x		x	s	
TMCP SOCKET...	x	x	x	x	
UDK 3	x	s			
UDK4	x		x	s	
UDK 4-MTK				s	
UDK 5-MTK	x		x	s	
UDMTK 5...				s	
UGSK 6	x		x		x
UGSK/S	x		x		x
UHK 4...		x		x	
UHV 150	x	x	x	x	x
UHV 240	x	x	x	x	x
UHV 25	x	x	x	x	x
UHV 95	x	x	x	x	x
UIK 16	x	x	x	x	x
UIKN 16	x	m	x	m	x
UIK 35	x	x	x	x	x
UK 1,5 N					
UK 10 N	x	x	x	x	x
UK 10.3-HESI		x		x	
UK 10-DRHESI	x		x	x	x
UK 16 N	x	x	x	x	x
UK 2,5 N	x	s			
UK 3 N	x	s			
UK 4...	x	m	x	m	
UK 35	x	x	x	x	x
UK 5 N	x		x	s	
UK 5-HESI	x	x	x	x	x
UK 5-MTK				x	
UK 6 N	x	x	x	x	x
UK 6,3-HESI	x	x	x	x	x
UK 6-FSI/C	x	x	x	x	x
UKB 4...				x	
UKH 150	x	x	x	x	x
UKH 240	x	x	x	x	x
UKH 50	x	x	x	x	x
UKH 95	x	x	x	x	x
UKK 3	x	s			
UKK 4	x	x	x	s	
UKK 5...	x	x	x	s	
UKKB 10	x	x	x	x	x
UKKB 10/2,5		s			
UKN 10 N	x	x	x	x	x
UKN 16 N		x		x	
UKN 2,5	x		x	s	
UKN 35		x		x	
UKN 5	x		x	s	
UKN 6 N	x	x	x	x	x
UK - SI	x		x	s	x
URDK 6	x	x	x	x	x
URKN		x		x	
URKN/S		x		x	
URTK 6	x	x	x	x	x
URTK/S	x	x	x	x	x
URTKD/SP	x	x	x	x	x
URTK/SS	x		x	s	x
URTK/SP	x	x	x	x	x
USED 16		x		x	
USED 27		x		x	
USEN 14		x		x	
USEN 18		x		x	
USIG	x	x	x	x	x
USK 4	x	m	x	m	
USLKG 1,5 N					
USLKG 10 N	x	x	x	x	x
USLKG 16 N	x	x	x	x	x
USLKG 2,5 N	x	s			
USLKG 3	x	s			
USLKG 35	x	x	x	x	x
USLKG 5	x		x	s	
USLKG 50	x	x	x	x	x

s = can be assembled as side marker m = can be assembled as middle marker

Screw terminals	Markers				
	MC MM 5x5	MC MM 5x10	MC MM 6x5	MC MM 6x10	MC MM 8x5
USLKG 6 N		x		x	
USLKG 95	x	x	x	x	x
UT 10...	x	x	x	x	x
UT 16...	x	x	x	x	x
UT 2.5...	x	s			
UT 35	x	x	x	x	x
UT 4	x		x	s	
UT 6	x	x	x	x	x
UTME (D) 6...	x	x	x	x	x
UTTB 2,5...	x	x			
UTTB 4...	x	x	x	x	
UVKB 4...	x	m	x	x	
VBSN 4	x		x	x	
VBST 4	x		x	x	
VIOK 1,5	x		x	s	
<b>Tension-spring terminals</b>					
MZB 1,5...	x				
MZDB 1,5...	x				
MZFK 1,5	x				
MZFKK 1,5	x				
MZFKKB 1,5	x				
SC 2,5	x				
SP 2,5					
SRTK 6...	x	x	x	x	x
SGSK 6...	x	x	x	x	x
SRDK 6...	x	x	x	x	x
ST 2,5...	x	m			
ST 4...	x		x	m	
ST 4-HESI	x	x	x	x	x
ST 4-FSI	x	x	x	x	x
ST 6...	x	x	x	x	x
ST 10...	x	x	x	x	x
ST 16...	x	x	x	x	x
ST 35...	x	x	x	x	x
STI 10...	x	x	x	x	x
STI 16	x	x	x	x	x
STI 2,5...	x	m			
STI 4...	x		x	m	
STIO	x				
STN 10	x	x	x	x	x
STN 16	x	x	x	x	x
STN 2,5	x	m			
STN 35	x	x	x	x	x
STN 4	x		x	m	
STS 2,5		m			
STS 4	x		x	m	
STS 6...	x	x	x	x	x
STTB 1.5...					
STTB 2,5...	x				
STTB 4...	x		x		
STTB 5...	x	x			
STTB 6...	x	x	x	x	
STTB 8...	x	x	x	x	
STTB 10...	x	x	x	x	x
STTB 16...	x	x	x	x	x
TT-STTB...				s	
ZDIK 1,5...					
ZDMTK 2,5	x		x		
ZFK-6-DRHESI	x	x	x	x	x
ZFKK 2,5...	x		x	x	x
ZGSK 4	x	x	x	x	x
ZPV 1,5/2,5	x	m			
SRDK...	x	x	x	x	x
ZRTK 4	x	x	x	x	x
ZRV 8	x			m	
<b>Pressure-spring terminals</b>					
DT 2,5...	x	x			
DTI 2,5...	x	x			
DTN 2,5...	x	x			
DTI 4...	x	x	x	x	
DTN 4...	x	x	x	x	
DTI 6...	x	x	x	x	x
DTN 6...	x	x	x	x	x
DTME(D) 6...	x	x	x	x	x
DT 6/2,5-DRHESI	x	x	x	x	x
<b>Quick-connect terminals</b>					
QTC...1,5...	x				
QTC...1,5...	x				
QTC...2,5	x	x	x		

**Terminal markers for Wago**

Feed-through terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-101/104	x	
280-601/602	x	
280-603/633/634	x	
280-604/621/826/626	x	
280-641/651/654	x	
280-646/656/946	x	
280-653/671/672	x	
280-681/684/650	x	
280-830...835	x	
280-901...906	x	
280-989...995	x	
280-996...999	x	
280-691	x	
281-101/104		x
281-601/604		x
281-631/651		x
281-652...654		x
281-663/664/668		x
281-678/681/684		x
281-901/902/904		x
281-992...994/998/691		x
282-101/104		x
282-601/604		x
282-681/682/684/687		x
282-901/902/904/907		x
282-992/993/691		x
283-101/104		x
283-601/604/607		x
283-671/672/674/677		x
283-901/902/904/907		x
283-992/998/691		x
284-101/104		x
284-601/604/607		x
284-621/624		x
284-681/682/684/687		x
284-691/992/993		x
284-901/902/904/907		x
285-194/195		x
285-601/604/607		x
285-634/635		x
285-691		x
285-992/995		x
290-861/864/867	x	
780-992/993	x	
781-992/993		x
782-992		x
783-992		x
784-992		x
785-601/604/607/613		x
812-140	x	x
880-661/662/664	x	
880-681/682/684	x	
880-831/832/834	x	
880-901/902/904	x	
880-961/964/962	x	

**Terminal markers for Entelec**

Terminal blocks	Markers	
	MC MM 5x10	MC MM 6x10
HD 6/9		x
M 10/16	x	
M 10/22		x
M 16/12		x
M 35/16		x
		x
		x

Protective earth terminals	Markers	
	MC MM 5x10	MC MM 6x10
285-637		
780-607	x	
780-637	x	
781-607		x
782-607		x
783-607		x
784-607		x
880-687	x	
880-837	x	
880-907	x	

Fused terminals	Markers	
	MC MM 5x10	MC MM 6x10
282-698		x
282-696		x
281-611/612/616/622		x
281-624/672		x
281-613/623		x
282-122		x
282-120		x
282-126		x
282-124		x
282-128		x

Double-level terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-513	x	
280-517	x	
280-519/529	x	
280-520/530	x	
280-521/525	x	
280-522/526	x	
280-523/533	x	
280-524/534	x	
280-527/537	x	
280-531	x	
280-532	x	
280-543	x	
281-619/629		x
281-620/630		x

Three- and four-level terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-549/551	x	
280-550	x	
280-552	x	
280-547/557/597	x	
280-548/558	x	
281-531-532		x
281-530		x
780-601/602/604	x	
780-631/651/654	x	
781-601/604		x
781-631/651		x
782-601/604		x
784-601/604		x
783-601/604		x

Routing-potential terminals	Markers	
	MC MM 5x10	MC MM 6x10
727-...		x
280-675	x	

Honeycomb elements	Markers	
	MC MM 5x10	MC MM 6x10
726-...	x	

Pluggable relay and base	Markers	
	MC MM 5x10	MC MM 6x10
788-...	x	x

Installation terminals	Markers	
	MC MM 5x10	MC MM 6x10
775-641	x	
775-642/649	x	
775-646	x	
775-645	x	
777-641		x
777-642		x
777-646		x
777-645		x
777-648		x
777-647		x
777-649		x
777-651		x
777-650		x
777-652		x
776-641		x
776-645/646		x
776-649/642		x
776-650/651		x

Rated-disconnect terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-612/614	x	
280-622/623/627	x	
280-649/676/685/695	x	
280-683	x	
280-805/836/829/839	x	
280-868/870/876/879	x	
280-869/871/880	x	
280-874/881/883/885	x	
280-875/882/884	x	
280-912...914	x	
281-659/660		x
281-666		x
281-683		x
281-912		x
282-131		x
282-133		x
282-135		x
282-138...141		x
282-694/699		x
282-811/821		x
282-860		x
282-865		x
282-866/282/695/697		x
282-870		x
781-613/623	x	
781-643/653		x
782-613/623		x
783-613/623		x
784-613/623		x

Initiator terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-553/560	x	
280-559	x	
280-561	x	
280-563	x	
280-567	x	
280-570	x	
280-571	x	
280-573	x	
280-574	x	
280-577	x	
280-580	x	
280-582	x	
280-584	x	
280-587	x	
280-588	x	

Actuator terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-515	x	
280-554	x	
280-555	x	
280-556	x	
280-562	x	
280-565	x	
280-566	x	
280-568	x	
280-572	x	
280-575	x	
280-576	x	
280-578	x	
280-583	x	
280-585	x	
280-586	x	
280-592	x	
280-593	x	

Diode-LED terminals	Markers	
	MC MM 5x10	MC MM 6x10
280-613	x	
280-623	x	
280-624	x	
280-655	x	
280-658	x	
280-673	x	
280-809	x	
280-815	x	
280-915	x	
280-940	x	
280-941	x	
280-942	x	
280-943	x	
281-603		x
281-633		x
281-634		x
281-635		x
281-636		x
281-665		x
281-673		x
281-915		x



MC MM 6 x 5	MC MM 8 x 5			
				
<p style="text-align: right;"><b>Qty.</b></p> MC MM 6x5/200 WH <b>9402.7*</b> 1000	<p style="text-align: right;"><b>Qty.</b></p> MC MM 8x5/160 WH <b>9404.7*</b> 800			
MC MM 6x5/200 So WH <b>9403.7*</b> 1000	MC MM 8x5/160 So WH <b>9405.7*</b> 800			
⑦	⑦			
6 x 5 10 200	8 x 5 8 160			
PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2			
EMS CCI-10 BS-1 3 2 3 2 ≥ 6 Phoenix	EMS CCI-10 BS-1 5 2 3 3 ≥ 8 Phoenix			

\*Available starting in the first quarter of 2011.





## Wire and cable markers – Maxicard MC KMC

### Maxicard MC KMC

The **KMC** Maxicard provides a clear, quick and simple solution for marking a wire. The **MC KMC** can be attached to a wire that has already been connected. The plastic halves snap together to hold the marker captive on the wire.

Perfect for use with wire cross-sections from 0.14-1.0 mm<sup>2</sup> or 0.9-2.6 mm<sup>2</sup>.

Three different lengths are available.

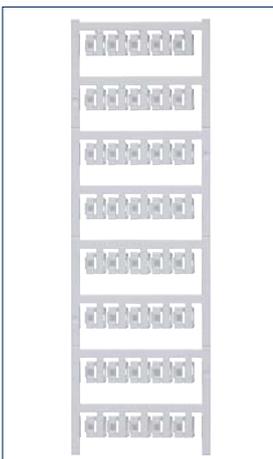
They are available blank or with custom printing.

The blank Maxicards can easily be printed using the **EMS** plotter system.

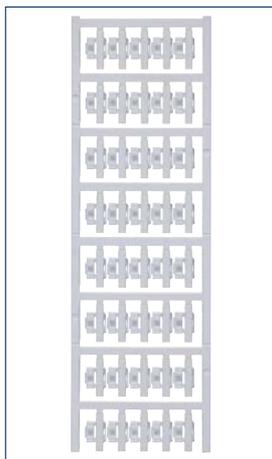
Material: Material: polyamide 6.6 UL 94-V2, halogen-free



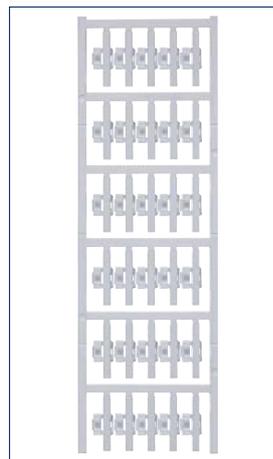
### MC KMC 0/4x12



### MC KMC 0/4x21



### MC KMC 0/4x30



Type		Qty.		Qty.		Qty.	
Type/colour		MC KMC 0/4x12/40 WH		MC KMC 0/4x21/40 WH		MC KMC 0/4x30/30 WH	
<b>Cat. no.</b>		<b>9810.7*</b>	200	<b>9812.7*</b>	200	<b>9814.7*</b>	150
Type/colour	Special print	MC KMC 0/4x12/40 So WH		MC KMC 0/4x21/40 So WH		MC KMC 0/4x30/30 So WH	
<b>Cat. no.</b>		<b>9811.7*</b>	200	<b>9813.7*</b>	200	<b>9815.7*</b>	150
Type/colour							
<b>Cat. no.</b>							
Type/colour							
<b>Cat. no.</b>							

Colours available	5 7 8 9 0	5 7 8 9 0	5 7 8 9 0
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### Characteristics

### Dimensions

Length x width of labelling field, mm	12 x 4.1	21 x 4.1	30 x 4.1
Number of markers per row	5	5	5
Number of markers per card	40	40	30

### Material

Material	PA6.6, halogen-free	PA6.6, halogen-free	PA6.6, halogen-free
Temperature range	-40°C to +105°C	-40°C to +105°C	-40°C to +105°C
Flamm. class acc. to UL 94	V2	V2	V2

### Inscription

Plotter	EMS	EMS	EMS
Plotter inlay	CCI-10	CCI-10	CCI-10
Marker pen	BS-1	BS-1	BS-1
Number of characters   lines when using font size 14 and plotter pen 0.25: horizontal	8   1	15   1	22   1
Number of characters   lines when using font size 14 and plotter pen 0.25: vertical	2   5	2   5	2   5

### Application

Wire cross-section, mm <sup>2</sup>	0.14 - 1.0	0.14 - 1.0	0.14 - 1.0
Outer diameter of insulation in mm	0.9 - 2.6	0.9 - 2.6	0.9 - 2.6

### Additional accessories

More accessories starting on page 264.



## Wire and cable markers – Maxicard MC ESS and MC GS

### Maxicard MC ESS

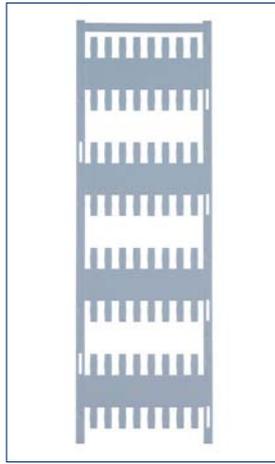
The **Maxicard ESS** provides a clear, quick and simple solution for marking a wire. The **MC ESS** single markers are pushed into custom-designed **KH**, **KHZ**, **KH E** or **KSH** cable-marker sleeves.

- When used together, the **MCESS** and the cable marker sleeves ensure that your labels are protected from environmental influences.
- Can be used for marking wires up to 70 mm<sup>2</sup>. Available in five different lengths. They are available blank or with custom printing. The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

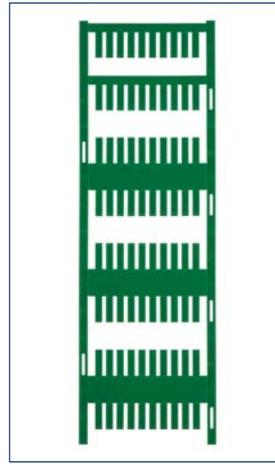
Material: Material: polyamide 6.6 UL 94-V2, halogen-free



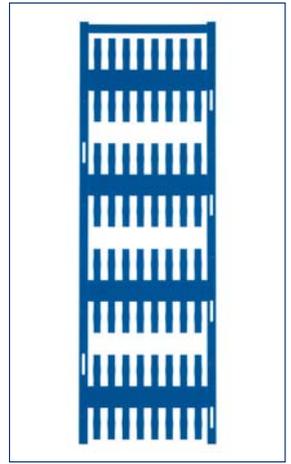
### MC ESS 12/64



### MC ESS 15/80



### MC ESS 18/64



Type		Qty.		Qty.		Qty.
Type/colour			MC ESS 12/64 WH		MC ESS 15/80 WH	
<b>Cat. no.</b>		320	<b>3316.7</b>	320	<b>3317.7</b>	400
Type/colour	Special print		MC ESS 12/64 So WH		MC ESS 15/80 So WH	
<b>Cat. no.</b>		320	<b>3364.7</b>	320	<b>3365.7</b>	400
Type/colour						
<b>Cat. no.</b>						
Type/colour						
<b>Cat. no.</b>						

Colours available			
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### Characteristics

### Dimensions

Length x width, mm	12x4	15x4	18x4
Number of markers per row	8	10	8
Number of markers per card	64	80	64

### Material

Material	PA6.6, halogen-free	PA6.6, halogen-free	PA6.6, halogen-free
Temperature range	-40°C to +105°C	-40°C to +105°C	-40°C to +105°C
Flamm. class acc. to UL 94	V2	V2	V2

### Inscription

Plotter	EMS	EMS	EMS
Plotter inlay	CCI-10	CCI-10	CCI-10
Marker pen	BS-1	BS-1	BS-1
Number of characters   lines when using font size 14 and plotter pen 0.25: horizontal	8 1	11 2	13 2
Number of characters   lines when using font size 14 and plotter pen 0.25: vertical	2 5	3 5	3 5

### Application

### Accessories

		Page	Qty.		Page	Qty.		Page	Qty.
Cable marker sleeves KH	KH 02/12			KH 02/15			KH 02/18		
<b>Cat. no.</b>	<b>4900.0</b>	370	200	<b>4901.0</b>	370	200	<b>4902.0</b>	370	200
Cable marker sleeves KH	KH 10/12			KH 10/15			KH 10/18		
<b>Cat. no.</b>	<b>4904.0</b>	370	200	<b>4905.0</b>	370	200	<b>4906.0</b>	370	200
Cable marker sleeves KH	KH 20/12			KH 20/15			KH 20/18		
<b>Cat. no.</b>	<b>4908.0</b>	370	100	<b>4909.0</b>	370	100	<b>4910.0</b>	370	100
Cable marker sleeves KH	KH 30/12			KH 30/15			KH 30/18		
<b>Cat. no.</b>	<b>4912.0</b>	371	50	<b>4913.0</b>	371	50	<b>4914.0</b>	371	50
Cable marker sleeves KHZ	KHZ 02/12			KHZ 02/15			KHZ 02/18		
<b>Cat. no.</b>	<b>5984.0</b>	371	200	<b>5985.0</b>	371	200	<b>5986.0</b>	371	200
Cable marker sleeves KHZ	KHZ 10/12			KHZ 10/15			KHZ 10/18		
<b>Cat. no.</b>	<b>5988.0</b>	371	200	<b>5989.0</b>	371	200	<b>5990.0</b>	371	200
Cable marker sleeves KHZ	KHZ 20/12			KHZ 20/15			KHZ 20/18		
<b>Cat. no.</b>	<b>5992.0</b>	371	100	<b>5993.0</b>	371	100	<b>5994.0</b>	371	100
Cable marker sleeves KHZ	KHZ 30/12			KHZ 30/15			KHZ 30/18		
<b>Cat. no.</b>	<b>5996.0</b>	371	50	<b>5997.0</b>	371	50	<b>5998.0</b>	371	50
Cable marker sleeves KH E	KH E 0.5/12			KH E 0.5/15			KH E 0.5/18		
<b>Cat. no.</b>	<b>9360.0</b>	372	2000	<b>9361.0</b>	372	2000	<b>9362.0</b>	372	1000
Cable marker sleeves KH E	KH E 2.5/12			KH E 2.5/15			KH E 2.5/18		
<b>Cat. no.</b>	<b>9365.0</b>	372	1000	<b>9366.0</b>	372	1000	<b>9367.0</b>	372	1000
Cable marker sleeves KH E	KH E 4.0/12			KH E 4.0/15			KH E 4.0/18		
<b>Cat. no.</b>	<b>9370.0</b>	372	1000	<b>9371.0</b>	372	1000	<b>9372.0</b>	372	1000
Cable marker sleeves KH E	KH E 10.0/12			KH E 10.0/15			KH E 10.0/18		
<b>Cat. no.</b>	<b>9375.0</b>	373	500	<b>9376.0</b>	373	500	<b>9377.0</b>	373	500
Cable marker sleeves KH E	KH E 25.0/12			KH E 25.0/15			KH E 25.0/18		
<b>Cat. no.</b>	<b>9380.0</b>	373	500	<b>9381.0</b>	373	500	<b>9382.0</b>	373	500
Cable marker sleeves KH E	KH 70.0/12			KH 70.0/15			KH 70.0/18		
<b>Cat. no.</b>	<b>9385.0</b>	373	250	<b>9386.0</b>	373	250	<b>9387.0</b>	373	250
Cable marker sleeves KSH							KSH 6/33		
<b>Cat. no.</b>							<b>2383.0</b>	382	100

### Additional accessories

More accessories starting on page 264.



Wire and cable markers – Cable marker sleeves KH/KHZ

Cable marker sleeve KH and KHZ

The KH and KHZ cable marker sleeves, used in combination with the **ESS Maxicard**, enable cables to be labelled quickly and conveniently.

- The ferrule is easier to attach to the wire because of the special bellows shape of the cable marker sleeve.
- When used together, the **MCESS** and the **KH** and **KHZ** cable marker sleeves ensure that your labels are protected from environmental influences.
- Oval-shaped pocket makes the labels easy to insert before or after installation.
- The elastic pocket both protects and secures the marker.
- Can be used for marking wires up to 70 mm<sup>2</sup>.
- Available in five different lengths and four wire diameters.

Material: KH Soft PVC, no cadmium or silicone

Material: KHZ Soft PVC, no cadmium, halogen or silicone

KH 02

KH 10

KH 20



Type	KH 02		KH 10		KH 20	
Type/colour	Qty.	Appropriate markers	Qty.	Appropriate markers	Qty.	Appropriate markers
<b>Cat. no.</b>						
Type/colour						
<b>Cat. no.</b>						
Type/colour						
<b>Cat. no.</b>						
Type/colour						
<b>Cat. no.</b>						
Type/colour						
<b>Cat. no.</b>						
Type/colour						
<b>Cat. no.</b>						
Colours available	Transparent		Transparent		Transparent	
<b>Characteristics</b>						
<b>Dimensions</b>						
Length KH../12 KH../15 KH../18 KH../21 KH../30 x Width x Height (mm)	12 15 18 21 30 x 5 x 5		12 15 18 21 30 x 5 x 7		12 15 18 21 30 x 6 x 10	
<b>Material</b>						
Material	Soft PVC, no cadmium or silicone		Soft PVC, no cadmium or silicone		Soft PVC, no cadmium or silicone	
Temperature range	-30°C to +60°C		-30°C to +60°C		-30°C to +60°C	
Flamm. class acc. to UL 94	V0		V0		V0	
Resistance	Oils, benzene, gamma and UV radiation		Oils, benzene, gamma and UV radiation		Oils, benzene, gamma and UV radiation	
<b>Inscription</b>						
Can be marked with	MC ESS series		MC ESS series		MC ESS series	
<b>Application</b>						
Wire cross-section, mm <sup>2</sup>	0.25 - 1.5		1.5 - 4.0		2.5 - 16.0	
Outer diameter of insulation in mm	1.3 - 3.0		2.5 - 5.0		4.0 - 10.0	
<b>Additional accessories</b>						

More accessories starting on page 264.





**KH E 10**

**KH E 25**

**KH E 70**



Qty.	Appropriate markers	Qty.	Appropriate markers	Qty.	Appropriate markers
KH E 10.0/12	MC ESS 12	KH E 25.0/12	MC ESS 12	KH E 70.0/12	MC ESS 12
<b>9375.0</b>	500 Page 368	<b>9380.0</b>	500 Page 368	<b>9385.0</b>	250 Page 368
KH E 10.0/15	MC ESS 15	KH E 25.0/15	MC ESS 15	KH E 70.0/15	MC ESS 15
<b>9376.0</b>	500 Page 368	<b>9381.0</b>	500 Page 368	<b>9386.0</b>	250 Page 368
KH E 10.0/18	MC ESS 18	KH E 25.0/18	MC ESS 18	KH E 10.0/18	MC ESS 18
<b>9377.0</b>	500 Page 368	<b>9382.0</b>	500 Page 368	<b>9387.0</b>	250 Page 368
KH E 10.0/21	MC ESS 20	KH E 25.0/21	MC ESS 20	KH E 70.0/21	MC ESS 20
<b>9378.0</b>	500 Page 369	<b>9383.0</b>	500 Page 369	<b>9388.0</b>	250 Page 369
KH E 10.0/30	MC ESS 30	KH E 25.0/30	MC ESS 30	KH E 70.0/30	MC ESS 30
<b>9379.0</b>	500 Page 369	<b>9384.0</b>	500 Page 369	<b>9389.0</b>	250 Page 369

Transparent      Transparent      Transparent

12|15|18|21|30      12|15|18|21|30      12|15|18|21|30

PVC, halogen-free  
-40°C to +90°C  
V0

Alkaline substances, alcohol, and various cleaning agents

MC ESS series

4.0 - 10.0  
4.3 - 6.3      10.0 - 25.0  
6.0 - 10.0      25.0 - 70.0  
9.0 - 15.0

## Wire and terminal markers – Cable marker sleeves KBH

### Wire marking KBH 3/3 | KH 3/6

**KBH** cable marker sleeves provide a safe, quick and simple marking solution.

Safe and adjustable, for unconnected cables. Perfect for use with wire cross-sections of 0.2 to 1.5 mm<sup>2</sup>. Available in 3 mm and 6 mm lengths. Easy to read with high-contrast typeface. Torsion resistant for reliable marking combinations. Resistant to environmental influences. Material: Soft PVC, with no cadmium or silicone. Halogen-free markers (**KBHZ**) are available on request.



### KBH 3



### KBH 3



Type		Qty.
Type/Colour bag	KBH 3/3 blank YE	200
<b>Cat. no.</b>	<b>2631.0104</b>	
Type/Colour roll	KBH 3/3 blank YE	1000
<b>Cat. no.</b>	<b>2142.0104</b>	

Colours available

Characteristics

Dimensions  
Length KBH 3/3 | KBH 3/6 (mm) 3 | 6

Material

Material Soft PVC, no cadmium or silicone,  
Temperature range Dimensionally stable between -30 °C and +60 °C  
Flamm. class acc. to UL 94 V0  
Resistance Oils, benzene, gamma and UV radiation

Inscription

Printing process Hot stamped  
Marker pen BS-1

Application

Wire cross-section, mm<sup>2</sup> 0.2 - 1.5  
Outer diameter of insulation in mm 1.3 - 3

Accessories

Installation tool MD 3  
**Cat. no.** 2650.0 Qty. 1

Installation tool MD



KBH 3/3 yellow	Cat. no.	KBH 3/3 yellow	Cat. no.
Inscription	Bag with 200 pcs	Inscription	Bag with 200 pcs
0	2630.0000	+	2630.0419
1	2630.0001	-	2630.0420
2	2630.0002	/	2630.0402
3	2630.0003	.	2630.0403
4	2630.0004	:	2630.0404
5	2630.0005	=	2630.0405
6	2630.0006	±	2630.0406
7	2630.0007	⊕	2630.0407
8	2630.0008	~	2630.0408
9	2630.0009	+ *1	2630.0400
		- *2	2630.0401
A	2630.0200	a	2630.0300
B	2630.0201	b	2630.0301
C	2630.0202	c	2630.0302
D	2630.0203	d	2630.0303
E	2630.0204	e	2630.0304
F	2630.0205	f	2630.0305
G	2630.0206	g	2630.0306
H	2630.0207	h	2630.0307
I	2630.0208	i	2630.0308
J	2630.0209	j	2630.0309
K	2630.0210	k	2630.0310
L	2630.0211	l	2630.0311
M	2630.0212	m	2630.0312
N	2630.0213	n	2630.0313
O	2630.0214	o	2630.0314
P	2630.0215	p	2630.0315
Q	2630.0216	q	2630.0316
R	2630.0217	r	2630.0317
S	2630.0218	s	2630.0318
T	2630.0219	t	2630.0319
U	2630.0220	u	2630.0320
V	2630.0221	v	2630.0321
W	2630.0222	w	2630.0322
X	2630.0223	x	2630.0323
Y	2630.0224	y	2630.0324
Z	2630.0225	z	2630.0325

KBH 3/3 Colour of ferrule	Cat. no.	KBH 3/3 Ferrule colour Inscription	Cat. no.
Bag with 200 pcs		Bag with 200 pcs	
black	2631.0100	black/0	2597.0000
brown	2631.0101	brown/1	2597.0001
red	2631.0102	red/2	2597.0002
orange	2631.0103	orange/3	2597.0003
yellow	2631.0104	yellow/4	2597.0004
green	2631.0105	green/5	2597.0005
blue	2631.0106	blue/6	2597.0006
violet	2631.0107	magenta/7	2597.0007
grey	2631.0108	grey/8	2597.0008
white	2631.0109	white/9	2597.0009

KBH 3/6 Colour of ferrule	Cat. no.
Bag with 200 pcs	
L1	2678.0409
L2	2678.0410
L3	2678.0411
MP*2	2678.0412
PE	2678.0413
X1	2678.0414
X2	2678.0415
X3	2678.0416
A1	2678.0417
A2	2678.0418

KBH 3/3 yellow	Cat. no.	KBH 3/3 yellow	Cat. no.
Inscription	Roll with 1000 pcs	Inscription	Roll with 1000 pcs
0	2156.0000	+	2156.0419
1	2156.0001	-	2156.0420
2	2156.0002	/	2156.0402
3	2156.0003	.	2156.0403
4	2156.0004	:	2156.0404
5	2156.0005	=	2156.0405
6	2156.0006	±	2156.0406
7	2156.0007	⊕	2156.0407
8	2156.0008	~	2156.0408
9	2156.0009	+ *1	2156.0400
		- *2	2156.0401
A	2156.0200	a	2156.0300
B	2156.0201	b	2156.0301
C	2156.0202	c	2156.0302
D	2156.0203	d	2156.0303
E	2156.0204	e	2156.0304
F	2156.0205	f	2156.0305
G	2156.0206	g	2156.0306
H	2156.0207	h	2156.0307
I	2156.0208	i	2156.0308
J	2156.0209	j	2156.0309
K	2156.0210	k	2156.0310
L	2156.0211	l	2156.0311
M	2156.0212	m	2156.0312
N	2156.0213	n	2156.0313
O	2156.0214	o	2156.0314
P	2156.0215	p	2156.0315
Q	2156.0216	q	2156.0316
R	2156.0217	r	2156.0317
S	2156.0218	s	2156.0318
T	2156.0219	t	2156.0319
U	2156.0220	u	2156.0320
V	2156.0221	v	2156.0321
W	2156.0222	w	2156.0322
X	2156.0223	x	2156.0323
Y	2156.0224	y	2156.0324
Z	2156.0225	z	2156.0325

KBH 3/3 Colour of ferrule	Cat. no.
Roll with 1000 pcs	
black	2142.0100
brown	2142.0101
red	2142.0102
orange	2142.0103
yellow	2142.0104
green	2142.0105
blue	2142.0106
violet	2142.0107
grey	2142.0108
white	2142.0109

KBH 3/6 Colour of ferrule	Cat. no.
Roll with 1000 pcs	
L1	2675.0409
L2	2675.0410
L3	2675.0411
MP*2	2675.0412
PE	2675.0413
X1	2675.0414
X2	2675.0415
X3	2675.0416
A1	2675.0417
A2	2675.0418

More accessories starting on page 264.

\*1: red ferrules  
\*2: blue ferrules

# Wire and terminal markers – Cable marker sleeves KBH

## Wire marking KBH 5/3 | KH 5/6

**KBH** cable marker sleeves provide a safe, quick and simple marking solution. Safe and adjustable, for unconnected cables. Perfect for use with wire cross-sections of 1.5 mm<sup>2</sup> to 4 mm<sup>2</sup>. Available in 3 mm and 6 mm lengths. Easy to read with high-contrast typeface. Torsion resistant for reliable marking combinations. Resistant to environmental influences. Material: Soft PVC, with no cadmium or silicone. Halogen-free markers (**KBHZ**) are available on request.



## KBH 5



## KBH 5



Type	Qty.
Type/Colour bag	200
Cat. no.	2633.0104
Type/Colour roll	1000
Cat. no.	2146.0104

Colours available

Characteristics

Dimensions  
Length KBH 5/3 | KBH 5/6 (mm) 3 | 6

Material  
Material Soft PVC, no cadmium or silicone,  
Temperature range Dimensionally stable between -30 °C and +60 °C  
Flamm. class acc. to UL 94 V0  
Resistance Oils, benzene, gamma and UV radiation

Inscription  
Printing process Hot stamped  
Marker pen BS-1

Application  
Wire cross-section, mm<sup>2</sup> 1,5 - 4  
Outer diameter of insulation in mm 2,5 - 5

Accessories	Qty.
Installation tool MD 4	1
Cat. no. 2651.0	
Installation tool MD 5	1
Cat. no. 2652.0	

## Installation tool MD



KBH 5/3 yellow	Cat. no.	KBH 5/3 yellow	Cat. no.
Inscription	Bag with 200 pcs	Inscription	Bag with 200 pcs
0	2632.0000	+	2632.0419
1	2632.0001	-	2632.0420
2	2632.0002	/	2632.0402
3	2632.0003	.	2632.0403
4	2632.0004	:	2632.0404
5	2632.0005	=	2632.0405
6	2632.0006	±	2632.0406
7	2632.0007	⊕	2632.0407
8	2632.0008	~	2632.0408
9	2632.0009	+ *1	2632.0400
		- *2	2632.0401
A	2632.0200	a	2632.0300
B	2632.0201	b	2632.0301
C	2632.0202	c	2632.0302
D	2632.0203	d	2632.0303
E	2632.0204	e	2632.0304
F	2632.0205	f	2632.0305
G	2632.0206	g	2632.0306
H	2632.0207	h	2632.0307
I	2632.0208	i	2632.0308
J	2632.0209	j	2632.0309
K	2632.0210	k	2632.0310
L	2632.0211	l	2632.0311
M	2632.0212	m	2632.0312
N	2632.0213	n	2632.0313
O	2632.0214	o	2632.0314
P	2632.0215	p	2632.0315
Q	2632.0216	q	2632.0316
R	2632.0217	r	2632.0317
S	2632.0218	s	2632.0318
T	2632.0219	t	2632.0319
U	2632.0220	u	2632.0320
V	2632.0221	v	2632.0321
W	2632.0222	w	2632.0322
X	2632.0223	x	2632.0323
Y	2632.0224	y	2632.0324
Z	2632.0225	z	2632.0325

KBH 5/3 yellow	Cat. no.	KBH 5/3 yellow	Cat. no.
Inscription	Roll with 1000 pcs	Inscription	Roll with 1000 pcs
0	2160.0000	+	2160.0419
1	2160.0001	-	2160.0420
2	2160.0002	/	2160.0402
3	2160.0003	.	2160.0403
4	2160.0004	:	2160.0404
5	2160.0005	=	2160.0405
6	2160.0006	±	2160.0406
7	2160.0007	⊕	2160.0407
8	2160.0008	~	2160.0408
9	2160.0009	+ *1	2160.0400
		- *2	2160.0401
A	2160.0200	a	2160.0300
B	2160.0201	b	2160.0301
C	2160.0202	c	2160.0302
D	2160.0203	d	2160.0303
E	2160.0204	e	2160.0304
F	2160.0205	f	2160.0305
G	2160.0206	g	2160.0306
H	2160.0207	h	2160.0307
I	2160.0208	i	2160.0308
J	2160.0209	j	2160.0309
K	2160.0210	k	2160.0310
L	2160.0211	l	2160.0311
M	2160.0212	m	2160.0312
N	2160.0213	n	2160.0313
O	2160.0214	o	2160.0314
P	2160.0215	p	2160.0315
Q	2160.0216	q	2160.0316
R	2160.0217	r	2160.0317
S	2160.0218	s	2160.0318
T	2160.0219	t	2160.0319
U	2160.0220	u	2160.0320
V	2160.0221	v	2160.0321
W	2160.0222	w	2160.0322
X	2160.0223	x	2160.0323
Y	2160.0224	y	2160.0324
Z	2160.0225	z	2160.0325

KBH 5/3 yellow	Cat. no.	KBH 5/3 Ferrule colour	Cat. no.
Inscription	Bag with 200 pcs	Inscription	Bag of 200
black	2633.0100	black/0	2596.0000
brown	2633.0101	brown/1	2596.0001
red	2633.0102	red/2	2596.0002
orange	2633.0103	orange/3	2596.0003
yellow	2633.0104	yellow/4	2596.0004
green	2633.0105	green/5	2596.0005
blue	2633.0106	blue/6	2596.0006
violet	2633.0107	magenta/7	2596.0007
grey	2633.0108	grey/8	2596.0008
white	2633.0109	white/9	2596.0009

KBH 5/3 Colour of ferrule	Cat. no.	Roll with 1000 pcs
black	2146.0100	
brown	2146.0101	
red	2146.0102	
orange	2146.0103	
yellow	2146.0104	
green	2146.0105	
blue	2146.0106	
violet	2146.0107	
grey	2146.0108	
white	2146.0109	

KBH 5/6 Colour of ferrule	at. no.	Roll with 200 pcs
L1	2681.0409	
L2	2681.0410	
L3	2681.0411	
MP*2	2681.0412	
PE	2681.0413	
X1	2681.0414	
X2	2681.0415	
X3	2681.0416	
A1	2681.0417	
A2	2681.0418	

KBH 5/6 Colour of ferrule	Cat. no.	Roll with 1000 pcs
L1	2634.0409	
L2	2634.0410	
L3	2634.0411	
MP*2	2634.0412	
PE	2634.0413	
X1	2634.0414	
X2	2634.0415	
X3	2634.0416	
A1	2634.0417	
A2	2634.0418	

More accessories starting on page 264.

\*1: red ferrules  
\*2: blue ferrules

Wire and terminal markers – Cable marker sleeves KBH

Wire marking KBH 10/4 | KBH 10/6

**KBH** cable marker sleeves provide a safe, quick and simple marking solution. Safe and adjustable, for unconnected cables. Perfect for use with wire cross-sections of 2,5 to 16 mm<sup>2</sup>. Available in 4 mm and 6 mm lengths. Easy to read with high-contrast typeface. Torsion resistant for reliable marking combinations. Resistant to environmental influences. Material: Soft PVC, with no cadmium or silicone. Halogen-free markers (**KBHZ**) are available on request.



Type	Qty.
Type/Colour bag	
<b>Cat. no.</b>	
Type/Colour roll	
<b>Cat. no.</b>	

KBH 10/4 blank YE	100
<b>2638.0104</b>	
KBH 10/4 blank YE	250
<b>2148.0104</b>	

Colours available

Characteristics

Dimensions

Length KBH 10/4 | KBH 10/6 (mm)

4 | 6

Material

Material	Soft PVC, no cadmium or silicone,
Temperature range	Dimensionally stable between -30 °C and +60 °C
Flamm. class acc. to UL 94	V0
Resistance	Oils, benzene, gamma and UV radiation

Inscription

Printing process	Hot stamped
Marker pen	BS-1

Application

Wire cross-section, mm <sup>2</sup>	2.5 - 16
Outer diameter of insulation in mm	4 - 10

KBH 10/4 Yellow Inscription	Cat. no. Bag with 100 pcs	KBH 10/4 Yellow Inscription	Cat. no. Bag with 100 pcs
0	2637.0000	+	2637.0419
1	2637.0001	-	2637.0420
2	2637.0002	/	2637.0402
3	2637.0003	.	2637.0403
4	2637.0004	:	2637.0404
5	2637.0005	=	2637.0405
6	2637.0006	±	2637.0406
7	2637.0007	⊕	2637.0407
8	2637.0008	~	2637.0408
9	2637.0009	+ *1	2637.0400
		- *2	2637.0401

A	2637.0200	a	2637.0300
B	2637.0201	b	2637.0301
C	2637.0202	c	2637.0302
D	2637.0203	d	2637.0303
E	2637.0204	e	2637.0304
F	2637.0205	f	2637.0305
G	2637.0206	g	2637.0306
H	2637.0207	h	2637.0307
I	2637.0208	i	2637.0308
J	2637.0209	j	2637.0309
K	2637.0210	k	2637.0310
L	2637.0211	l	2637.0311
M	2637.0212	m	2637.0312
N	2637.0213	n	2637.0313
O	2637.0214	o	2637.0314
P	2637.0215	p	2637.0315
Q	2637.0216	q	2637.0316
R	2637.0217	r	2637.0317
S	2637.0218	s	2637.0318
T	2637.0219	t	2637.0319
U	2637.0220	u	2637.0320
V	2637.0221	v	2637.0321
W	2637.0222	w	2637.0322
X	2637.0223	x	2637.0323
Y	2637.0224	y	2637.0324
Z	2637.0225	z	2637.0325

KBH 10/4 yellow Inscription	Cat. no. Roll à 250	KBH 10/4 yellow Inscription	Cat. no. Roll at 250 pcs
0	2162.0000	+	2162.0419
1	2162.0001	-	2162.0420
2	2162.0002	/	2162.0402
3	2162.0003	.	2162.0403
4	2162.0004	:	2162.0404
5	2162.0005	=	2162.0405
6	2162.0006	±	2162.0406
7	2162.0007	⊕	2162.0407
8	2162.0008	~	2162.0408
9	2162.0009	+ *1	2162.0400
		- *2	2162.0401

A	2162.0200	a	2162.0300
B	2162.0201	b	2162.0301
C	2162.0202	c	2162.0302
D	2162.0203	d	2162.0303
E	2162.0204	e	2162.0304
F	2162.0205	f	2162.0305
G	2162.0206	g	2162.0306
H	2162.0207	h	2162.0307
I	2162.0208	i	2162.0308
J	2162.0209	j	2162.0309
K	2162.0210	k	2162.0310
L	2162.0211	l	2162.0311
M	2162.0212	m	2162.0312
N	2162.0213	n	2162.0313
O	2162.0214	o	2162.0314
P	2162.0215	p	2162.0315
Q	2162.0216	q	2162.0316
R	2162.0217	r	2162.0317
S	2162.0218	s	2162.0318
T	2162.0219	t	2162.0319
U	2162.0220	u	2162.0320
V	2162.0221	v	2162.0321
W	2162.0222	w	2162.0322
X	2162.0223	x	2162.0323
Y	2162.0224	y	2162.0324
Z	2162.0225	z	2162.0325

KBH 10/4 Colour of ferrule	Cat. no. Bag with 100 pcs	KBH 10/4 Ferrule colour Inscription	Cat. no. Bag with 100 pcs
black	2638.0100	black/0	2589.0000
brown	2638.0101	brown/1	2589.0001
red	2638.0102	red/2	2589.0002
orange	2638.0103	orange/3	2589.0003
yellow	2638.0104	yellow/4	2589.0004
green	2638.0105	green/5	2589.0005
blue	2638.0106	blue/6	2589.0006
violet	2638.0107	magenta/7	2589.0007
grey	2638.0108	grey/8	2589.0008
white	2638.0109	white/9	2589.0009

KBH 10/4 Colour of ferrule	Cat. no. Roll with 250 pcs	KBH 10/6 Ferrule colour	Cat. no. Roll with 125 pcs
black	2148.0100	L1	2695.0409
brown	2148.0101	L2	2695.0410
red	2148.0102	L3	2695.0411
orange	2148.0103	MP*2	2695.0412
yellow	2148.0104	PE	2695.0413
green	2148.0105	X1	2695.0414
blue	2148.0106	X2	2695.0415
violet	2148.0107	X3	2695.0416
grey	2148.0108	A1	2695.0417
white	2148.0109	A2	2695.0418



**Wire and terminal markers – Cable marker sleeves KBH**

**Cable marker sleeve KBH**

KBH cable marker sleeves provide a safe, quick and simple marking solution. Safe and adjustable, for unconnected cables.

Perfect for use with wire cross-sections of 2.5 to 16 mm<sup>2</sup>.

- Available in lengths of 15 mm, 21 mm, 27 mm and 36 mm.
- Easy to read with high-contrast typeface.
- Torsion resistant for reliable marking combinations.

Resistant to environmental influences.

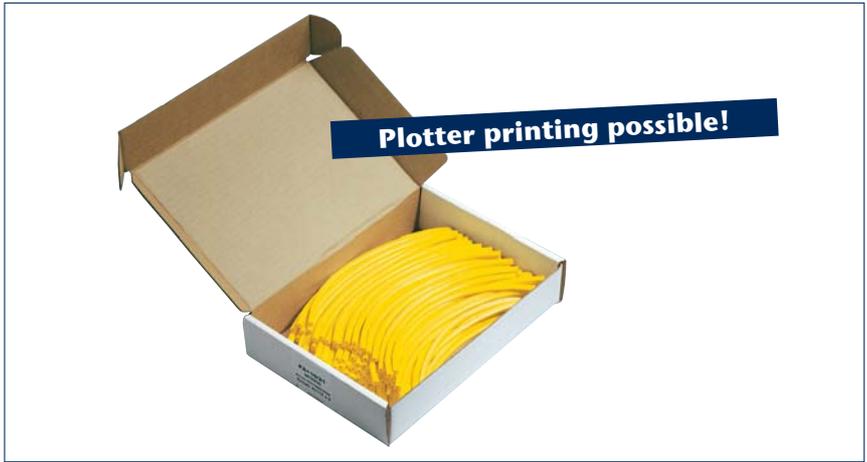
Material: Soft PVC, with no cadmium or silicone.



**KBH 3/15 strip**

**KBH 3/21 strip**

**KBH 3/27 strip**



Type	Qty.	Qty.	Qty.			
Type/colour Cat. no.	KBH 3/15 blank YE strip <b>2627.0</b>	1008	KBH 3/21 blank YE strip <b>2661.0</b>	1008	KBH 3/27 blank YE strip <b>2629.0</b>	1001
Type/colour Cat. no.	KBH 3/15 blank WH strip <b>2628.0</b>	1008	KBH 3/21 blank WH strip <b>2662.0</b>	1008	KBH 3/27 blank WH strip <b>2663.0</b>	1001

Colours available

8 7

8 7

8 7

**Characteristics**

**Dimensions**

Length, mm	15	21	27
Number of ferrules per strip	12	9	7
Number of strips per pack	84	112	143

**Material**

Material	Soft PVC, no cadmium or silicone	Soft PVC, no cadmium or silicone	Soft PVC, no cadmium or silicone
Temperature range	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Flamm. class acc. to UL 94	V0	V0	V0
Resistance	Oils, benzene, gamma and UV radiation	Oils, benzene, gamma and UV radiation	Oils, benzene, gamma and UV radiation

**Inscription**

Plotter	EMS	EMS	EMS
Plotter inlay	CCI-17	CCI-17	CCI-17
Marker pen	BS-1	BS-1	BS-1

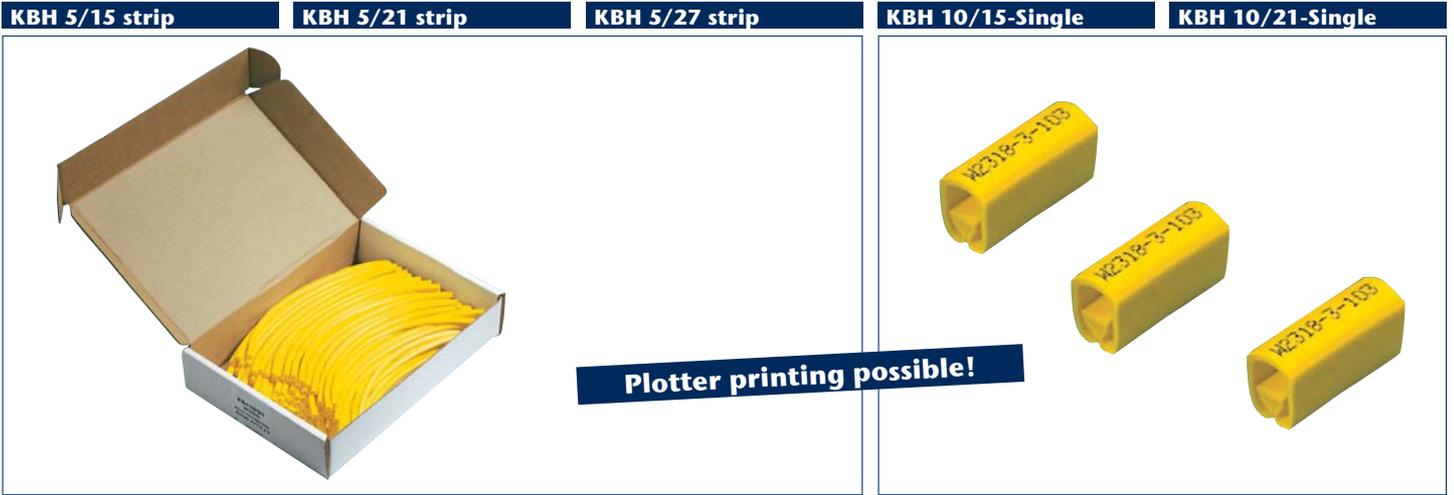
**Application**

Cross-section, mm <sup>2</sup>	0.2-1.5	0.2-1.5	0.2-1.5
Outer diameter of insulation, mm	1.3-3	1.3-3	1.3-3

**Accessories**

	Page	Qty.	Page	Qty.	Page	Qty.			
Installation tool Cat. no.	MD 3 <b>2650.0</b>	-	1	MD 3 <b>2650.0</b>	-	1	MD 3 <b>2650.0</b>	-	1

**Additional accessories**



Qty.		Qty.		Qty.		Qty.		Qty.	
KBH 5/15 blank YE strip	1008	KBH 5/21 blank YE strip	1008	KBH 5/27 blank YE strip	910	KBH 10/15 blank YE single	100	KBH 10/21 blank YE single	100
<b>2664.0</b>		<b>2673.0</b>		<b>2684.0</b>		<b>2590.0</b>		<b>2592.0</b>	
KBH 5/15 blank WH strip	1008	KBH 5/21 blank WH strip	1008	KBH 5/27 blank WH strip	910	KBH 10/15 blank WH single	100	KBH 10/21 blank WH single	100
<b>2665.0</b>		<b>2674.0</b>		<b>2685.0</b>		<b>2656.0</b>		<b>2657.0</b>	

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8 7		8 7		8 7		8 7		8 7	
15		21		27		15		21	
12		9		7		-		-	
84		112		130		-		-	
Soft PVC, no cadmium or silicone		Soft PVC, no cadmium or silicone		Soft PVC, no cadmium or silicone		Soft PVC, no cadmium or silicone		Soft PVC, no cadmium or silicone	
-30°C to +60°C		-30°C to +60°C		-30°C to +60°C		-30°C to +60°C		-30°C to +60°C	
V0		V0		V0		V0		V0	
Oils, benzene, gamma and UV radiation		Oils, benzene, gamma and UV radiation		Oils, benzene, gamma and UV radiation		Oils, benzene, gamma and UV radiation		Oils, benzene, gamma and UV radiation	

EMS									
CCI-18		CCI-18		CCI-18		CCI-19		CCI-19	
BS-1		BS-1		BS-1		BS-1		BS-1	

1,5-4		1,5-4		1,5-4		2,5-16		2,5-16	
2,5-5		2,5-5		2,5-5		4-10		4-10	

Page Qty.		Page Qty.		Page Qty.		Page Qty.		Page Qty.	
MD 4		MD 4		MD 4					
<b>2651.0</b>	- 1	<b>2651.0</b>	- 1	<b>2651.0</b>	- 1				
MD 5		MD 5		MD 5					
<b>2652.0</b>	- 1	<b>2652.0</b>	- 1	<b>2652.0</b>	- 1				


Wire and terminal markers – Cable marker sleeves KBH

Cable marker sleeve KBH

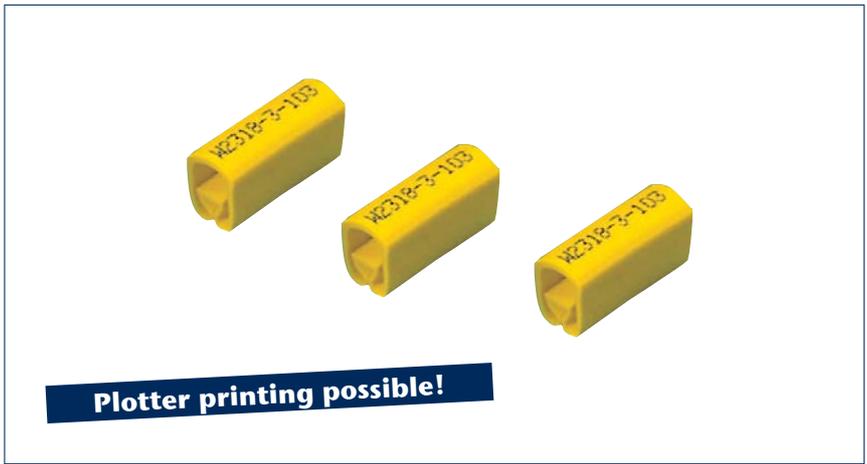
KBH cable marker sleeves provide a safe, quick and simple marking solution. Safe and adjustable, for unconnected cables. Perfect for use with wire cross-sections of 2.5 to 16 mm<sup>2</sup>. Available in lengths of 15 mm, 21 mm, 27 mm and 36 mm. Easy to read with high-contrast typeface. Torsion resistant for reliable marking combinations. Resistant to environmental influences.

Material: Soft PVC, with no cadmium or silicone.



KBH 10/27-Single

KBH 10/36-Single



Type	Qty.	Qty.
Type/colour	KBH 10/27 blank YE single	KBH 10/36 blank YE single
Cat. no.	2593.0 100	2594.0 100
Type/colour	KBH 10/27 blank WH single	KBH 10/36 blank WH single
Cat. no.	3435.0 100	2659.0 100

Colours available	8 7	8 7
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Characteristics

Dimensions

Length, mm	27	36
Number of ferrules per strip	-	-
Number of strips per pack	-	-

Material

Material	Soft PVC, no cadmium or silicone	Soft PVC, no cadmium or silicone
Temperature range	-30°C to +60°C	-30°C to +60°C
Flamm. class acc. to UL 94	V0	V0
Resistance	Oils, benzene, gamma and UV radiation	Oils, benzene, gamma and UV radiation

Inscription

Plotter	EMS	EMS
Plotter inlay	CCI-19	CCI-19
Marker pen	BS-1	BS-1

Application

Cross-section, mm <sup>2</sup>	2.5-16	2.5-16
Outer diameter of insulation, mm	4-10	4-10

Accessories

Installation tool	Page Qty.	Page Qty.
Cat. no.		

Additional accessories

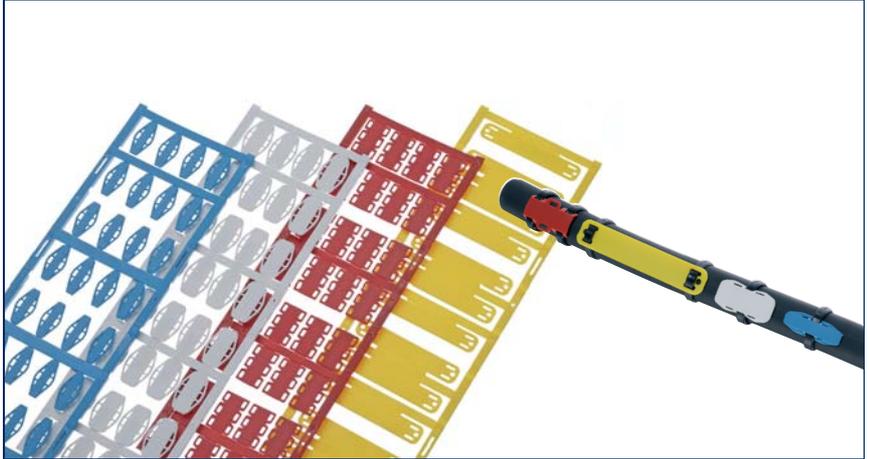
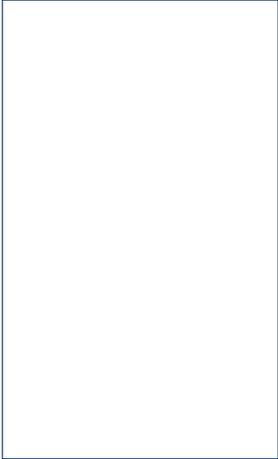
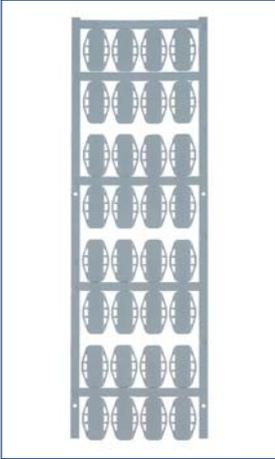








**MC KMS 15 /24**



**Qty.**

MC KMS 15/24 WH  
**3302.7** 160  
 MC KMS 15/24 So WH  
**3360.7** 160

5 7 8 9

15x24  
 4  
 32

PA6.6, halogen-free  
 -40°C to +105°C  
 V2

EMS  
 CCI-10  
 BS-1  
 18|4  
 6|5

≥ 16  
 1  
 3.6

**Page Qty.**  
 KB 140 BK  
**2672.0** 390 1000

Wire and cable markers – Cable tie KB | Cable marker KKM

**Cable tie KB | Cable marker KKM**

KB and KKM cable markers provide you with a way to label your cables quickly and simply.

**KB:**

The cable ties come with an integrated cable marker. The **BS-1** marker pen can be used for labelling as can the **GKE** labels which can be printed on with a thermal-transfer printer.

Available in two lengths.

Material: Transparent nylon 6.6, halogen-free and silicone-free

**KKM:**

The **KKM** cable markers are mainly used indoors. They are attached to the cable using cable ties. They can be labelled with **GKE** labels or **MC GST** Maxicards.

They are available in two sizes. Material:

Polypropylene/nylon 6.6, transparent, halogen-free and silicone-free.

Type	KB 100	KB 200	KB 200
Type/colour	KB 100 BF 25x8	KB 200 BF 25x8	KB 200 BF 28.5 x 13
Cat. no.	<b>3189.0</b>	<b>3190.0</b>	<b>3191.0</b>
	Qty. 100	Qty. 100	Qty. 100

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Colours available	Transparent	Transparent	Transparent
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<b>Characteristics</b>			
------------------------	--	--	--

<b>Dimensions</b>			
-------------------	--	--	--

Length x width, mm	100 x 2.5	200 x 2.5	200 x 4.6
--------------------	-----------	-----------	-----------

Length x width of label field	8 x 25	8 x 25	28.5 x 13
-------------------------------	--------	--------	-----------

<b>Material</b>			
-----------------	--	--	--

Material	Nylon 6.6, no halogen or silicone	Nylon 6.6, no halogen or silicone	Nylon 6.6, no halogen or silicone
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Temperature range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
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Flamm. class acc. to UL 94			
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<b>Inscription options</b>			
----------------------------	--	--	--

Marker pen	BS-1	BS-1	BS-1
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Labels	GKE	GKE	GKE
--------	-----	-----	-----

Maxicard	-	-	-
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<b>Application</b>			
--------------------	--	--	--

Max. insulation diameter, mm	24	52	46
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Max. number of cable ties	-	-	-
---------------------------	---	---	---

Max. cable tie width, mm	-	-	-
--------------------------	---	---	---

<b>Accessories</b>			
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Labels GKE YE	GKE 20/8 YE	1 roll of 10000	GKE 20/8 YE	1 roll of 10000	GKE 25/12 YE	1 roll of 10000
---------------	-------------	-----------------	-------------	-----------------	--------------	-----------------

Cat. no.	<b>3903.8</b>	404 pieces	<b>3903.8</b>	404 pieces	<b>3904.8</b>	404 pieces
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Labels GKE silver	GKE 20/8 SI	1 roll of 10000	GKE 20/8 SI	1 roll of 10000	GKE 25/12 SI	1 roll of 10000
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Cat. no.	<b>3903.0</b>	404 pieces	<b>3903.0</b>	404 pieces	<b>3904.0</b>	404 pieces
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Labels GKE WH	GKE 20/8 WH	1 roll of 10000	GKE 20/8 WH	1 roll of 10000	GKE 25/12 WH	1 roll of 10000
---------------	-------------	-----------------	-------------	-----------------	--------------	-----------------

Cat. no.	<b>3903.7</b>	404 pieces	<b>3903.7</b>	404 pieces	<b>3904.7</b>	404 pieces
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Labels GKE YE	GKE 20/8 A4 GE	10 sheets at	GKE 20/8 A4 GE	10 sheets at	GKE 26/10 A4 GE	10 sheets at
---------------	----------------	--------------	----------------	--------------	-----------------	--------------

Cat. no.	<b>3922.8</b>	405 264 pieces	<b>3922.8</b>	405 264 pieces	<b>3924.8</b>	405 156 pieces
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Labels GKE WH	GKE 20/8 A4 WH	10 sheets at	GKE 20/8 A4 WH	10 sheets at	GKE 26/10 A4 WH	10 sheets at
---------------	----------------	--------------	----------------	--------------	-----------------	--------------

Cat. no.	<b>3922.7</b>	405 264 pieces	<b>3922.7</b>	405 264 pieces	<b>3924.7</b>	405 156 pieces
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Maxicard MC						
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Marker pen	BS-1		BS-1		BS-1	
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Cat. no.	<b>2034.0</b>	413 1	<b>2034.0</b>	413 1	<b>2034.0</b>	413 1
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KB cable ties						
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Cat. no.						
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<b>Additional accessories</b>						
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More accessories starting on page 264.



## Wire and terminal markers – Cable marker sleeves KBH-S

### Cable marker sleeve KBH-S

KBH-S cable marker sleeves provide a safe, quick and simple solution for marking a wire.

The KBH-S cable marker sleeves can be printed on using the EMS plotter system.

Perfect for use with wire cross-sections of 70 mm<sup>2</sup> and larger. They can be quickly attached using **KH holders** and cable ties or just with cable ties for stamped ferrules.

- They are available in 21, 25, 36, 40, 57 and 84 mm lengths.
- Easy to read with high-contrast typeface.
- Torsion resistant and captive.

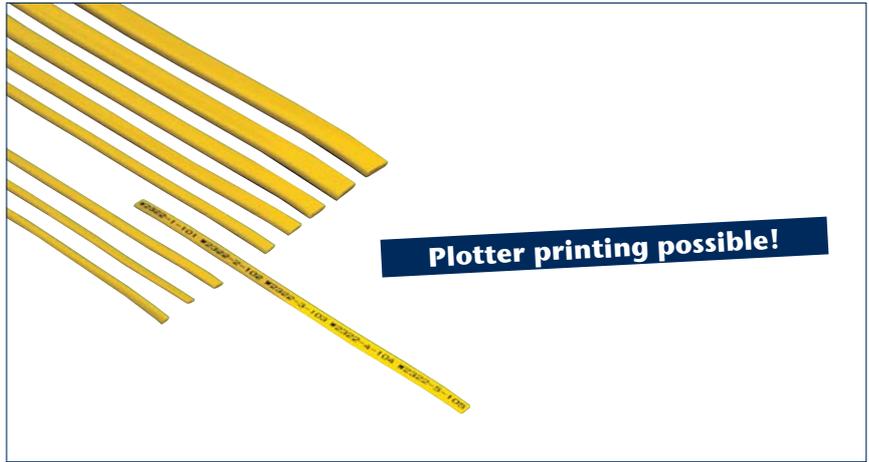
Resistant to environmental influences.  
Material: Soft PVC, no cadmium or silicone



### KBH-S 21 – Strip

### KBH-S 36 – Strip

### KBH-S 57 – Strip



Type	Qty.	Qty.	Qty.
Type/colour			
<b>Cat. no.</b>			
Type/colour			
<b>Cat. no.</b>			

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Colours available	8 7	8 7	8 7
<b>Characteristics</b>			
<b>Dimensions</b>			
Length, mm	21	36	57
Number of ferrules per strip	9	5	3
Number of strips per pack	50	50	50
<b>Material</b>			
Material	Soft PVC, no cadmium or silicone	Soft PVC, no cadmium or silicone	Soft PVC, no cadmium or silicone
Temperature range	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Flamm. class acc. to UL 94	V0	V0	V0
Resistance	Oils, benzene, gamma and UV radiation	Oils, benzene, gamma and UV radiation	Oils, benzene, gamma and UV radiation

Inscription			
Plotter	EMS	EMS	EMS
Plotter inlay	CCI-15	CCI-15	CCI-15
Marker pen	BS-1	BS-1	BS-1
Number of characters  rows, font size 16, plotter pen 0.25: horizontal	12   3	21   3	32   3
Number of characters  rows, font size 16, plotter pen 0.25: vertical	5   6	5   6	5   6

Application			
Cross-section, mm <sup>2</sup>	≥70	≥70	≥70
Outer diameter of insulation, mm	≥16	≥16	≥16

Accessories	Page Qty.	Page Qty.	Page Qty.
Holder KH			
<b>Cat. no.</b>			
Holder KH			
<b>Cat. no.</b>			
KB cable ties			
<b>Cat. no.</b>			

Holder KH			

Additional accessories			

More accessories starting on page 264.



## Wire and cable markers – Cable marker sleeves KBH-S

**Cable marker sleeve KBH-S**

**KBH-S** cable marker sleeves provide a safe, quick and simple solution for marking wires. Perfect for use with wire cross-sections of 70 mm<sup>2</sup> and larger. Quick attachment with **KH holders** and cable ties.

- Unlimited combination possibilities.
- Easy to read with high-contrast type-face.
- Torsion resistant and captive.
- Resistant to environmental influences.

Material: Soft PVC, with no cadmium or silicone.  
Halogen-free markers (KBHZ-S) are available on request.



Type		Qty.
Type/colour	KBH-S4 blank YE	
<b>Cat. no.</b>	<b>2691.0104</b>	100
Type/colour	KBH-S4 blank YE	
<b>Cat. no.</b>	<b>2671.0104</b>	500

Colours available 8

**Characteristics**

**Dimensions**

Length, mm 4

**Material**

Material Soft PVC, cadmium-free and silicone-free  
Temperature range Dimensionally stable between -30 °C and +60 °C  
Flamm. class acc. to UL 94 V0  
Resistance Oils, benzene, gamma and UV radiation

**Inscription**

Printing process Hot stamped  
Marker pen BS-1

**Application**

Cross-section, mm<sup>2</sup> ≥70  
Outer diameter of insulation, mm ≥16

Accessories		Qty.
Holder KH	KH 70 BK	
<b>Cat. no.</b>	<b>2654.0</b>	100
Holder KH	KH 110 BK	
<b>Cat. no.</b>	<b>2655.0</b>	100
KB cable ties	KB 140 BK	
<b>Cat. no.</b>	<b>2672.0</b>	1000

KBH-S4 yellow Bag	Cat. no.	KBH-S4 yellow Bag	Cat. no.
Inscription	à 100	Inscription	à 100
0	2690.0000	+	2690.0419
1	2690.0001	-	2690.0420
2	2690.0002	/	2690.0402
3	2690.0003	.	2690.0403
4	2690.0004	:	2690.0404
5	2690.0005	=	2690.0405
6	2690.0006	±	2690.0406
7	2690.0007	⊕	2690.0407
8	2690.0008	~	2690.0408
9	2690.0009	+*1	2690.0400
		_*2	2690.0401

A	2690.0200	a	2690.0300
B	2690.0201	b	2690.0301
C	2690.0202	c	2690.0302
D	2690.0203	d	2690.0303
E	2690.0204	e	2690.0304
F	2690.0205	f	2690.0305
G	2690.0206	g	2690.0306
H	2690.0207	h	2690.0307
I	2690.0208	i	2690.0308
J	2690.0209	j	2690.0309
K	2690.0210	k	2690.0310
L	2690.0211	l	2690.0311
M	2690.0212	m	2690.0312
N	2690.0213	n	2690.0313
O	2690.0214	o	2690.0314
P	2690.0215	p	2690.0315
Q	2690.0216	q	2690.0316
R	2690.0217	r	2690.0317
S	2690.0218	s	2690.0318
T	2690.0219	t	2690.0319
U	2690.0220	u	2690.0320
V	2690.0221	v	2690.0321
W	2690.0222	w	2690.0322
X	2690.0223	x	2690.0323
Y	2690.0224	y	2690.0324
Z	2690.0225	z	2690.0325

KBH-S4 yellow Roll	Cat. no.	KBH-S4 yellow Roll	Cat. no.
Inscription	à 500	Inscription	à 500
0	2666.0000	+	2666.0419
1	2666.0001	-	2666.0420
2	2666.0002	/	2666.0402
3	2666.0003	.	2666.0403
4	2666.0004	:	2666.0404
5	2666.0005	=	2666.0405
6	2666.0006	±	2666.0406
7	2666.0007	⊕	2666.0407
8	2666.0008	~	2666.0408
9	2666.0009	+*1	2666.0400
		_*2	2666.0401

A	2666.0200	a	2666.0300
B	2666.0201	b	2666.0301
C	2666.0202	c	2666.0302
D	2666.0203	d	2666.0303
E	2666.0204	e	2666.0304
F	2666.0205	f	2666.0305
G	2666.0206	g	2666.0306
H	2666.0207	h	2666.0307
I	2666.0208	i	2666.0308
J	2666.0209	j	2666.0309
K	2666.0210	k	2666.0310
L	2666.0211	l	2666.0311
M	2666.0212	m	2666.0312
N	2666.0213	n	2666.0313
O	2666.0214	o	2666.0314
P	2666.0215	p	2666.0315
Q	2666.0216	q	2666.0316
R	2666.0217	r	2666.0317
S	2666.0218	s	2666.0318
T	2666.0219	t	2666.0319
U	2666.0220	u	2666.0320
V	2666.0221	v	2666.0321
W	2666.0222	w	2666.0322
X	2666.0223	x	2666.0323
Y	2666.0224	y	2666.0324
Z	2666.0225	z	2666.0325

KBH-S4 Colour of ferrule	Cat. no. Bag	KBH-S4 Ferrule colour	Cat. no. Bag
	à 100	Inscription	à 100
black	2691.0100	black/0	2527.0000
brown	2691.0101	brown/1	2527.0001
red	2691.0102	red/2	2527.0002
orange	2691.0103	orange/3	2527.0003
yellow	2691.0104	yellow/4	2527.0004
green	2691.0105	green/5	2527.0005
blue	2691.0106	blue/6	2527.0006
violet	2691.0107	magenta/7	2527.0007
grey	2691.0108	grey/8	2527.0008
white	2691.0109	white/9	2527.0009

KBH-S4 Colour of ferrule	Cat. no. Roll	KBH-S4 Ferrule colour	Cat. no. Roll
	à 500	Inscription	à 100
black	2671.0100		
brown	2671.0101		
red	2671.0102		
orange	2671.0103		
yellow	2671.0104		
green	2671.0105		
blue	2671.0106		
violet	2671.0107		
grey	2671.0108		
white	2671.0109		

**Additional accessories**

More accessories starting on page 264.

\*1: red ferrules  
\*2: blue ferrules

## Wire and cable markers – Stainless steel marking system MPS

### Stainless steel markers MPS

The **MPS** marking system provides a high-quality method for marking cables, wires, pipes and components that is quick, safe and simple.

- Single and multi-character marking – with high-quality embossing
- Single-character marker: 0-9, A-Z, Ä; Ü; Ö, special characters and symbols
- Very good resistance in saline and damp environments
  - Good corrosion resistance against acids
  - First-class quality controlled

Material: Acid-resistant, stainless steel

### MPS



### MPS H



Type	Qty.	MPS Inscription	Cat. no.	Qty.
Type/colour <b>Cat. no.</b>		MPS blank		
	50	0	2653.0000	50
Type/colour <b>Cat. no.</b>		MPS Assortment box* <sup>1</sup>		
	1	1	2653.0001	50
Type/colour <b>Cat. no.</b>		MPS assortment box* <sup>2</sup>		
	1	2	2653.0002	50
Type/colour <b>Cat. no.</b>				
		3	2653.0003	50
Type/colour <b>Cat. no.</b>				
		4	2653.0004	50
Type/colour <b>Cat. no.</b>				
		5	2653.0005	50
Type/colour <b>Cat. no.</b>				
		6	2653.0006	50
Type/colour <b>Cat. no.</b>				
		7	2653.0007	50
Type/colour <b>Cat. no.</b>				
		8	2653.0008	50
Type/colour <b>Cat. no.</b>				
		9	2653.0009	50
Type/colour <b>Cat. no.</b>				
		A	2653.0200	50
Type/colour <b>Cat. no.</b>				
		B	2653.0201	50
Type/colour <b>Cat. no.</b>				
		C	2653.0202	50
Type/colour <b>Cat. no.</b>				
		D	2653.0203	50
Type/colour <b>Cat. no.</b>				
		E	2653.0204	50
Type/colour <b>Cat. no.</b>				
		F	2653.0205	50
Type/colour <b>Cat. no.</b>				
		G	2653.0206	50
Type/colour <b>Cat. no.</b>				
		H	2653.0207	50
Type/colour <b>Cat. no.</b>				
		I	2653.0208	50
Type/colour <b>Cat. no.</b>				
		J	2653.0209	50
Type/colour <b>Cat. no.</b>				
		K	2653.0210	50
Type/colour <b>Cat. no.</b>				
		L	2653.0211	50
Type/colour <b>Cat. no.</b>				
		M	2653.0212	50
Type/colour <b>Cat. no.</b>				
		N	2653.0213	50
Type/colour <b>Cat. no.</b>				
		O	2653.0214	50
Type/colour <b>Cat. no.</b>				
		P	2653.0215	50
Type/colour <b>Cat. no.</b>				
		Q	2653.0216	50
Type/colour <b>Cat. no.</b>				
		R	2653.0217	50
Type/colour <b>Cat. no.</b>				
		S	2653.0218	50
Type/colour <b>Cat. no.</b>				
		T	2653.0219	50
Type/colour <b>Cat. no.</b>				
		U	2653.0220	50
Type/colour <b>Cat. no.</b>				
		V	2653.0221	50
Type/colour <b>Cat. no.</b>				
		W	2653.0222	50
Type/colour <b>Cat. no.</b>				
		X	2653.0223	50
Type/colour <b>Cat. no.</b>				
		Y	2653.0224	50
Type/colour <b>Cat. no.</b>				
		Z	2653.0225	50
Type/colour <b>Cat. no.</b>				
		Ä	2653.0226	50
Type/colour <b>Cat. no.</b>				
		Ö	2653.0227	50
Type/colour <b>Cat. no.</b>				
		Ü	2653.0228	50
Type/colour <b>Cat. no.</b>				
		)	2653.0401	50
Type/colour <b>Cat. no.</b>		/	2653.0402	50
Type/colour <b>Cat. no.</b>		.	2653.0403	50
Type/colour <b>Cat. no.</b>		:	2653.0404	50
Type/colour <b>Cat. no.</b>		=	2653.0405	50
Type/colour <b>Cat. no.</b>		±	2653.0406	50
Type/colour <b>Cat. no.</b>		⊕	2653.0407	50
Type/colour <b>Cat. no.</b>		~	2653.0408	50
Type/colour <b>Cat. no.</b>		,	2653.0409	50
Type/colour <b>Cat. no.</b>		(	2653.0410	50
Type/colour <b>Cat. no.</b>		+	2653.0419	50
Type/colour <b>Cat. no.</b>		-	2653.0420	50

### Additional accessories

More accessories starting on page 264.

## Wire and cable markers – Stainless steel marking system MPS

### Stainless steel markers MPS

The **MPS** marking system provides a high-quality method for marking cables, wires, pipes and components that is quick, safe and simple.

Customer-specific multi-character marking, single-row embossing with up to 30 characters, or double-row embossing with up to 43 characters per row.

- Very good resistance in saline and damp environments
- Good corrosion resistance against acids
- First-class quality controlled

The **MPS H** is a holder with raised profiles at both ends for fixing steel cable ties.

It is available in five different lengths.

The markers are simply stretched over the holder

The **CTS** stainless steel cable ties can be used outdoors under extremely harsh conditions.

Easy processing is possible with a pliers or the **MPS Tool M**.  
Material: Acid-resistant stainless steel

### MPS customer-specific embossing



Type	Qty.	Qty.	Qty.			
Type/colour <b>Cat. no.</b>	MPS 1x1-8 So <b>2658.008</b>	1	MPS 1x9-13 So <b>2658.013</b>	1	MPS 1x14-19 So <b>2658.019</b>	50
Type/colour <b>Cat. no.</b>	MPS 2x1-11 So <b>2658.011</b>	1	MPS 2x12-18 So <b>2658.018</b>	1	MPS 2x19-27 So <b>2658.027</b>	50

### Characteristics

Length x width, mm	47 x 10.3	65 x 10.3	87 x 10.3
Length MPS H 47 65 87 109 128 x width (mm)			
Length CTS 4,6 127 150 200 360 x width (mm)			
<b>Material</b>			
Material	Acid-resistant stainless steel, in compliance with SIS 2347   SIS 2348, corresponding to AISI 316TI   316 L and DIN 17440	Acid-resistant stainless steel, in compliance with SIS 2347   SIS 2348, corresponding to AISI 316TI   316 L and DIN 17440	Acid-resistant stainless steel, in compliance with SIS 2347   SIS 2348, corresponding to AISI 316TI   316 L and DIN 17440
Temperature range	-80°C to +500°C	-80°C to +500°C	-80°C to +500°C
Resistance	Excellent resistance against heat, cold, corrosion, acids, chemicals and fire	Excellent resistance against heat, cold, corrosion, acids, chemicals and fire	Excellent resistance against heat, cold, corrosion, acids, chemicals and fire

### Inscription

System	Embossing	Embossing	Embossing
No. of rows MPS 1   MPS 2	1   2	1   2	1   2
Max. no. of characters per row MPS 1   MPS 2	8   11	13   18	19   27

### Application

Max. number of cable ties per holder			
Max cable tie width, mm			
Max. no of MPS markers per MPS H 47 holder  65 87 109 128	2	2	2
Bundle Ø CTS 4.6 127 150 200 360 (mm)	4.6	4.6	4.6
Minimum tensile strength, N/mm <sup>2</sup>			

### Accessories

	Page	Qty.	Page	Qty.	Page	Qty.
Cable tie CTS <b>Cat. no.</b>	CTS 4,6/127 <b>3436.0</b>	393	100	CTS 4,6/127 <b>3436.0</b>	393	100
Cable tie CTS <b>Cat. no.</b>	CTS 4,6/150 <b>3437.0</b>	393	100	CTS 4,6/150 <b>3437.0</b>	393	100
Cable tie CTS <b>Cat. no.</b>	CTS 4,6/200 <b>3438.0</b>	393	100	CTS 4,6/200 <b>3438.0</b>	393	100
Cable tie CTS <b>Cat. no.</b>	CTS 4,6/360 <b>3439.0</b>	393	100	CTS 4,6/360 <b>3439.0</b>	393	100
Cable tie tool <b>Cat. no.</b>	MPS Tool M <b>3826.0</b>	425	1	MPS Tool M <b>3826.0</b>	425	1

### Additional accessories

More accessories starting on page 264.



## Cable and wire markers – Adhesive cable labels KKE

### Adhesive cable labels KKE

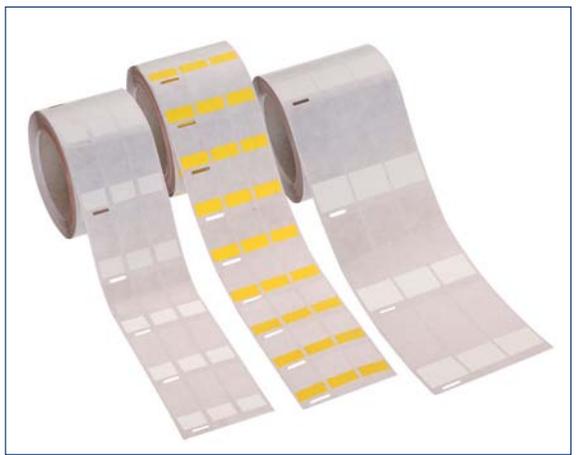
The **KKE** cable markers allow you to mark cables and wire with an outer diameter of up to 32 mm in a safe, easy and quick manner.

- Quick and professional marking with the **TTP** thermal-transfer printer or **EMS** plotter.
- The **BS-1** marker pen provides uncomplicated and quick marking of blank labels

Format: DIN A4 or roll  
Material: Polyester



### KKE roll



Type	Qty.	Type	Cat. no.	Size of label field L x W (mm)	Outer diameter (mm)	Roll of ...pcs.	
<b>Type, roll</b>	<b>KKE...</b>	1	KKB 34/18 WH	<b>3950.7</b>	16 x 13	4,5 - 6	3000
<b>Type, sheet</b>	<b>KKE...A4</b>	10	KKE 34/18 YE	<b>3950.8</b>	16 x 13	4,5 - 6	3000
			KKE 35/25 WH	<b>3955.7</b>	25 x 14	4,5 - 6	4500
			KKE 35/25 YE	<b>3955.8</b>	25 x 14	4,5 - 6	4500
			KKE 55/23 WH	<b>3954.7</b>	21 x 16	6,5 - 11	2400
			KKE 55/23 YE	<b>3954.8</b>	21 x 16	6,5 - 11	2400
			KKE 76/25 WH	<b>3951.7</b>	23 x 19	6,5 - 16	1800
			KKE 76/25 YE	<b>3951.8</b>	23 x 19	6,5 - 16	1800
			KKE 93/36 WH	<b>3952.7</b>	34 x 25	8,5 - 21	1500
			KKE 93/36 YE	<b>3952.8</b>	34 x 25	8,5 - 21	1500
			KKE 140/25 WH	<b>3953.7</b>	24 x 25	12,5 - 32	1050
			KKE 140/25 YE	<b>3953.8</b>	24 x 25	12,5 - 32	1050
Colours available	7 8						
<b>Characteristics</b>							
<b>Dimensions</b>							
Diameter of roll core	75 mm						
Sheet	DIN A4						
<b>Material</b>							
Material	Polyester						
Temperature range	-40°C to +150°C						
Min. temperature when attaching	+10°C						
Resistance	Water, alcohol, benzene, oils						
Min. shelf-life under normal conditions (21°C and 50% rel. humidity)	2 years						
<b>Inscription</b>							
Plotter for KKE..A4	EMS						
Plotter inlay	CCI-8						
Printer for KKE.. Roll	TTP						
Marker pen	BS-1						

## Adhesive cable labels KKE



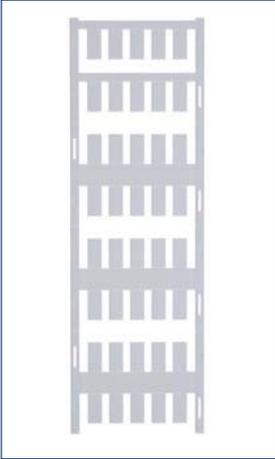
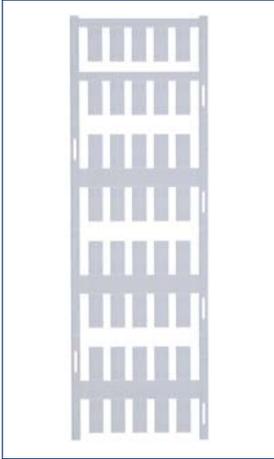
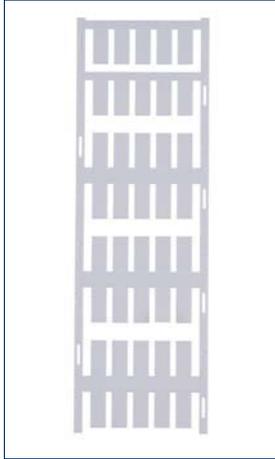
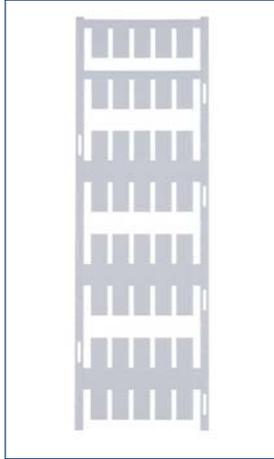
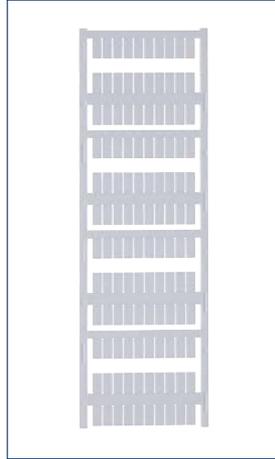
## KKE DIN A4 sheet



Type	Qty.	Type	Cat. no.	Label field size L x W (mm)	Outer diameter (mm)	DIN A4 sheet at ...pieces	
<b>Type, roll</b>	<b>KKE...</b>	1	KKE 25/37 A4 WH	<b>3956.7</b>	8 x 37	3 - 5	55
<b>Type, sheet</b>	<b>KKE...A4</b>	10	KKE 25/37 A4 YE	<b>3956.8</b>	8 x 37	3 - 5	55
			KKE 34/17,8 A4 WH	<b>3957.7</b>	13 x 17.8	5 - 7	88
			KKE 34/17,8 A4 YE	<b>3957.8</b>	13 x 17.8	5 - 7	88
			KKE 55/22,8 A4 WH	<b>3958.7</b>	13 x 22.8	7 - 12	40
			KKE 55/22,8 A4 YE	<b>3958.8</b>	13 x 22.8	7 - 12	40
			KKE 68/25,4 A4 WH	<b>3959.7</b>	17 x 25.4	8 - 14	28
			KKE 68/25,4 A4 YE	<b>3959.8</b>	17 x 25.4	8 - 14	28
			KKE 93/35.5 A4 WH	<b>3960.7</b>	25 x 35.5	10 - 22	15
			KKE 93/35.5 A4 YE	<b>3960.8</b>	25 x 35.5	10 - 22	15
			KKE 139,7/25,4 A4 WH	<b>3961.7</b>	25.4 x 25.4	16 -36	16
			KKE 139,7/25,4 A4 YE	<b>3961.8</b>	25.4 x 25.4	16 -36	16
Colours available	7 8						
<b>Characteristics</b>							
<b>Dimensions</b>							
Diameter of roll core	75 mm						
Sheet	DIN A4						
<b>Material</b>							
Material	Polyester						
Temperature range	-40°C to +150°C						
Min. temperature when attaching	+10°C						
Resistance	Water, alcohol, benzene, oils						
Min. shelf-life under normal conditions (21°C and 50% rel. humidity)	2 years						
<b>Inscription</b>							
Plotter for KKE..A4	EMS						
Plotter inlay	CCI-8						
Printer for KKE.. Roll	TTP						
Marker pen	BS-1						
<b>Additional accessories</b>							

More accessories starting on page 264.



MC GS 8/17	MC GS 8/19	MC GS 9/20	MC GS 9/17	MC GS 6x12
				
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
MC GS 8/17 R WH <b>3320.7</b> 200	MC GS 8/19 R WH <b>3322.7</b> 200	MC GS 9/20 R WH <b>3324.7</b> 200		MC GS 6x12 R WH <b>3884.7</b> 600
MC GS 8/17 R So WH <b>3330.7</b> 200	MC GS 8/19 R So WH <b>3332.7</b> 200	MC GS 9/20 R So WH <b>3334.7</b> 200		MC GS 6x12 R So WH <b>3885.7</b> 600
			MC GS 9/17 K WH <b>3323.7</b> 200	MC GS 6x12 K WH <b>3886.7</b> 600
			MC GS 9/17 K So WH <b>3333.7</b> 200	MC GS 6x12 K So WH <b>3887.7</b> 600
⑦	⑦	⑦	⑦ ⑧	⑦
17 x 8	19 x 8	20 x 9	17 x 9	6 x 12
5	5	5	5	10
40	40	40	40	120
PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2
EMS-2	EMS-2	EMS-2	EMS-2	EMS-2
CCI-10	CCI-10	CCI-10	CCI-10	CCI-10
BS-1	BS-1	BS-1	BS-1	BS-1
14 5	14 4	15 5	11 5	4 5
7 5	6 5	7 5	6 5	9 3
GE (AEG), SYS Pro M, ABB-Stotz /Lumberg	AEG	Siemens, Moeller	Universal self-adhesive (K)	CONTA-CLIP / Finder (only ..R type)
<b>ABB</b> Machinery S 221, S 223, S 281, S 284 Protective switch F271, F172 Switch, button, signal lamp: E 221, E 222, E 223, E 225, E 226, E 227 Power dimmer STD... Power supply NTL5 Power meter RS 232... Installation protection ESb..., EN..., Circuit breaker LE1, LE3, LP1-3, LPUC 1/2, LP1NA, LP3NA Protective switch: F..., FIP..., FIK..., FI-LP..., FIS..., FI transmitter FISG Load switch IS... Overvoltage arrester SA 4... Logic modules Logic and expansion module: LM..., DO...,DX...,		<b>Moeller</b> Protection DILER, DILEM		<b>CONTA-CLIP</b> PCRCU 2... ZPRC 2... <b>Finder</b> 38, 48, 49, 58, 59, 94, 95 series <b>Woertz</b> Terminal blocks
<b>Lumberg</b> Interbus remote bus terminal Profibus-DP... CANopen node CSL... DeviceNet node DSL... AS interface module Ethernet switch EEC... Actuator-sensor distributor ASB				

## Device and installation markers – Maxicard MC GST

### Maxicard MC GST and holder GST-H

The **GST** Maxicard provides a clear, quick and simple solution for marking command and alert devices.

The markers are snapped onto the holders or attached using double sided tape.

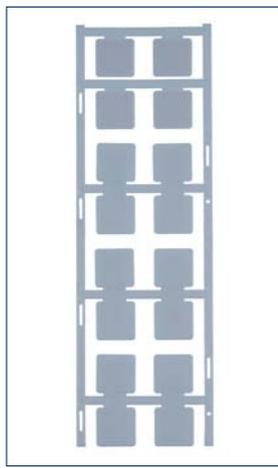
The markers fit on the **GST-H** holder. The holder is available in four sizes and has a 22-mm diameter.

They are available blank or with custom printing. The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

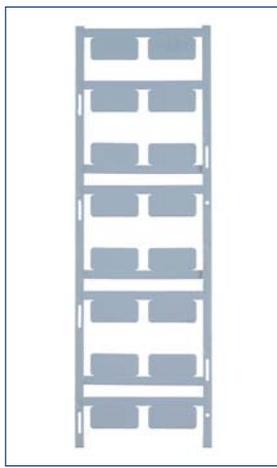
Material: polyamide 6.6 UL 94-V2, halogen-free



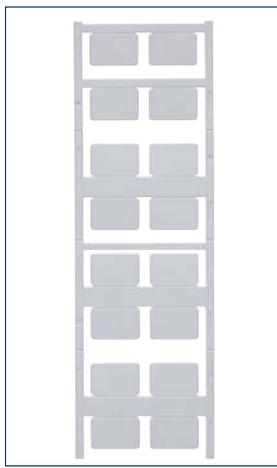
### MC GST 22/22



### MC GST 27/12.5



### MC GST 27/18



Type		Qty.	Qty.	Qty.
Type/colour				
<b>Cat. no.</b>	Snap-on		MC GST 27/12,5 R WH <b>3336.7</b>	MC GST 27/18 R WH <b>3337.7</b>
Type/colour	Special print		MC GST 27/12,5 R So WH <b>3345.7</b>	MC GST 27/18 R So WH <b>3346.7</b>
<b>Cat. no.</b>	Snap-on		MC GST 27/12,5 K WH <b>3341.7</b>	MC GST 27/18 K WH <b>3342.7</b>
Type/colour	self-adhesive	80	MC GST 27/12,5 K So WH <b>3350.7</b>	MC GST 27/18 K So WH <b>3351.7</b>
Type/colour	Special print			
<b>Cat. no.</b>	self-adhesive	80		

Colours available	0 7	0 7	0 7
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Characteristics			
<b>Dimensions</b>			
Length x width, mm	22 x 22	12.5 x 27	18 x 27
Number of markers per row	2	2	2
Number of markers per card	16	16	16
<b>Material</b>			
Material	PA6.6, halogen-free	PA6.6, halogen-free	PA6.6, halogen-free
Temperature range	-40°C to +105°C	-40°C to +105°C	-40°C to +105°C
Flamm. class acc. to UL 94	V2	V2	V2

Inscription			
Plotter	EMS	EMS	EMS
Plotter inlay	CCI-10	CCI-10	CCI-10
Marker pen	BS-1	BS-1	BS-1
Number of characters   lines when using font size 14 and plotter pen 0.25: horizontal	17 5	20 5	20 5
Number of characters   lines when using font size 14 and plotter pen 0.25: vertical	17 5	9 5	13 5
<b>Application</b>			
Attach to MC Gst...R   MC Gst...K	Universal self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)

Manufacturer	Type	Manufacturer	Type
ABB	MA6 -1060	ABB	BSH-B
Siemens	3SB3922-0AY	Moeller	M22-ST-X
		Siemens	3SB3925-0AV

Accessories	Qty.	Qty.	Qty.
Holder GST-H		GST-H 27x12,5 BK <b>9803.4</b>	GST-H 27x18 BK <b>9804.4</b>
<b>Cat. no.</b>		40	40

### Technical data for the Maxicard and GST-H holder

Material	Polyamide 6.6, halogen-free
Flammability class	In accordance with UL 94-V2
Temperature range	-40 to +105°C

### Holder GST-H, for MC GST

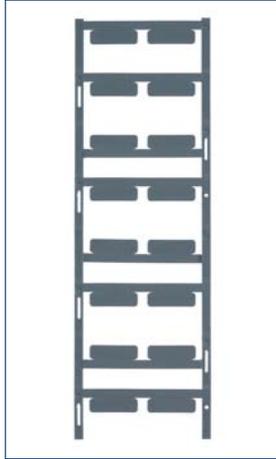
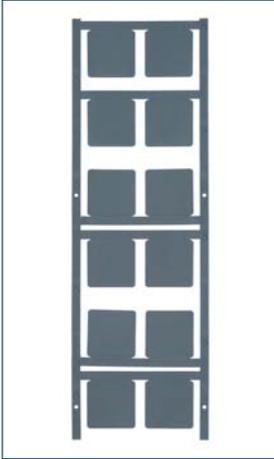


### Application MC GST...K



**MC GST 27/27**

**MC GST 27/8**



	<b>Qty.</b>
MC GST 27/27 R WH <b>3338.7</b>	80
MC GST 27/27 R So WH <b>3347.7</b>	80
MC GST 27/27 K WH <b>3343.7</b>	80
MC GST 27/27 K So WH <b>3352.7</b>	80

	<b>Qty.</b>
MC GST 27/8 R WH <b>3340.7</b>	80
MC GST 27/8 R So WH <b>3348.7</b>	80
MC GST 27/8 K WH <b>3339.7</b>	80
MC GST 27/8 K So WH <b>3349.7</b>	80

0 7

0 7

27 x 27
2
12
PA6.6, halogen-free
-40°C to +105°C
V2

8 x 27
2
16
PA6.6, halogen-free
-40°C to +105°C
V2

EMS
CCI-10
BS-1
20 5
20 5
Snap-on (R)   All-purpose self-adhesive (K)

EMS
CCI-10
BS-1
20 4
6 5
Snap-on (R)   All-purpose self-adhesive (K)

Manufacturer	Type
Grafoplast	SIT OB08
Siemens	3SB1906-2AA
Siemens	3SB1906-2AW

Manufacturer	Type
ABB	BSH-A
Grafoplast	SIT OB09
Murrplastik	BT 22,5
Murrplastik	BT Harmony ZB4

	<b>Qty.</b>
GST-H 27x27 BK <b>9805.4</b>	40

	<b>Qty.</b>
GST-H 27x8 BK <b>9802.4</b>	40

## Device and installation markers – Maxicard MC GSU

The **GSU Maxicard** provides a clear, quick and simple solution for marking devices, components and switchgear cabinets.

The marker is snapped in to the **GSU-H** holder. It is protected from environmental conditions by the **STR MC GSU** protective strips.

It is available in seven sizes, as either snap-on (R) or stick-on (K) variants.

They are available blank or with custom printing. The blank Pocket-Maxicards can easily be printed on using the **EMS** plotter system.

Material: Polyamide 6.6 UL 94-V2, halogen-free



		MC GSU 17x15	MC GSU 17x15	MC GSU 45x15
Type				
Type/colour		MC GSU 17 x 15 R WH	MC GSU 27 x 15 R WH	
<b>Cat. no.</b>	Snap-on	<b>3382.7</b>	<b>3386.7</b>	
Type/colour	Special print	MC GSU 17 x 15 R So WH	MC GSU 27 x 15 R So WH	
<b>Cat. no.</b>	Snap-on	<b>3383.7</b>	<b>3388.7</b>	
Type/colour		MC GSU 17 x 15 K WH	MC GSU 27 x 15 K WH	MC GSU 45 x 15 K WH
<b>Cat. no.</b>	self-adhesive	<b>3384.7</b>	<b>3387.7</b>	<b>3398.7</b>
Type/colour	Special print	MC GSU 17 x 15 K So WH	MC GSU 27 x 15 K So WH	MC GSU 45 x 15 K So WH
<b>Cat. no.</b>	self-adhesive	<b>3385.7</b>	<b>3389.7</b>	<b>3399.7</b>

Colours available	⑦ ⑧	⑦ ⑧	⑦ ⑧
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Characteristics			
<b>Dimensions</b>			
Length x width, mm	17 x 15	27 x 15	45 x 15
Number of markers per row	2	2	1
Number of markers per card	16	16	8
<b>Material</b>			
Material	PA6.6, halogen-free	PA6.6, halogen-free	PA6.6, halogen-free
Temperature range	-40°C to +105°C	-40°C to +105°C	-40°C to +105°C
Flamm. class acc. to UL 94	V2	V2	V2

Inscription			
Plotter	EMS	EMS	EMS
Plotter inlay	CCI-10	CCI-10	CCI-10
Marker pen	BS-1	BS-1	BS-1
Number of characters   lines when using font size 14 and plotter pen 0.25: horizontal	12 5	20 5	34 5
Number of characters   lines when using font size 14 and plotter pen 0.25: vertical	10 5	10 5	10 5

Application			
Attach to MC GSU...R   Attach to MC GSU...K	Snap-on (R)   All-purpose self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)	-   Universal self-adhesive (K)

Accessories		Page Qty.		Page Qty.		Page Qty.
Holder GSU-H	GSU-H 17x15 BK	400	80	GSU-H 17x15 BK	400	80
<b>Cat. no.</b>	<b>3827.4</b>			<b>3828.4</b>		
Protective strips STR	STR MC GSU 17x15 R	400	80	STR MC GSU 27x15 R	400	80
<b>Cat. no.</b>	<b>3860.0</b>			<b>3861.0</b>		
Cable ties KB	KB 140 BK	390	1000	KB 140 BK	390	1000
<b>Cat. no.</b>	<b>2672.0</b>			<b>2672.0</b>		

### Technical data for the Maxicard and GSU-H holder | Protective strips STR

Material	Polyamide 6.6, halogen-free   Hard PVC (STR)
Flammability class	In accordance with UL 94-V2   B1 (STR)
Temperature range	-40 to +105°C   -30 to +60°C (STR)

### Holder GSU-H, for MC GSU

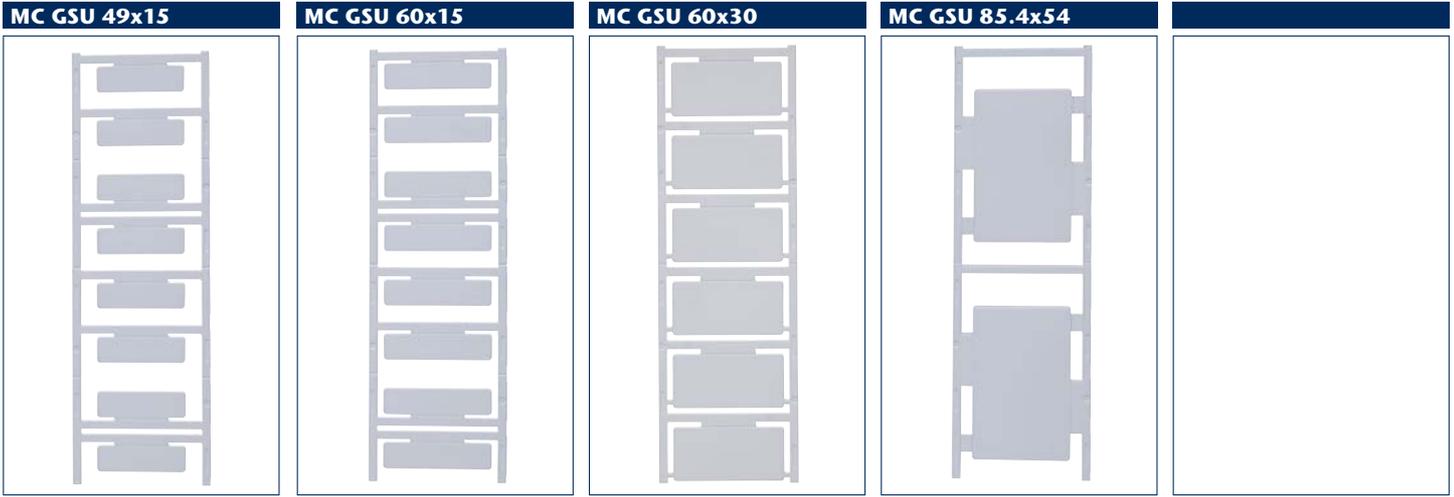


### Application Protective strips STR



### Additional accessories

More accessories starting on page 264.



MC GSU 49x15	MC GSU 60x15	MC GSU 60x30	MC GSU 85.4x54	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
MC GSU 49 x 15 R WH <b>3390.7</b>	MC GSU 60 x 15 R WH <b>3394.7</b>	MC GSU 60 x 30 R WH <b>3852.7</b>	MC GSU 85,4 x 54 R WH <b>3856.7</b>	
40	40	30	10	
MC GSU 49 x 15 R So WH <b>3392.7</b>	MC GSU 60 x 15 R So WH <b>3396.7</b>	MC GSU 60 x 30 R So WH <b>3854.7</b>	MC GSU 85,4x54 R So WH <b>3858.7</b>	
40	40	30	10	
MC GSU 49 x 15 K WH <b>3391.7</b>	MC GSU 60 x 15 K WH <b>3395.7</b>	MC GSU 60 x 30 K WH <b>3853.7</b>	MC GSU 85,4 x 54 K WH <b>3857.7</b>	
40	40	30	10	
MC GSU 49 x 15 K So WH <b>3393.7</b>	MC GSU 60 x 15 K So WH <b>3397.7</b>	MC GSU 60 x 30 K So WH <b>3855.7</b>	MC GSU 85,4x54 K So WH <b>3859.7</b>	
40	40	30	10	



49 x 15	60 x 15	60 x 30	85.4 x 54	
1	1	1	1	
8	8	6	2	
PA6.6, halogen-free -40°C to +105°C V2				

EMS	EMS	EMS	EMS	
CCI-10	CCI-10	CCI-10	CCI-10	
BS-1	BS-1	BS-1	BS-1	
38 5	45 5	45 5	65 5	
10 5	10 5	20 5	42 5	

Snap-on (R) | All-purpose self-adhesive (K)    Snap-on (R) | All-purpose self-adhesive (K)    Snap-on (R) | All-purpose self-adhesive (K)    Snap-on (R) | All-purpose self-adhesive (K)

Page Qty.	Page Qty.	Page Qty.	Page Qty.	
GSU-H 49x15 BK <b>3829.4</b>	GSU-H 60x15 BK <b>3830.4</b>	GSU-H 60x30 BK <b>3850.4</b>	GSU-H 85,4x54 BK <b>3851.4</b>	
401 40	401 40	401 30	401 10	
STR MC GSU 49x15 R <b>3862.0</b>	STR MC GSU 60x15 R <b>3863.0</b>	STR MC GSU 60x30 R <b>3864.0</b>	STR MC GSU 85,4x54 R <b>3865.0</b>	
401 40	401 40	401 30	401 10	
KB 140 BK <b>2672.0</b>	KB 140 BK <b>2672.0</b>	KB 140 BK <b>2672.0</b>	KB 140 BK <b>2672.0</b>	
390 1000	390 1000	390 1000	390 1000	

**Application  
MC GSU...K**




## Device and installation markers – Maxicard MC GSU

Maxicard MC GSU and holder	MC GSU 17x15	MC GSU 17x15	MC GSU 45x15
<p>Colour: yellow, printed in two languages: Vorsicht Spannung – Attention Voltage</p> <p>The marker is snapped in to the <b>GSU-H</b> holder. It is protected from environmental conditions by the <b>STR MC GSU</b> protective strips.</p> <p>It is available in seven sizes, as either snap-on (R) or stick-on (K) variants.</p> <p>Material: polyamide 6.6 UL 94-V2, halogen-free</p>			

Type		Qty.	Qty.	Qty.	
Type/colour					
<b>Cat. no.</b>	Snap-on	MC GSU 17 x 15 R/B YE <b>3872.8</b>	80	MC GSU 27 x 15 R/B YE <b>3874.8</b>	80
Type/colour					
<b>Cat. no.</b>	self-adhesive	MC GSU 17 x 15 K/B YE <b>3873.8</b>	80	MC GSU 27 x 15 K/B YE <b>3875.8</b>	80
Type/colour					
<b>Cat. no.</b>				MC GSU 45 x 15 K/B YE <b>3888.8</b>	40

Colours available	⑧	⑧	⑧
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Characteristics			
<b>Dimensions</b>			
Length x width, mm	17 x 15	27 x 15	45 x 15
Number of markers per row	2	2	1
Number of markers per card	16	16	8
<b>Material</b>			
Material	PA6.6, halogen-free	PA6.6, halogen-free	PA6.6, halogen-free
Temperature range	-40°C to +105°C	-40°C to +105°C	-40°C to +105°C
Flamm. class acc. to UL 94	V2	V2	V2

Inscription			
Plotter	Thermal transfer	Thermal transfer	Thermal transfer

Application			
Attach to MC GSU...R   Attach to MC GSU...K	Snap-on (R)   All-purpose self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)	-   Universal self-adhesive (K)

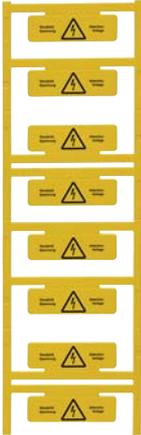
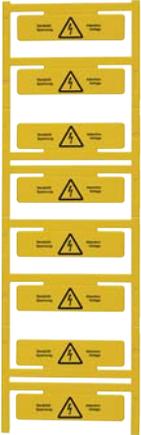
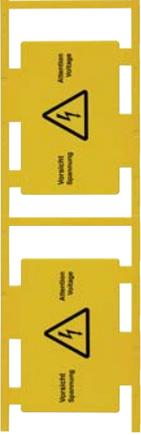
Accessories	Page Qty.	Page Qty.	Page Qty.	
Holder GSU-H, for MC GSU...R	GSU-H 17 x 15 BK <b>3827.4</b>	400 1000	GSU-H 27 x 15 BK <b>3828.4</b>	400 1000
Protective strips STR	STR MC GSU 17 x 15 R <b>3860.0</b>	400 80	STR MC GSU 27 x 15 R <b>3861.0</b>	400 80
Cable ties KB				
<b>Cat. no.</b>				

Technical data for the Maxicard and GSU-H holder   Protective strips STR	
Material	Polyamide 6.6, halogen-free   Hart PVC (STR)
Flammability class	In accordance with UL 94-V2   B1 (STR)
Temperature range	-40 to +105°C   -30 to +60°C (STR)



Additional accessories
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More accessories starting on page 264.

MC GSU 49x15	MC GSU 60x15	MC GSU 60x30	MC GSU 85,4x54	
				
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
MC GSU 49 x 15 R/B YE <b>3876.8</b>	MC GSU 60 x 15 R/B YE <b>3878.8</b>	MC GSU 60 x 30 R/B YE <b>3880.8</b>	MC GSU 85,4 x 54 R/B YE <b>3882.8</b>	
40	40	30	10	
MC GSU 49 x 15 K/B YE <b>3877.8</b>	MC GSU 60 x 15 K/B YE <b>3879.8</b>	MC GSU 60 x 30 K/B YE <b>3881.8</b>	MC GSU 85,4 x 54 K/B YE <b>3883.8</b>	
40	40	30	10	
<b>ⓑ</b>	<b>ⓑ</b>	<b>ⓑ</b>	<b>ⓑ</b>	
49 x 15	60 x 15	60 x 30	85,4 x 54	
1	1	1	1	
8	8	6	2	
PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2	PA6.6, halogen-free -40°C to +105°C V2	
Thermal transfer	Thermal transfer	Thermal transfer	Thermal transfer	
Snap-on (R)   All-purpose self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)	Snap-on (R)   All-purpose self-adhesive (K)	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
GSU-H 49 x 15 BK <b>3829.4</b>	GSU-H 60 x 15 BK <b>3830.4</b>	GSU-H 60 x 30 BK <b>3850.4</b>	GSU-H 85,4 x 54 BK <b>3851.4</b>	
401 1000	401 1000	401 1000	401 1000	
STR MC GSU 49 x 15 R <b>3862.0</b>	STR MC GSU 60 x 15 R <b>3863.0</b>	STR MC GSU 60 x 30 R <b>3864.0</b>	STR MC GSU 85,4 x 54 R <b>3865.0</b>	
401 40	401 40	401 30	401 10	
<b>Application</b> <b>MC GSU...K</b>				
				

**Device and facility markers – GKE adhesive device labels**

**Adhesive device labels GKE**

**GKE** adhesive device labels bring clarity to the switchgear cabinet. With four different sizes and three colours, the **GKE** series provides the right marking solution for any position in the switchgear cabinet.

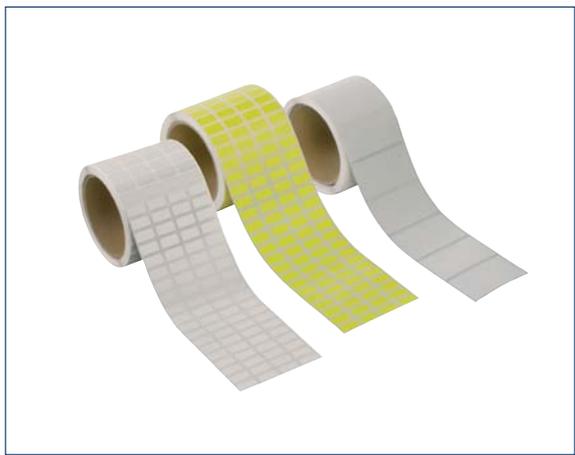
Quick and professional marking with the **TTP** thermal-transfer printer or **EMS** plotter.

The **BS-1** marker pen provides uncomplicated and quick marking of blank labels

Format: DIN A4 or roll  
Material polyester



**GKE, roll**



Type	Qty.
Type roll	1
<b>Cat. no.</b>	
Type sheet	10
<b>Cat. no.</b>	

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Colours available

**Characteristics**

**Dimensions**

Diameter of roll core	75 mm
Sheet	DIN A4

**Material**

Material	Polyester
Temperature range	-40°C to +105°C
Min. temperature when attaching	+15°C
Resistance	Water, alcohol, benzene, oils
Min. 2 year storage under normal conditions (21°C and 50 % relative humidity)	2 years

**Inscription**

Plotter for GKE..A4	EMS
Plotter inlay	CCI-8
Printer for GKE...roll	TTP
Marker pen	BS-1

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**Additional accessories**

More accessories starting on page 264.

Type	Qty.
GKE...	1
GKE...A4	10

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7 8

**Characteristics**

**Dimensions**

Diameter of roll core	75 mm
Sheet	DIN A4

**Material**

Material	Polyester
Temperature range	-40°C to +105°C
Min. temperature when attaching	+15°C
Resistance	Water, alcohol, benzene, oils
Min. 2 year storage under normal conditions (21°C and 50 % relative humidity)	2 years

**Inscription**

Plotter for GKE..A4	EMS
Plotter inlay	CCI-8
Printer for GKE...roll	TTP
Marker pen	BS-1

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**Additional accessories**

Type	Cat. no.	Tag size LxW (mm)	Roll at... pieces
GKE 10/7 YE	3914.8	10x70	10000
GKE 15/6 YE	3900.8	15x6	10000
GKE 15/6 SI	3900.0	15x6	10000
GKE 15/6 WH	3900.7	15x6	10000
GKE 18/6 YE	3901.8	18x6	10000
GKE 18/6 SI	3901.0	18x6	10000
GKE 18/6 WH	3901.7	18x6	10000
GKE 18/9 YE	3902.8	18x9	10000
GKE 18/9 SI	3902.0	18x9	10000
GKE 18/9 WH	3902.7	18x9	10000
GKE 20/8 YE	3903.8	20x8	10000
GKE 20/8 SI	3903.0	20x8	10000
GKE 20/8 WH	3903.7	20x8	10000
GKE 21.5/21.5 SI	3915.0	21.5x21.5	6000
GKE 25/12 YE	3904.8	25x12	10000
GKE 25/12 SI	3904.0	25x12	10000
GKE 25/12 WH	3904.7	25x12	10000
GKE 26/10 YE	3905.8	26x10	10000
GKE 26/10 SI	3905.0	26x10	10000
GKE 26/10 WH	3905.7	26x10	10000
GKE 26,5/17,5 SI	3906.0	26.5x17.5	10000
GKE 27/27 SI	3916.0	27x27	9000
GKE 30/6 WH	3917.7	30x6	10000
GKE 30/20 YE	3907.8	30x20	6000
GKE 30/20 SI	3907.0	30x20	6000
GKE 30/20 WH	3907.7	30x20	6000
GKE 32/9 YE	3908.8	32x9	10000
GKE 32/9 SI	3908.0	32x9	10000
GKE 32/9 WH	3908.7	32x9	10000
GKE 38/19 YE	3909.8	38x19	2000
GKE 38/19 SI	3909.0	38x19	2000
GKE 38/19 WH	3909.7	38x19	2000
GKE 45/10 WH	88607.0	45x10	10000
GKE 45/23 YE	3910.8	45x23	2000
GKE 45/23 SI	3910.0	45x23	2000
GKE 45/23 WH	3910.7	45x23	2000
GKE 65/35 YE	3911.8	65x35	1000
GKE 65/35 SI	3911.0	65x35	1000
GKE 65/35 WH	3911.7	65x35	1000
GKE 101/48 SI	3912.0	101x48	500
GKE 101/74 SI	3913.0	101x74	500

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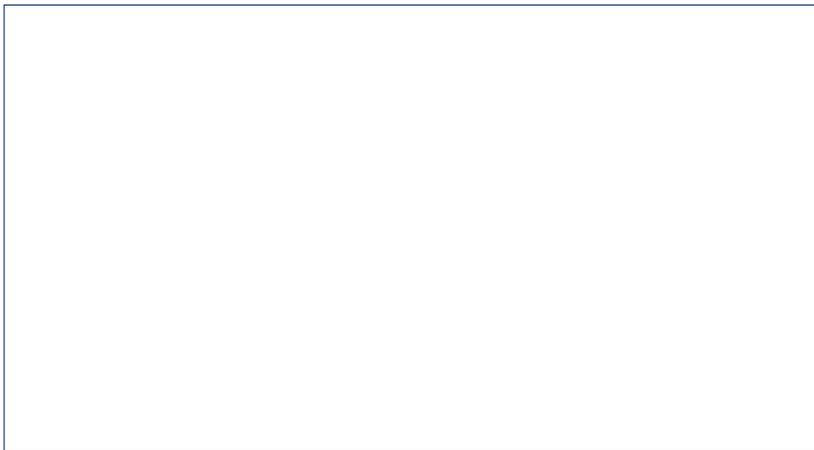
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**Additional accessories**

**GKE DIN A4 sheet**



Cat. no.	Type	Tag size LxW (mm)	DIN A4 sheet with ... pcs
3920.8	GKE 15/4,6 A4 YE	15x4.6	627
3920.7	GKE 15/ 4,6 A4 WH	15x4.6	627
3921.8	GKE15/6 A4 YE	15x6	484
3921.7	GKE 15/ 6 A4 WH	15x6	484
88517.0	GKE 17/9 A4 YE	17x9	290
88517.7	GKE 17/ 9 A4 WH	17x9	290
3992.8	GKE 20/8 A4 YE	20x8	264
3922.7	GKE 20/ 8 A4 WH	20x8	264
3923.8	GKE 25,4/12,7 A4 YE	25.4x12.7	147
3923.7	GKE 25,4/ 12,7 A4 WH	25.4x12.7	147
3924.8	GKE 26/10 A4 YE	26x10	156
3924.7	GKE 26/ 10 A4 WH	26x10	156
3925.8	GKE 30/20 A4 YE	30x20	78
3925.7	GKE 30/20 A4 WH	30x20	78
3926.8	GKE 56/22 A4 YE	56x22	36
3926.7	GKE 56/ 22 A4 WH	56x22	36
3927.8	GKE 60/36 A4 YE	60x36	21
3927.7	GKE 60/ 36 A4 WH	60x36	21
3928.8	GKE 105/148 A4 YE	105x148	4
3928.7	GKE 105/148 A4 WH	105x148	4
3929.8	GKE 210/148 A4 YE	210x148	2
3929.7	GKE 210/ 148 A4 WH	210x148	2

## Device and facility markers – Plastic engraving cards GMP

### Plastic engraving material GMP

Markers for engraving and identification on switchgear cabinets, machines and facilities.

This high-quality marking option is a good solution for any application.

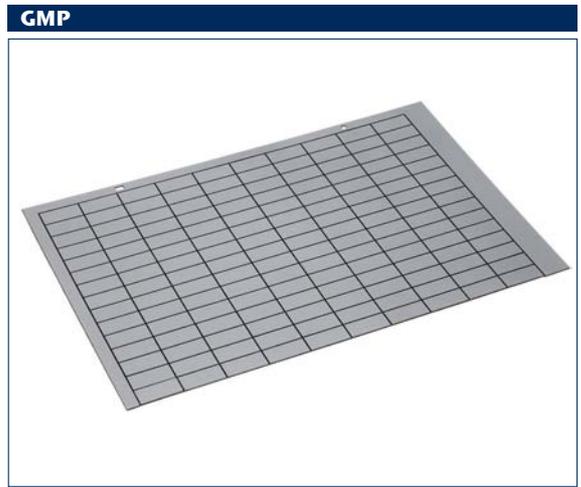
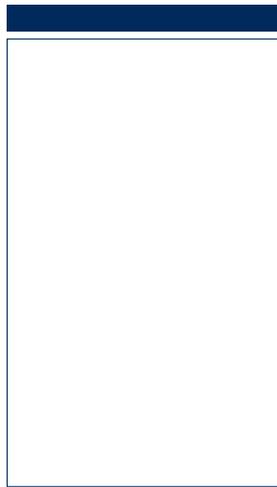
**GMP** markers can be engraved on with the **EMS Engraving Unit** or they can be used with plotter pens.

Precise alignment of the 300 x 200 mm cards on the plotter base plate by means of the adhesive inlay **CCI-8**.

Pre-milled markers in various sizes or 300 x 200-mm blank cards are available.

Markers come with a silver base colour and black fill colour or alternatively a white base colour and black fill colour.

Material: Acrylate polymer



Type	Qty.	Cat. no.	Type	Tag size LxW (mm)	Card at... pieces
Type	GMP...				
Cat. no.	2	<b>1660.0</b>	GMP 17/9 R WH BK	17x9	255
		<b>1661.0</b>	GMP 17/9 R SI BK	17x9	255
		<b>1662.0</b>	GMP 18/9 R WH BK	18x9	238
		<b>1663.0</b>	GMP 19/9 R SI BK	18x9	238
		<b>1664.0</b>	GMP 22/22 R WH BK	22x22	84
		<b>1665.0</b>	GMP 22/22 R SI BK	22x22	84
		<b>1666.0</b>	GMP 25/60 R WH BK	25x60	30
		<b>1667.0</b>	GMP 19/45 R SI BK	19x45	56
		<b>1668.0</b>	GMP 27/12,5 R WH BK	27x12.5	120
		<b>1669.0</b>	GMP 27/12,5 R SI BK	27x12.5	120
		<b>1670.0</b>	GMP 27/18 R WH BK	27x18	90
		<b>1671.0</b>	GMP 27/18 R SI BK	27x18	90
		<b>1672.0</b>	GMP 27/27 R WH BK	27x27	60
		<b>1673.0</b>	GMP 27/27 R SI BK	27x27	60
		<b>1674.0</b>	GMP 30/15 SI BK	30x15	108
		<b>1675.0</b>	GMP 70/35 R SI BK	70x35	20
		<b>1676.0</b>	GMP 200/300 WH BK	200x300	1
		<b>1677.0</b>	GMP 200/300 SI BK	200x300	1
		<b>1679.0</b>	GMP 45/14 R SI BK	49x15	72
		<b>1690.0</b>	GMP 27/18 R RD WH	27x18	90
		<b>1691.0</b>	GMP 50/20 R RD WH	50x20	45
		<b>1692.0</b>	GMP 70/35 R RD WH	70x35	20
		<b>1693.0</b>	GMP 95/45 R RD WH	95x45	12
		<b>1786.0</b>	GMP 25/60 R SI BK	25x60	30
		<b>1787.0</b>	GMP 40/15 WH BK	40x15	84
		<b>1788.0</b>	GMP 60/20 WH BK	60x20	42
		<b>1789.0</b>	GMP 70/35 WH BK	70x35	20
		<b>1791.0</b>	GMP 8/18 WH BK	8x18	374

Colours available

### Characteristics

### Dimensions

Card size, mm

R = corners with marker radius

### Material

Material

Temperature range

Resistance

### Inscription

Printing process

Plotter inlay

Fill colour

### Application

Attachment

### Additional accessories

More accessories starting on page 264.



Printing systems and software – Plotter systems EMS

**Plotter system EMS-2**

A system that fulfils a wide variety of marking and labelling requirements! The EMS Easy Marking System series features excellent versatility and ease of use.

- Generous loading capacity: up to 800 markers for the EMS-2 DIN A3 with 4 inlays; up to 400 markers for the EMS-2 DIN A4 with 2 inlays.
- Short loading times for various materials, thanks to fast and straightforward exchange of inlays and automatic inlay recognition
- The accompanying labelling software, **CONTA-Sign**, is available in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish)
- Free software updates can be downloaded from our web page
- High-quality labelling is ensured by the combination of our **PP** and **PPE** pens and the double-sided plotter arm design.
- Just one inlay for all **CONTA-CLIP** Maxicards
- Automatic calibration eliminates the need for manual adjustments

**EMS-2**



**Type**

Type

**Cat. no.**

**Technical data for DIN A3 plotter**

Printer type

Drive

Intended use

Max. marker height

Max. plotting area

Command language

Max. plotting speed

Max. printing speed

Dimensions (WxHxD)

Weight

Supply voltage

Interfaces

Pen station

Inlays

Ambient temperature

**Qty.**

1

**EMS-2 Starter Kit DIN A3**

1 x EMS-2 Easy Marking System DIN A3 (1610.0)

1 x plotter inlay CCI-10 (1606.0)

1x disposable plotter pen PPE 0.35 (1651.0)

Plotter (DIN A3), power pack, connecting cable (parallel cable and USB cable for connecting the plotter to a PC), software: CONTA-Sign CS in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish). Runs on Windows: 2000, XP, Vista, 7

**1612.0**

Flat bed plotter

Two-phase step motor

Printing markers of various materials and sizes

10.5 mm, custom solutions up to 15 mm

DIN A3, 440 x 305

Based on HP-GL

40 cm /sec.

80 mm /sec.

660 x 125 x 440

Approx. 8 kg

100-240 V AC 50-60 Hz

Centronix / USB Level 1.1

Max. 4 plotter pens

Max. 4 pieces

10°C...35°C

**Type**

Type

**Cat. no.**

Printer type

Drive

Intended use

Max. marker height

Max. plotting area

Command language

Max. plotting speed

Max. printing speed

Dimensions (WxHxD)

Weight

Supply voltage

Interfaces

Pen station

Inlays

Ambient temperature

**Qty.**

1

EMS-2 Starter Kit DIN A4

1 x EMS-2 Easy Marking System DIN A4 (1631.0)

1 x plotter inlay CCI-10 (1606.0)

1x disposable plotter pen PPE 0.35 (1651.0)

Plotter (DIN A3), power pack, connecting cable (parallel cable and USB cable for connecting the plotter to a PC), software: CONTA-Sign CS in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish). Runs on Windows: 2000, XP, Vista, 7

**9800.0**

Flat bed plotter

Two-phase step motor

Printing markers of various materials and sizes

10.5 mm, custom solutions up to 15 mm

DIN A4, 220 x 305

Based on HP-GL

40 cm /sec.

80 mm /sec.

450 x 125 x 440

Approx. 6 kg

100-240 V AC 50-60 Hz

Centronix / USB Level 1.1

Max. 4 plotter pens

Max. 2 pieces

10°C...35°C

## EMS-eco Marking-System Plotter

- A system that fulfils a wide variety of marking and labelling requirements! The entry-level model in our EMS Easy Marking System series stands out for the impressive versatility and user-friendliness fitted into its small size.
- Generous loading capacity (up to 400 markers with 2 inlays)
  - Short loading times for various materials, thanks to fast and straightforward exchange of inlays and automatic inlay recognition
  - The accompanying labelling software, **CONTA-Sign**, is available in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish)
  - Free software updates can be downloaded from our web page
  - High-quality labelling is ensured by the combination of our plotter pens and the double-sided plotter arm design.
  - Just one inlay for all **CONTA-CLIP** Maxicards
  - Automatic calibration eliminates the need for manual adjustments

## EMS-eco



### Type

Type

### Cat. no.

### Technical data

Printer type	Flat-bed plotter
Drive	Two-phase step motor
Intended use	Printing markers of various materials and sizes
Max. marker height	10.5 mm, custom solutions up to 15 mm
Max. plotting area	DIN A4, 220 x 305
Command language	Based on HP-GL
Max. plotting speed	40 cm /sec.
Max. printing speed	80 mm /sec.
Dimensions (WxHxD)	440 x 125 x 440
Weight	approx. 6 kg
Supply voltage	100-240V AC 50-60 Hz
Interfaces	USB Level 1.1
Pen station	-
Inlays	Max. 2 pieces
Ambient temperature	10°C...35°C

### EMS accessories (DIN A3, DIN A4, eco)

Cat. no.	Type
1630.0	Pressure ball
1595.0	TP (5x1 ml)
1614.0	TPP (5x1 ml)
1597.0	CC-1
1598.0	PC-1

1648.0	Protective dust cover EMS-2 DIN A3
1687.0	Protective dust cover EMS-2 DIN A4
1658.0	Visual calibration tool
1647.0	Service Set EMS-2

### Engraving unit for EMS plotter (DINA3, DIN A4, eco)

1621.0	EMS engraving unit
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### Engraving unit accessories

1623.0	Graver 0.2
1624.0	Graver 0.3
1625.0	Graver 0.4
1626.0	Graver 0.5
1627.0	Graver 0.7
1628.0	Graver 1.0
1629.0	Graver set for plastic
1635.0	Graver cutter 0.2
1636.0	Graver cutter 0.4
1637.0	Graver cutter 0.6
1638.0	Graver cutter 1.0
1684.0	Graver cutter 1.4
1688.0	Graver cutter 2.0
1689.0	Graver cutter 2.4
1685.0	Survot cutting oil, 500 ml
1686.0	alu-oxide acid, 100 ml
1659.0	EMS-2 engraving unit, vacuum cleaner bag

### EMS-eco Starter Kit DIN A4

1 x EMS-eco Easy Marking System DIN A4 (1611.0)

1 x plotter inlay CCI-10 (1606.0)

1 x disposable plotter pen PPE 0.35 (1651.0)

Plotter (DINA4), power pack, connecting cable (USB cable for connecting the plotter to a PC), software: CONTA-Sign CS in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish), 2000, XP, Vista, 7

### 1613.0

Short description	Qty.
The pen is re-activated by means of negative pressure following a refill or a longer period of non-use.	1
Ink cartridge for the PP plotter pen (the etching ink is quick-drying, smudge-proof, non-fading as well as resistant to spirits and benzene when used with suitable plastic materials). The use of cartridges eliminates the need to re-fill the ink.	1
Ink Cartridge Paper for PPP (Plotter Pen Paper) for printing on paper	1
Cleaning container (reusable cleaning container for PP)	1
Pen cleaner (for cleaning two PP plotter pens). Two new clip-seal caps are included.	1
For EMS-2 A3	1
For EMS-2 A4 and EMS eco	1
Visual calibration aid for the EMS-2 (DIN A3 and DIN A4)	1
Four exchangeable sealing inserts (for pen station), installation key and ten exchangeable tags	1
Engraving module for EMS-2 plotter including: spindle, controller, vacuum cleaner and 0.4-mm graver. This addition extends the EMS plotter so it can be used as an affordable engraving tool for aluminium or plastic.	1
Graver set for plastic, 0.2 mm	1
Graver set for plastic, 0.3 mm	1
Graver set for plastic, 0.4 mm	1
Graver set for plastic, 0.5 mm	1
Graver set for plastic, 0.7 mm	1
Graver set for plastic, 1.0 mm	1
Graver set for plastic (0.2; 0.3; 0.4; 0.5; 0.7; 1.0 mm) incl. packaging	1
Graver cutter for aluminium, 0.2 mm	1
Graver cutter for aluminium, 0.4 mm	1
Graver cutter for aluminium, 0.6 mm	1
Graver cutter for aluminium, 1.0 mm	1
Graver cutter for aluminium, 1.4 mm	1
Graver cutter for aluminium, 2.0 mm	1
Graver cutter for aluminium, 2.4 mm	1
500 ml cutting oil for aluminium	1
100 mm alu-oxide acid for darkening of anodized aluminium markers	1
1 packet á 5 bags	1

**Printing systems and software – Inlays for plotter systems EMS**

**Inlays**

**CONTA-CLIP's EMS** plotter systems allow you to conveniently print on practically any **CONTA-CLIP** marker. **CONTA-CLIP** offers a matching inlay for each marker. Just pick the appropriate inlay for your marker and you're already on your way.

The **CONTA-Sign** marking software can automatically recognize the inserted inlay; the software can then suggest the appropriate marker to the user.

In addition to our proprietary inlays, **CONTA-CLIP** offers inlays for the standard markers from other manufacturers such as Partex, Phoenix, Wago or Weidmüller. These are available upon request.

**CCI**



Type	Cat. no.	Qty.	For holding CONTA-CLIP markers of type
Type	Cat. no.	1	AD 1/5 N
Type	Cat. no.	1	ADQ
Type	Cat. no.	1	KBH-S4
Type	Cat. no.	1	AD 1/5 AD 1/6 AD 1/8 AD 1/16 N
Type	Cat. no.	1	AD 1/2 N
Type	Cat. no.	1	ESO GT 1 ESO GT 2 ESO BST 8 KKE...A4 GKE...A4 GMP... GMA...
Type	Cat. no.	1	MC SB MC BSTR MC MM MC KMS MC ESS MC GS MC GST MC GSU MC KMC
Type	Cat. no.	1	SchT 9 SchT 10 ZSchT 6
Type	Cat. no.	1	KBH-S 21 strip KBH-S 36 strip KBH-S 57 strip KBH-S 84 strip
Type	Cat. no.	1	KBH-S 3/15 strip KBH-S 3/21 strip KBH-S 3/27 strip
Type	Cat. no.	1	KBH 5/15 strip KBH 5/21 strip KBH 5/27 strip
Type	Cat. no.	1	KBH 10/15 KBH 10/21 KBH 10/27 KBH 10/36



## Printing systems and software – Thermal-transfer printer TTP

### Thermal transfer printer TTP

The **TTP** thermal-transfer printer was designed specifically for marking solutions in systems and switchgear cabinet applications and is very versatile.

- Its speed and robustness make the **TTP** printer ideal for industrial applications.
- Short loading times for various materials, thanks to fast and straightforward exchange of label rolls.
- The accompanying labelling software, **CONTA-Sign**, is available in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish)
- Free software updates can be downloaded from our web page
- The **TTP** can be used to print on **GKE** and **KKE** labels quickly and simply.

### TTP



#### Type

Type

#### Cat. no.

#### Technical data

Printer type	Thermal transfer
Intended use	Printing of labels
Max. label width	110 mm
Min. label width	15 mm
Print width	104 mm
Max. printing height	750 mm
Min. label height	6 mm
Resolution	200 dpi
Max. printing speed	50 - 80 mm/sec
Dimensions (W x H x D)	230 x 230 x 350
Weight	ca. 9 kg
Supply voltage	230 V AC / 50 Hz (optional 115 V AC / 60 Hz)
Interfaces	RS232 C / USB 1.1
Barcodes	EAN 8, EAN 13, EAN 128, Code 39, Code 39 extended, Code 128, Code 2/5 interleaved
Diameter of label role core	75 mm (40 mm optional)
Max. diameter of roll	180 mm

#### TTP accessories

Cat. no.	Type
<b>1641.0</b>	TTP film
<b>1639.0</b>	TTP cleaning set

#### Overview

Roll of thermal-transfer film, 110 mm x 300 mm (outside with colour) industrial quality  
 1 print head and drum cleaner, 250 ml  
 1 compressed air for cleaning the photoelectric sensor, 200 ml  
 22 wipes, 5 cleaning spatulas, 2 cleaning cards, 1 cleaning file for print head,  
 1 label solvent spray, 200 ml

#### Qty.

1

#### TTP Starter Kit

1 x TTP-Printer (**1640.0**)

1 x TTP film (**1641.0**)

Thermal-transfer printer TTP, including power cable, printer driver and software CONTA-Sign CS in ten languages (German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish), runs under Windows: 2000, XP, Vista, 7. Connection cable (USB cable), label attacher (75-mm diameter)

#### 1644.0

## Printing systems and software – Plotter and printing pens

### Plotter and printing pens

CONTA-CLIP offers a complete line of plotter pens and hand pens for labelling all types of markers and adhesive labels. The reusable **PP** pens are available in six different line widths and can be refilled using the **TP** ink cartridge. The disposable **PPE** pen is an affordable and long-lasting alternative to the **PP** pen. This pen is available with six line widths. The HP hand pen can be used to label quickly and easily without a plotter. The **TP** ink cartridges can be used to refill it. It is available in four different line widths.

The **PPE Ink-ED** does not dry out even if it has not been used for a long time, but is not suitable for marking outside of the switchgear cabinet because it is not resistant to smearing. Additional ink colours and line widths for the **PPE INK-ED** are available on request.

Type		Qty.		Qty.		Qty.	
Type	Disposable	PPE 0.18 mm	1	PPE 0.25 mm	1	PPE 0.35 mm	1
Cat. no.		<b>1649.0</b>		<b>1650.0</b>		<b>1651.0</b>	
Type	Disposable	PPE Ink-ED 0.18 mm	1	PPE Ink-ED 0.25 mm	1	PPE Ink-ED 0.35 mm	1
Cat. no.		<b>9820.0</b>		<b>9821.0</b>		<b>9822.0</b>	
Type	Reusable	PP 0.18 mm	1	PP 0.25 mm	1	PP 0.35 mm	1
Cat. no.		<b>1586.0</b>		<b>1587.0</b>		<b>1588.0</b>	
Type	Reusable	HP 0.25 mm	1	HP 0.25 mm	1	HP 0.35 mm	1
Cat. no.		<b>1316.0</b>		<b>1316.0</b>		<b>1317.0</b>	
Characteristics							
General							
Line width, mm		0.18		0.25		0.35	
Colour code		red		white		yellow	
Ink colour		black		black		black	
Storage							
Storage temperature °C   °F		+5°C to +20°C   +41°F to +68°F		+5°C to +20°C   +41°F to +68°F		+5°C to +20°C   +41°F to +68°F	
Storage at rel. humidity level of:		30% to 60%		30% to 60%		30% to 60%	
Application							
For labelling of:		Plastic		Plastic		Plastic	
Characteristics		Quick-drying, smudge-proof*, non-fading		Quick-drying, smudge-proof*, non-fading		Quick-drying, smudge-proof*, non-fading	
Plotter / Plotter pen holder		yes (PPE/PP) / yes (PPE/PP)		yes (PPE/PP) / yes (PPE/PP)		yes (PPE/PP) / yes (PPE/PP)	
Accessories							
Ink cartridge for PP / HP (TP)		TP (5 x 1ml)	409	TP (5 x 1ml)	409	TP (5 x 1ml)	409
Cat. no.		<b>1595.0</b>		<b>1595.0</b>		<b>1595.0</b>	
Pressure ball for plotter pen		Pressure ball	409	Pressure ball	409	Pressure ball	409
Cat. no.		<b>1630.0</b>		<b>1630.0</b>		<b>1630.0</b>	
Cleaning container		CC-1	409	CC-1	409	CC-1	409
Cat. no.		<b>1597.0</b>		<b>1597.0</b>		<b>1597.0</b>	
Pen cleaner		PC-1	409	PC-1	409	PC-1	409
Cat. no.		<b>1598.0</b>		<b>1598.0</b>		<b>1598.0</b>	
		Page Qty.		Page Qty.		Page Qty.	
		PPP 0.18		PPP 0.25		PPP 0.35	

The **PPP** paper plotter pen is particularly well suited for labelling paper. It is designed for use with the **TPP** ink, which is particularly suitable for paper. The **PMP** permanent pen is an affordable pen that is primarily used for test purposes. The **BS-1** marker pen is good for easy labelling tasks that are carried out on-site. They can also be used with an adapter on a plotter.

Type		Qty.		Qty.		Qty.	
Type	Disposable	PPP 0.18 mm	1	PPP 0.25 mm	1	PPP 0.35 mm	1
Cat. no.		<b>1615.0</b>		<b>1616.0</b>		<b>1617.0</b>	
Type	Reusable	PPP 0.18 mm	1	PPP 0.25 mm	1	PPP 0.35 mm	1
Cat. no.		<b>1615.0</b>		<b>1616.0</b>		<b>1617.0</b>	
Characteristics							
General							
Line width, mm		0.18		0.25		0.35	
Colour code		red		white		yellow	
Ink colour		black		black		black	
Storage							
Storage temperature °C   °F		+5°C to +20°C   +41°F to +68°F		+5°C to +20°C   +41°F to +68°F		+5°C to +20°C   +41°F to +68°F	
Storage at rel. humidity level of:		30% to 60%		30% to 60%		30% to 60%	
Application							
For labelling of:		Paper		Paper		Paper	
Characteristics		smudge-proof		smudge-proof		smudge-proof	
Plotter / Plotter pen holder		yes / yes		yes / yes		yes / yes	
Accessories							
Ink cartridge for PPP (TPP)/plotter adapter		TPP (5 x 1ml)	409	TPP (5 x 1ml)	409	TPP (5 x 1ml)	409
Cat. no.		<b>1614.0</b>		<b>1614.0</b>		<b>1614.0</b>	
		Page Qty.		Page Qty.		Page Qty.	
		PPP 0.18		PPP 0.25		PPP 0.35	

\*1: with plotter adapter \*2: PE INK-ED only smear resistant

PP../HP 0.5	PP../HP 0.70	PP..1.00		
				
Disposable plotter pen, 0.50 mm Reusable plotter pen, 0.50 mm Reusable hand pen, 0.50 mm	Disposable plotter pen, 0.70 mm Reusable plotter pen, 0.70 mm Reusable hand pen, 0.70 mm	Disposable plotter pen, 1.00 mm Reusable plotter pen, 1.00 mm		
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
PPE 0.5 mm <b>1652.0</b> 1	PPE 0.7 mm <b>1653.0</b> 1	PPE 1.0 mm <b>1654.0</b> 1		
PPE Ink-ED 0.5 mm <b>9823.0</b> 1	PPE Ink-ED 0.7 mm <b>9824.0</b> 1	PPE Ink-ED 1.0 mm <b>9825.0</b> 1		
PP 0.5 mm <b>1589.0</b> 1	PP 0.7 mm <b>1590.0</b> 1	PP 1.0 mm <b>1591.0</b> 1		
HP 0.5 mm <b>1318.0</b> 1	HP 0.7 mm <b>1319.0</b> 1			
0.50	0.70	1.00		
brown	blue	orange		
black	black	black		
+5°C to +20°C   +41°F to +68°F 30% to 60%	+5°C to +20°C   +41°F to +68°F 30% to 60%	+5°C to +20°C   +41°F to +68°F 30% to 60%		
Plastic	Plastic	Plastic		
Quick-drying, smudge-proof, non-fading yes (PPE/PP) / yes (PPE/PP)	Quick-drying, smudge-proof, non-fading yes (PPE/PP) / yes (PPE/PP)	Quick-drying, smudge-proof, non-fading yes (PPE/PP) / yes (PPE/PP)		
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>		
TP (5 x 1ml) <b>1595.0</b> 409 1	TP (5 x 1ml) <b>1595.0</b> 409 1	TP (5 x 1ml) <b>1595.0</b> 409 1		
Pressure ball <b>1630.0</b> 409 1	Pressure ball <b>1630.0</b> 409 1	Pressure ball <b>1630.0</b> 409 1		
CC-1 <b>1597.0</b> 409 1	CC-1 <b>1597.0</b> 409 1	CC-1 <b>1597.0</b> 409 1		
PC-1 <b>1598.0</b> 409 1	PC-1 <b>1598.0</b> 409 1	PC-1 <b>1598.0</b> 409 1		
<b>PPP 0.50</b>	<b>PPP 0.70</b>	<b>PPP 1.00</b>	<b>BS-1</b>	
				
Paper plotter pen / reusable, 0.50 mm	Paper plotter pen / reusable, 0.70 mm	Paper plotter pen/ reusable, 1.00 mm	Labelling pen 0.4 mm	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
PPP 0.50 mm <b>1618.0</b> 1	PPP 0.70 mm <b>1619.0</b> 1	PPP 1.00 mm <b>1620.0</b> 1	BS-1 <b>2034.0</b> 1	
0.50	0.70	1.00	0.40	
brown	blue	orange	-	
black	black	black	black	
+5°C to +20°C   +41°F to +68°F 30% to 60%	+5°C to +20°C   +41°F to +68°F 30% to 60%	+5°C to +20°C   +41°F to +68°F 30% to 60%	+5°C to +20°C   +41°F to +68°F 30% to 60%	
Paper	Paper	Paper	Plastic / paper	
Smudge-proof	Smudge-proof	Smudge-proof	Water-proof and smudge-proof	
yes / yes	yes / yes	yes / yes	yes*1 / yes*1	
<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	<b>Page Qty.</b>	
TPP (5 x 1ml) <b>1614.0</b> 409 1	TPP (5 x 1ml) <b>1614.0</b> 409 1	TPP (5 x 1ml) <b>1614.0</b> 409 1	Adapter BS-1 <b>2000.0</b> 413 1	

# Labelling systems and software – Labelling software CONTA-Sign

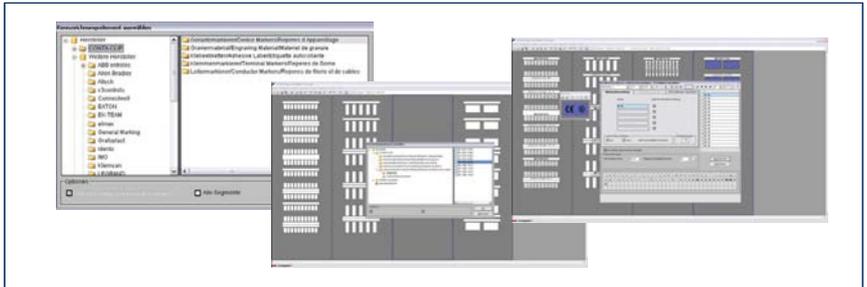
## Labelling software CONTA-Sign

The Windows-based **CONTA-Sign** software was specially developed to produce professional marking solutions for systems and switchgear cabinet applications. This **CONTA-Sign** software can be used to control the **EMS-2** plotters (A3, A4 and eco). It can also be used with printing on heat-transfer roll printers (**TTP**) or with Windows-based printers. This software can be used to print on almost all of the markers that **CONTA-CLIP** delivers.

**CONTA-Sign** can be used to easily print text, barcodes or graphics on the markers.

The **CONTA-Sign** software is available in ten languages.

## CONTA-Sign



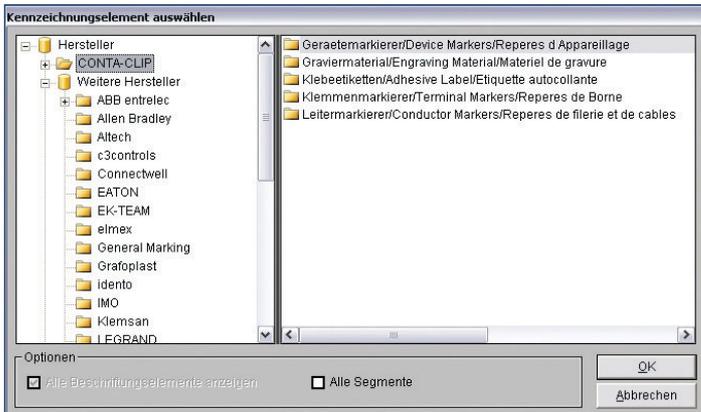
### System requirements

- CPU
- RAM
- Drives
- Screen resolution
- Operating system
- Peripherals
- Languages

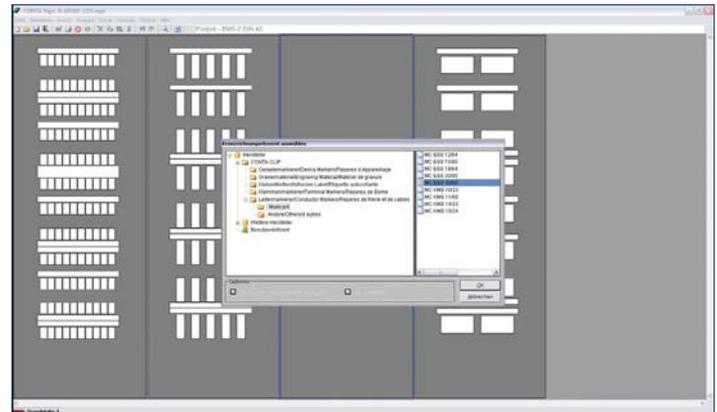
- > Pentium II, 200 MHz
- 64 MB RAM
- CD-ROM
- 640 x 480 Pixels, we recommend at least 1024 x 768 pixels
- Windows: 98, ME, NT, 2000, XP, Vista, 7
- Keyboard and mouse
- German, English, French, Spanish, Hungarian, Italian, Dutch, Polish, Russian, Swedish

### Features

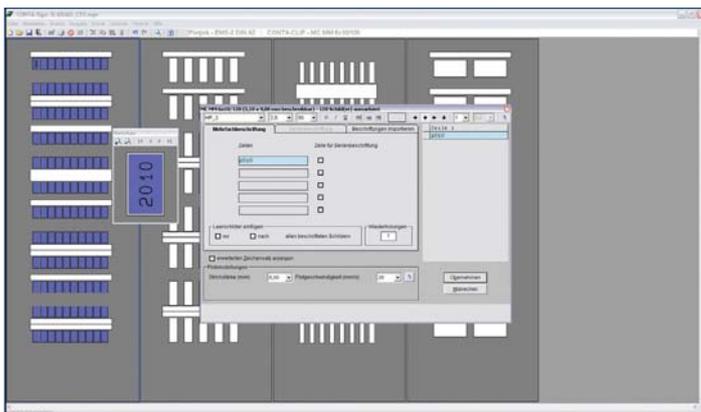
An import option is available for importing labelling specifications from project engineering software. Uncomplicated, retroactive processing of imported data in the software. Numerous user-friendly functions simplify manual input. Intuitive operation supports single, multiple and batch markings. Create individual markers using the marker design function. The pitch correction function guarantees faultless centering of labelling information even with large deviation in the material tolerances. Electronics symbols and special characters are included with the software. Open programming means that the markers of different manufacturers are installed in the software as standard



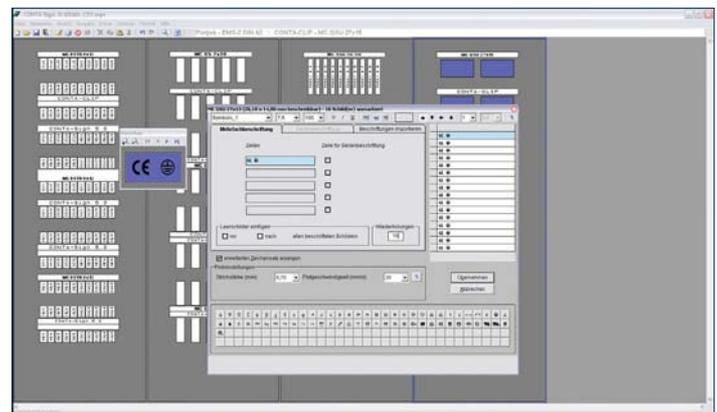
It is easy to select **CONTA-CLIP** markers or markers from other manufacturers



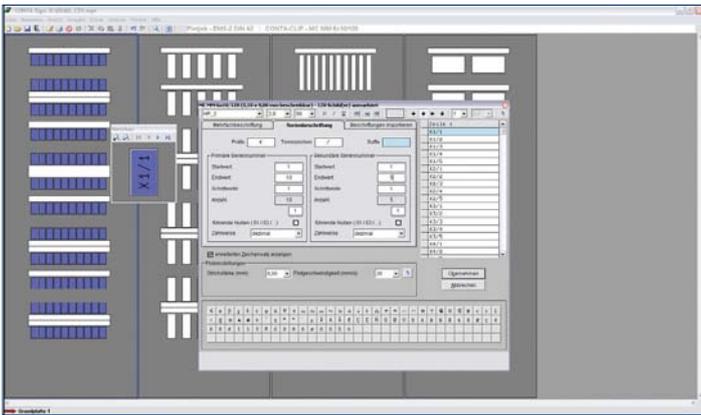
A variety of different markers in one project



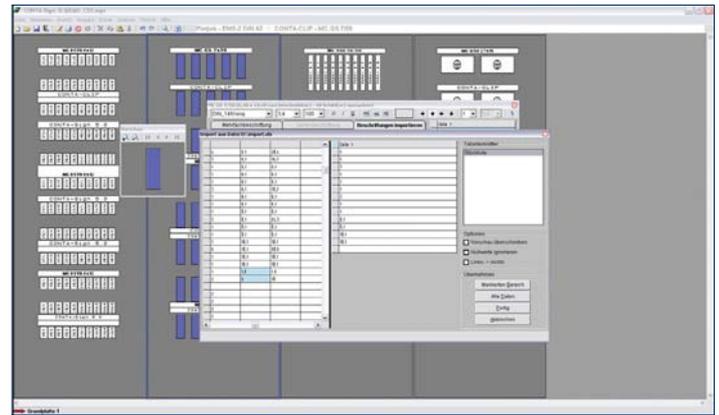
Number and letters are easy to enter



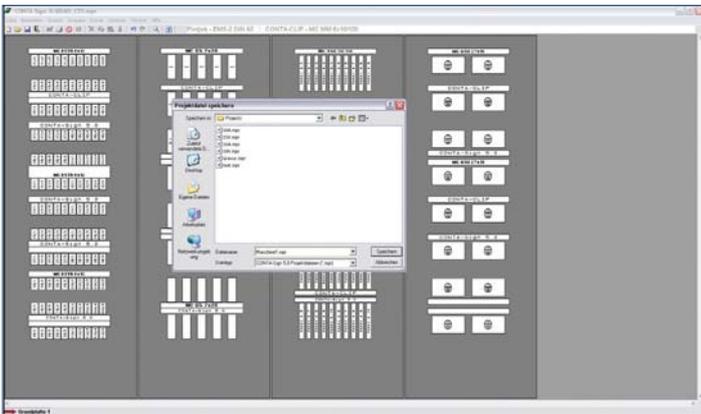
Many different electronic symbols are available by default



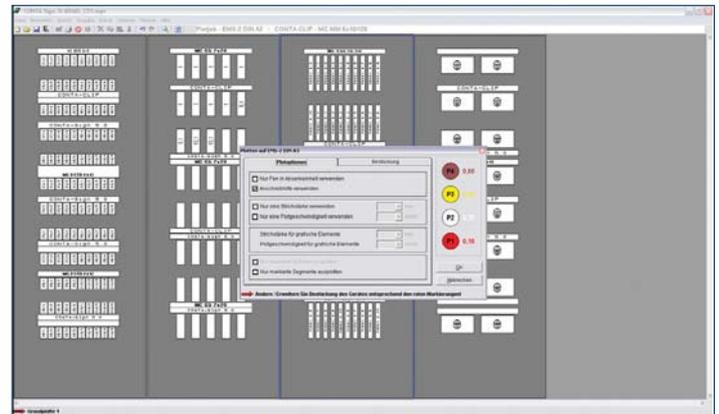
Batch entry



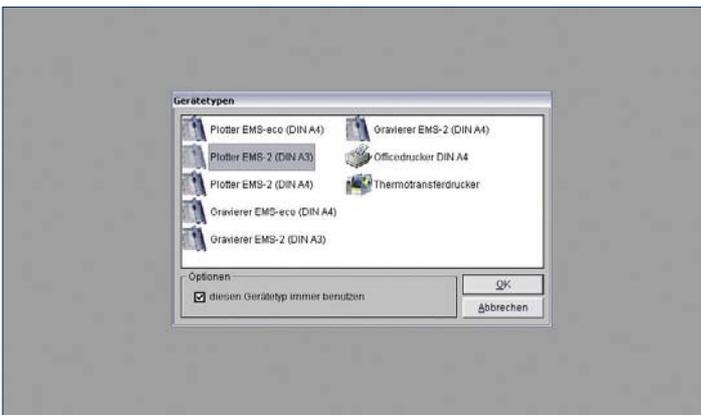
CAD/CAE, E-plan, plain text, Excel and Access formats can be imported



Projects can be created and saved



The EMS-2 plotter is easy to operate using the software



One software program for many different output devices

The user's manual contains a detailed description of the software functions. The manual can be downloaded for free from our web site at [www.conta-clip.com](http://www.conta-clip.com).

## CONTA-TOOL tool systems

**CONTA-CLIP** offers a wide selection of tools which help you to efficiently process wires and cables. This includes diagonal cutters and stripping tools for shortening and stripping individual wire cores. We also offer one-handed cable cutters for cutting cables as well as crimping tools for processing wire-end ferrules, cable lugs and (BNC/TNC) plugs. In addition, we provide the supplemental material – consumable hardware, the required screwdrivers and testing devices – that contributes to a successful installation/maintenance process.

### Cutting tools

Aluminium and copper cables should be cut with a clean, straight cut that does not deform them. **CONTA-CLIP** offers a wide variety of cutting tools and one-handed cable shears that require minimal manual force to accomplish the job properly. The one-handed cable shears feature a ratchet function with power transmission in order to help you avoid fatigue.



### Stripping tools

**STRIPFIX** stripping tools are customized precisely to the cross-section, insulation material and diameter of the wire or cable. They provide a safe, faultless and comfortable stripping action for wires ranging from 0.08 to 16 mm<sup>2</sup>. These tools are auto-adjusting and come with an integrated diagonal cutter.



### Screwdrivers

A wide variety of screwdrivers is available that has been customized to the **CONTA-CONNECT** range of products. They ensure that wires and cables are safely connected to **CONTA-CLIP** terminal blocks. These tools are available in insulated or uninsulated versions. They feature high-quality and long-lasting bits.



## CONTA-TOOL tool systems

### Crimping tools

You need special crimping tools tuned to your particular requirements when attaching wire-end ferrules, cable lugs and plugs (BNC/TNC).

The crimped connection between the crimp contact and the wire must be secure, homogenous and captive.

**CONTA-CLIP** crimping tools all feature an automatic locking mechanism that ensures consistent processing.



### Stamping and cutting tools

Stamping and cutting tools are used during the installation and assembly of switchgear cabinets. They can be used to cut DIN rails to the proper length and to stamp the required fastening holes. The wiring duct cutter can be used to cut wiring ducts of up to 125-mm width to shorter lengths as required.



### Materials

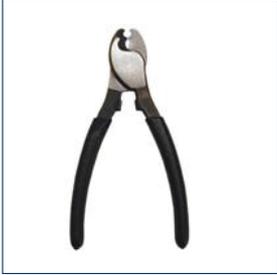
High-quality insulated wire-end ferrules which are CSA and CSAus certified comply with the toughest quality requirements. Various colour codes and lengths with cross-sections from 0.25 to 150 mm<sup>2</sup> are available.

Non-insulated wire-end ferrules, different types and cross-sections of crimping cable lugs and practical accessories (assortment boxes) for easy storage are also included in our product line.



Diagonal cutters and cable cutters

Diagonal cutters   Cable cutters		ESS 1	EKS 10	
				
		Electronic diagonal cutter	One-handed diagonal cutter	
<b>Type</b>				
Type		ESS 1	EKS 10	
<b>Cat. no.</b>		<b>1450.0</b>	<b>3163.0</b>	
<b>Size / Weight</b>				
Length, mm		130	165	
Weight, g		60	150	
<b>Technical data</b>				
Max. cutting lead, copper cable				
Solid wire (max. cross-section), mm <sup>2</sup>		1	10	
Stranded wire (max. cross-section), mm <sup>2</sup>				
Finely stranded wire (max. cross-section), mm <sup>2</sup>		1	35	
Max. wire diameter, mm		4	10	
<b>Description / Features</b>				
		Sharp and precise hardened-steel cutters for clean cuts through copper wire up to 1 mm <sup>2</sup> .	Cable cutters with heavy-duty blades of ductile alloyed steel. Sharp and precise for clean cuts, even through finely stranded wires.	
<b>Spare parts</b>				
Type				
<b>Cat. no.</b>				

Diagonal cutters   Cable cutters		EKS 10 eco	EKS 12 eco	EKS 17 eco
				
		One-handed diagonal cutter	One-handed diagonal cutter	One-handed diagonal cutter
<b>Type</b>				
Type		EKS 10 eco	EKS 12 eco	EKS 17 eco
<b>Cat. no.</b>		<b>17086.0</b>	<b>17087.0</b>	<b>17088.0</b>
<b>Size / Weight</b>				
Length, mm		165	210	238
Weight, g		195	296	450
<b>Technical data</b>				
Max. cutting lead, copper cable				
Solid wire (max. cross-section), mm <sup>2</sup>		16	16	16
Stranded wire (max. cross-section), mm <sup>2</sup>		16	25	35
Finely stranded wire (max. cross-section), mm <sup>2</sup>		25	25	95
Max. wire diameter, mm		10	12	17
<b>Description / Features</b>				
		For cutting copper and aluminum cables without crushing cable. Max. cutting performance with minimal hand exertion. Can be used for up to 10 mm.	For cutting copper and aluminum cables without crushing cable. Max. cutting performance with minimal hand exertion. Can be used for up to 12 mm.	For cutting copper and aluminum cables without crushing cable. Max. cutting performance with minimal hand exertion. Can be used for up to 17 mm.

KS 32	KS 34	KS 35 eco	KS 45 eco	
				
Cable cutter Ø 32 mm	Cable cutter Ø 34 mm	Cable cutter Ø 35 mm	Cable cutter Ø 45 mm	
<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	
KS 32 <b>1371.0</b>	KS 34 <b>17089.0</b>	KS 35 eco <b>3053.0</b>	KS 45 eco <b>3052.0</b>	
1	1	1	1	
250	205	260	235	
600	750	800	980	
25	25	25	45	
185	185	185	300	
240	240	240	300	
32	34	35	45	
For cutting copper and aluminium cables. One-handed operation. Easy to use. Can be released at any cutting position.	For cutting copper and aluminium cables. One-handed operation. Easy to use. Can be released at any cutting position.	For cutting copper and aluminium cables. One-handed operation. Easy to use. Can be released at any cutting position.	For cutting copper and aluminium cables. One-handed operation. Easy to use. Can be released at any cutting position.	
<b>Qty.</b>				
KS 32/EM <b>1372.0</b>				
1				
KS 52	KS 62P			
				
Cable cutter Ø 52 mm	Cable cutter Ø 62 mm			
<b>Qty.</b>	<b>Qty.</b>			
KS 52 <b>17090.0</b>	KS 62P <b>17091.0</b>			
1	1			
320	410			
1040	2000			
25	25			
400	750			
450	750			
52	62			
For cutting copper and aluminium cables. One-handed operation. Easy to use. Can be released at any cutting position.	For cutting copper and aluminium cables. One-handed operation. Easy to use. Can be released at any cutting position.			

**Self-adjusting cutting and stripping tools Stripfix / Stripfix-V / Stripfix-16**

The Stripfix tools are self-adjusting cutting and stripping tools for standard types of cable and conductors (stripping can be done 90% of the time without manually adjusting the tool). The insertion of easily swappable stripping cassettes allows you to perform precise stripping of a number of different insulation materials (e.g. PVC, PTFE).



**Convenience**

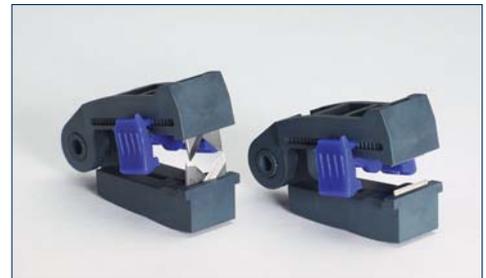
Due to the easy-to-swap stripping cassettes, almost all standard types of cable and conductors can be stripped. This enables these tools to provide the greatest capacity for stripping.



Stripping cassettes are easy to swap out

**Precision**

The ability to make precise adjustments ensures that thin insulation can be removed from wires without damage. After stripping, the stripping blade opens and remains open when the tool is removed to make it easy to discard the stripped coating.



V-shaped blades for stripping problematic insulation

**Ergonomic design**

Comfortable and friendly for the user – good ergonomics are ensured by the practical design, the soft main grip, the play-free activating grip, the optimized gripping width, the angled head and the light weight.



Cuts up to 10 mm<sup>2</sup>/8 AWG

**Cost-efficient**

Spare stripping cassettes and replacement blades are available.

**Reliable**

Tested over the course of more than 150,000 stripping processes. Encapsulated in extra strong, modern plastic (twice as strong compared to the nylon/PA6 standard).



Ergonomic construction with non-slip grips on both sides

## Stripping tools

Stripping tools	Stripfix	Stripfix-V	Stripfix-16	
				
	Stripping tool 10 mm <sup>2</sup>	Stripping tool 6 mm <sup>2</sup>	Stripping tool 16 mm <sup>2</sup>	
<b>Type</b>				
Type	Stripfix	Stripfix-V	Stripfix-16	
<b>Cat. no.</b>	<b>1074.0</b>	<b>3166.0</b>	<b>3167.0</b>	
<b>Qty.</b>	1	1	1	
<b>Size / Weight</b>				
Length, mm	191	191	191	
Weight, g	136	136	136	
<b>Max. stripping range, copper cable</b>				
Solid wire (max. cross-section), mm <sup>2</sup> / AWG	0.02-10 / 34-8	0.02-6 / 34-10	6-16 / 10-6	
Stranded (max. cross-section), mm <sup>2</sup> / AWG	0.02-10 / 34-8	0.02-6 / 34-10	6-16 / 10-6	
Finely stranded (max. cross-section), mm <sup>2</sup> / AWG	0.02-10 / 34-8	0.02-6 / 34-10	6-10 / 10-6	
<b>Max. cutting lead, copper cable</b>				
Solid wire (max. cross-section), mm <sup>2</sup> / AWG	1.5 / 16	1.5 / 16	1.5 / 16	
Stranded (max. cross-section), mm <sup>2</sup> / AWG	-	-	-	
Finely stranded (max. cross-section), mm <sup>2</sup>	10 / 8	10 / 8	10 / 8	
<b>Description / Features</b>				
	For stripping CU and AL wires: PVC-insulated wire from 0.02-10 mm <sup>2</sup> (AWG 34-8) Cutting range: up to 10 mm <sup>2</sup> finely stranded (AWG 8)	For stripping CU and AL wires: Insulated wire from 0.02-6 mm <sup>2</sup> (AWG 34-10) Cutting range: up to 10 mm <sup>2</sup> finely stranded (AWG 8)	For stripping CU and AL wires: PVC-insulated wire from 6-16 mm <sup>2</sup> (AWG 10-6) Cutting range: up to 10 mm <sup>2</sup> finely stranded (AWG 8)	
<b>Spare parts</b>				
Type of replacement blade	EKGK	EKVK	EKVK/16	
<b>Cat. no.</b>	<b>1076.0</b>	<b>1077.0</b>	<b>1408.0</b>	
<b>Qty.</b>	1	1	1	
Stripping tools	KM 25	KM 35		
				
	Stripping blade Ø 25 mm	Stripping blade Ø 35 mm		
<b>Type</b>				
Type	KM 25	KM 35		
<b>Cat. no.</b>	<b>17092.0</b>	<b>17093.0</b>		
<b>Qty.</b>	1	1		
<b>Size / Weight</b>				
Length, mm	152	168		
Weight, g	161	166		
<b>Technical data</b>				
Max. cutting lead, copper cable				
Solid wire (max. cross-section), mm <sup>2</sup> / AWG	-	-		
Stranded (max. cross-section), mm <sup>2</sup> / AWG	-	-		
Finely stranded (max. cross-section), mm <sup>2</sup> / AWG	-	-		
Max. wire diameter, mm	25	35		
<b>Description / Features</b>				
	Professional stripping tools for large round cables up to Ø 25 mm. Can cut circular, spiral and lengthwise. Stripping blade can be adjusted for thickness of insulation.	Professional stripping tools for large round cables up to Ø 35 mm. Can cut circular, spiral and lengthwise. Stripping blade can be adjusted for thickness of insulation.		

Screwdrivers

Screwdrivers	SDI	SDB	SDIK	SDK
				
	Screwdriver with insulated shaft	Screwdriver	Screwdriver with insulated shaft	Screwdriver
Type	Qty.	Qty.	Qty.	Qty.
Type	SDI 0.4x2.5	SDB 0.4x2.0	SDIK 1.0x80	SDK 1.0x80
<b>Cat. no.</b>	<b>1081.0</b>	<b>3164.0</b>	<b>2278.0</b>	<b>2289.0</b>
Total length / Blade length, mm	160 / 75	150 / 75	165 / 80	170 / 80
Weight, g	29	26	58	58
Type	SDI 0.6x3.5	SDB 0.4x2.5	SDIK 2.0x100	SDK 2.0x100
<b>Cat. no.</b>	<b>1082.0</b>	<b>3169.0</b>	<b>2279.0</b>	<b>2290.0</b>
Total length / Blade length, mm	185 / 100	150 / 75	205 / 100	205 / 100
Weight, g	42	26	79	93
Type	SDI 1.0x5.5	SDB 0.5x3.0		
<b>Cat. no.</b>	<b>1083.0</b>	<b>1085.0</b>		
Total length / Blade length, mm	230 / 125	160 / 75		
Weight, g	79	30		
Type	SDI 1.2x6.5	SDB 0.6x3.5		
<b>Cat. no.</b>	<b>1084.0</b>	<b>1086.0</b>		
Total length / Blade length, mm	250 / 150	185 / 100		
Weight, g	100	34		
Type		SDB 0.8x4,0		
<b>Cat. no.</b>		<b>1087.0</b>		
Total length / Blade length, mm		220 / 125		
Weight, g		52		
Type		SDB 1.2x6.5		
<b>Cat. no.</b>		<b>1088.0</b>		
Total length / Blade length, mm		250 / 150		
Weight, g		104		
Description / Features	With insulated shaft (acc. to VDE 0680 part 2)	With bare bit	With insulated shaft (acc. to DIN 7438/VDE 0680/2)	With bare bit

Screwdrivers	ISKS			
				
	Allen key socket wrench			
Type	Qty.			
Type	ISKS 5			
<b>Cat. no.</b>	<b>2818.0</b>			
Total length / Blade length, mm	130 / 100			
Weight, g	57			
Type	ISKS 6			
<b>Cat. no.</b>	<b>2772.0</b>			
Total length / Blade length, mm	130 / 100			
Weight, g	66			
Type	ISKS 8			
<b>Cat. no.</b>	<b>2773.0</b>			
Total length / Blade length, mm	130 / 100			
Weight, g	90			
Description / Features	With bare bit			

# Crimping tools

## Crimping tool set

The crimping tool set has a quick interlock feature and is extremely sturdy and reliable. Just one tool is required instead of many separate tools – thanks to the swappable crimp inserts.

- Basic crimping tools with “easy-change” quick interlock
- All crimp inserts are easy to swap out – without knurled screws and without tools
- Basic crimping tools with automatic locking and unlocking mechanisms to ensure complete crimps
- Crimping pressure can be adjusted
- Dual-component hand grip
- Nickel-plated, matt tool frame
- Many different crimp inserts available for the basic crimping tool
- Available as complete tool set with six crimping inserts

## PZ TF plus



Crimping tool with easy-change quick interlock



Many different crimping inserts available for the basic crimping tool

## PZ TF plus Set



Crimp inserts are easy to change



Complete crimping tool set

### Type

Type  
Cat. no.

PZ TF plus  
17094.0

PZ TF plus Set  
17095.0

### Size / Weight

Length, mm

245

245

Weight, g

584

584

### Included in delivery

Tool

Crimping tool without crimp inserts

Crimping tool

Crimp inserts

Type 1 insert WF 16 EN

-

for wire-end ferrules, 0.25 - 16.0 mm<sup>2</sup>

Type 2 insert WF 50 EN

-

for wire-end ferrules, 25.0 - 50.0 mm<sup>2</sup>

Type 3 insert IT 6

-

for insulated cable lugs, 0.5 - 6.0 mm<sup>2</sup>

Type 4 insert NIT 10

-

for non-insulated crimp lugs, 0.5 - 10.0 mm<sup>2</sup>

Type 5 insert OB 2.5P

-

for spade plugs, with opened or pre-rolled crimping claw, 0.5 - 2.5 mm<sup>2</sup>

Type 6 insert C 59

-

for coax plug RG58, 59, 62, 71

## Crimp inserts

### Type 1



Crimping inserts, wire-end ferrules

### Type 2



Crimping inserts, wire-end ferrules

### Type 3



Crimp inserts, cable lugs

### Type 4



Crimp inserts, crimp lug

### Type

Type  
Cat. no.

Qty.  
Insert WF 16 EN  
17096.0 1

Qty.  
Insert WF 50 EN  
17096.1 1

Qty.  
Insert IT6  
17096.2 1

Qty.  
Insert NIT 10  
17096.3 1

### Description / Features

Insert for wire-end ferrules without collars.  
Wire-end ferrules: 0.5-16 mm<sup>2</sup>  
Crimp shape acc. to EN 60947-1

Insert for wire-end ferrules without collars.  
Wire-end ferrules: 25-50 mm<sup>2</sup>  
Crimp shape acc. to EN 60947-1

Insert for insulated cable lugs, 0.5 - 6 mm<sup>2</sup>

Insert for non-insulated crimp lugs, 0.5 - 10.0 mm<sup>2</sup>  
DIN 46234

## Crimp inserts

### Type 5



Crimp insert, spade plug

### Type 6



Crimp insert, coax plug

### Type

Type  
Cat. no.

Qty.  
Insert OB 2.5 P  
17096.4 1

Qty.  
Insert C 59  
17096.5 1

### Description / Features

Insert for spade plug with opened or pre-rolled crimping claw, from 0.5 - 2.5 mm<sup>2</sup> (plug width of 6.3+ 4.8 mm)

Insert for coax plug BNC/TNC. Coax cable RG 58, RG 59, RG 62, RG 71, hex size: 6.50 / 5.41 / 1.72 mm

**Crimping tools**

Crimping tools for wire-end ferrules		PZD 3	PZU 6	PZU S	PZU 16
					
		Crimping tool for up to 6 mm <sup>2</sup>	Crimping tool for up to 6 mm <sup>2</sup>	Crimping tool for up to 6 mm <sup>2</sup>	Crimping tool 10+16 mm <sup>2</sup>
Type		Qty.	Qty.	Qty.	Qty.
Type	PZD 3		PZU 6	PZU 6/S	PZU 16
Cat. no.	<b>3135.0</b>	1	<b>1100.0</b>	<b>3055.0</b>	<b>1465.0</b>
Size / Weight					
Length, mm		197	210	220	250
Weight, g		370	500	560	600
Technical data					
Crimping range, mm <sup>2</sup> / AWG		0.5-6 / 2-10	0.14-6 / 26-10	0.14-6 / 26-10	10+16 / 7-6
Crimp shape		Square crimp	Trapezoidal crimp	Trapezoidal crimp	Trapezoidal crimp
Description / Features		For crimping wire-end ferrules with or without plastic collars. Cross-section range: 0.5-6 mm <sup>2</sup> (AWG 2-10). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.	For crimping wire-end ferrules with or without plastic collars. Cross-section range: 0.5-6 mm <sup>2</sup> (AWG 2-10). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.	For crimping wire-end ferrules with or without plastic collars. Cross-section range: 0.14-6 mm <sup>2</sup> (AWG 26-10). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.	For crimping wire-end ferrules with or without plastic collars. Cross-section range: 10 – 16 mm <sup>2</sup> (AWG 7-6). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.
Spare parts					
Type					
Cat. no.					

Crimping tools for wire-end ferrules		PZU 16 eco	PZU 25	PZU 35	PZU 50
					
		Crimping tool for up to 16 mm <sup>2</sup>	Crimping tool for 10 – 25 mm <sup>2</sup>	Crimping tool 25 + 35 mm <sup>2</sup>	Crimping tool 50 mm <sup>2</sup>
Type		Qty.	Qty.	Qty.	Qty.
Type	PZU 16 eco		PZU 25	PZU 35	PZU 50
Cat. no.	<b>3056.0</b>	1	<b>3057.0</b>	<b>1466.0</b>	<b>1467.0</b>
Size / Weight					
Length, mm		233	220	225	225
Weight, g		540	560	540	550
Technical data					
Crimping range, mm <sup>2</sup> / AWG		0.5-16 / 20-5	10-25 / 7-3	25+35 / 3+2	50 / 0
Crimp shape		Trapezoidal crimp	Square crimp	Trapezoidal crimp	Trapezoidal crimp
Description / Features		For crimping wire-end ferrules with or without plastic collars. Cross-section range: 0.5-16 mm <sup>2</sup> (AWG 20-5). Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring.	For crimping wire-end ferrules with or without plastic collars. Cross-section range: 10, 16 and 25 mm <sup>2</sup> (AWG 7; 5 and 3). Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring. High-quality industrial design.	For crimping wire-end ferrules with or without plastic collars. Cross-section range: 25 + 35 mm <sup>2</sup> (AWG 3-2). Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring. High-quality industrial design.	For crimping wire-end ferrules with or without plastic collars. Cross-section range: 50 mm <sup>2</sup> (AWG 0). Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring. High-quality industrial design.
Spare parts					
Type					
Cat. no.					

## Crimping tools

Crimping tools	PZI 6	PZI 6 eco	PZ RG	PZ RG eco
				
	Crimping tool, cable lugs	Crimping tool, cable lugs	Crimping tool Coax connector	Crimping tool
<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Type	PZI 6	PZI 6 eco	PZ RG	PZ RG eco
<b>Cat. no.</b>	<b>1468.0</b>	<b>3059.0</b>	<b>1474.0</b>	<b>3060.0</b>
<b>Size / Weight</b>				
Length, mm	225	225	225	225
Weight, g	480	540	480	540
<b>Technical data</b>				
Crimping range, mm <sup>2</sup> / AWG	0.5-6	0.5-6		
Crimp shape	Oval crimp	Oval crimp	Hexagonal crimp	Hexagonal crimp
<b>Description / Features</b>	For non-insulated crimp lugs in shape of ring, fork or spade. Application areas: Profile 1: 0.5-1.5 mm <sup>2</sup> (red) Profile 2: 1.5-2.5 mm <sup>2</sup> (blue) Profile 3: 4.0-6.0 mm <sup>2</sup> (yellow). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.	For non-insulated crimp lugs in shape of ring, fork or spade. Application areas: Profile 1: 0.5-1.5 mm <sup>2</sup> (red) Profile 2: 1.5-2.5 mm <sup>2</sup> (blue) Profile 3: 4.0-6.0 mm <sup>2</sup> (yellow). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring.	For BNC - TNC coax connectors (cable types RG 58, 59, 62 and 71). Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring. High-quality industrial design.	For crimping coax plugs such as BNC and TNC with cables RG 55, 58, 59, 62, 174, 8279. Profile: 6.48/ 5.4/ 4.76/ 1.72 mm. Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring.
<b>Spare parts</b>				
Type				
<b>Cat. no.</b>				

Crimping tools	PZF 6	PZN 10	PZN 10 eco	MPS Tool M
				
	Crimping tool crimp cable lug	Crimping tool crimp cable lug	Crimping tool crimp cable lug	Cable tie tool for Steel cable ties
<b>Type</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>	<b>Qty.</b>
Type	PZF 6	PZN 10	PZN 10 eco	MPS Tool M
<b>Cat. no.</b>	<b>1472.0</b>	<b>1470.0</b>	<b>3058.0</b>	<b>3826.0</b>
<b>Size / Weight</b>				
Length, mm	225	225	225	178
Weight, g	480	480	540	600
<b>Technical data</b>				
Crimping range, mm <sup>2</sup> / AWG	0.1-6	0.1-10	1-10	-
Crimp shape	F-Crimp	Indent crimp	Indent crimp	-
<b>Description / Features</b>	For non-insulated crimp cable lugs with spade shape. Application areas: Profile 1: 0.1-0.5 mm <sup>2</sup> (AWG 26-20) Profile 2: 0.5-2.5 mm <sup>2</sup> (AWG 20-14) Profile 3: 4.0-6.0 mm <sup>2</sup> (AWG 12-10) Profile 4: 0.1-0.5 mm <sup>2</sup> (AWG 26 - 20). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.	For non-insulated crimp cable lugs with ringed and forked shapes. Application areas: Profile 1: 0.1-0.5 mm <sup>2</sup> (AWG 26-20) Profile 2: 0.5-2.5 mm <sup>2</sup> (AWG 20-14) Profile 3: 4.0-6.0 mm <sup>2</sup> (AWG 12-10) Profile 4: 10 mm <sup>2</sup> (AWG 7). Easy to use, auto-lock for proper and complete crimping. Wire entry from above. Self-opening with integrated spring. High-quality industrial design.	For non-insulated crimp lugs in shape of ring, fork or spade. Application areas: 1.0-10 mm <sup>2</sup> (AWG 16-7). Easy to use, auto-lock for proper and complete crimping. Wire entry from side. Self-opening with integrated spring.	Manual cable tie tools for steel cable ties <ul style="list-style-type: none"> <li>• Sturdy construction</li> <li>• Easy to use</li> <li>• Improved head ensures easy and fast positioning – even when space is cramped</li> </ul>
<b>Spare parts</b>				
Type				
<b>Cat. no.</b>				

## DIN rail cutters and stamping tools

### DIN rail cutters and stamping tools

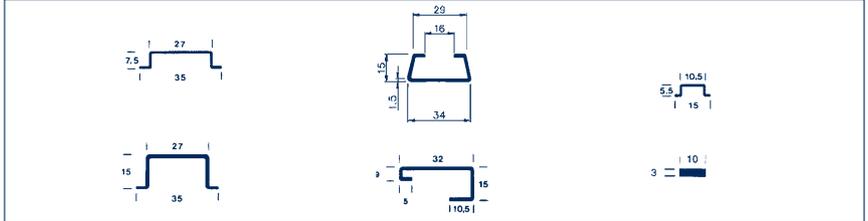
The **TS-PSS** DIN rail cutter and stamping tool is designed for manually shortening and stamping holes in DIN rails (TS 15, TS 35, TS 32) and busbars (10 x 3 mm). The tool can be mounted on a workbench or similar working surface. It can also stamp holes of varying dimensions in customized positions.

**Features:**

- Minimal effort
- Quick, quiet and burr-free cross-cuts
- Holes can be stamped out in any position
- Cutting disk can be re-sharpened or easily replaced

Lengthwise and crosswise hole stamps are included in the delivery.

### TS-PSS 2



### Type

Type

Cat. no.

### Technical data

Lever length, mm

Length limit

Weight, kg

### Accessories / Replacements

Replacement stamp + die, 12 x 6 mm, lengthwise slot

Cat. no.

Replacement stamp + die, 12 x 6 mm, crosswise slot

Cat. no.

Replacement stamp + die, Ø 5.5 mm, round hole

Cat. no.

Replacement stamp + die, Ø 6.0 mm, round hole

Cat. no.

TS-PSS 2

**3894.0**

1000

1000 mm, metric and inch

14.2

SMSST/L 12x6mm

**3898.0**

SMSST/L 12x6 mm

**3898.1**

SMSST/R 6.5 mm

**3898.2**

SMSST/R 6 mm

**3898.3**

Qty.

1

1

1

1

1

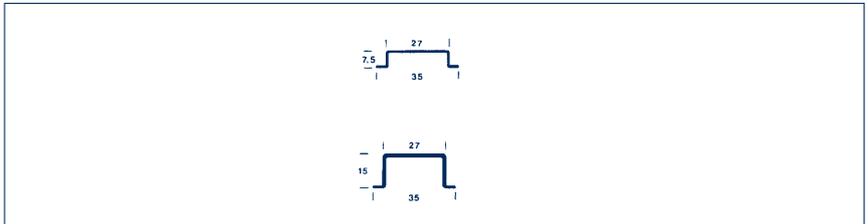
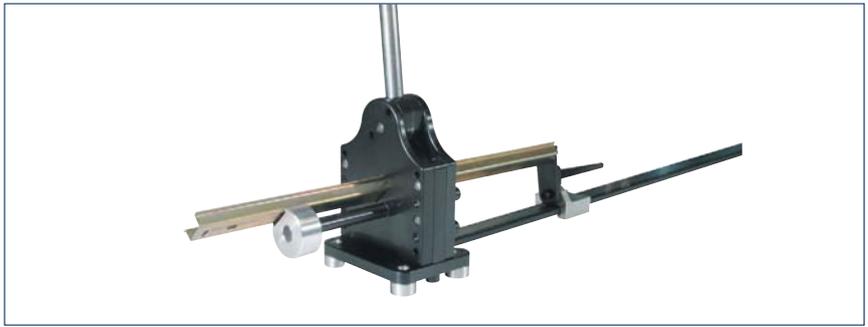
### TS-PS eco

The new **TS-PS eco** DIN rail cutter is a manual tool designed for cutting DIN TS 35 rails into shorter sections. The TS-PS eco has a quiet and quick cutting process which leaves no burrs on the rail. The result is a fine, straight cut that does not result in any bending of the rail. The tool can be attached to a work bench or mounted at a workstation.

**Features:**

- Minimal effort
- Quick, quiet and burr-free cross-cuts
- Maintenance-free
- Versatile: metric and inch scale adjustments
- Cutting plate can be re-sharpened or easily replaced

### TS-PS eco



### Rail dimensions

### Type

Type

Cat. no.

### Technical data

Lever length, mm

Length limit

Weight, kg

### Accessories for the TS-PSS 2 and TS-PS eco

DIN rails are listed starting on page 268.

TS-PS eco

**3895.0**

1000

1000 mm, metric and inch

8.6

Qty.

1

# Wiring duct cutter

## Wiring duct cutter

The **VKS** wiring duct cutter is a tool for manually cutting wiring ducts of up to 125 mm in width. The tool can be attached to a work bench or mounted at a workstation.

### Features:

- 90° precise-angle cutting
- Quick, quiet and burr-free cutting
- Minimal force needed for cut
- Maintenance-free

## VK-S



### Type

Type

**Cat. no.**

### Technical data

Lever length, mm

Length limit

Weight, kg

Wall thickness, mm

Channel width, mm

### Accessories / Replacements

Replace blade

**Cat. no.**

Qty.

VK-S

**3897.0**

1

500

1000 mm, metric and inch

9.1

2.5

125

VK-S/EM

**3899.0**

1

Wire-end ferrules with plastic collars

Wire-end ferrules with plastic collar 

CONTA-CLIP Standard

	Cross-section, mm <sup>2</sup>		Stripping length, mm <sup>2</sup>	Dimensions, mm						Qty.	Type	Colour	Cat. no.	Qty.
	AWG			L <sub>1</sub>	L <sub>2</sub>	d <sub>1</sub>	S <sub>1</sub>	d <sub>2</sub>	S <sub>2</sub>					
	0.25	24	8	10	6	0.85	0.15	1.8	0.25	500	●	H 0.25/10 LB bright blue	<b>2620.0</b>	500
	0.25	24	10	12	8	0.85	0.15	1.8	0.25	500	●	H 0.25/12 LB bright blue	<b>2621.0</b>	500
	0.34	22	8	10	6	0.85	0.15	2.0	0.25	500	●	H 0.34/10 CY cyan	<b>2622.0</b>	500
	0.34	22	10	12	8	0.85	0.15	2.0	0.25	500	●	H 0.34/12 CY cyan	<b>2623.0</b>	500
	0.5	20	8	12	6	1.0	0.15	2.6	0.25	500	●	H 0.5/12 OG orange	<b>2397.0</b>	500
	0.5	20	10	14	8	1.0	0.15	2.6	0.25	500	●	H 0.5/14 OG orange	<b>2201.0</b>	500
	0.5	20	12	16	10	1.0	0.15	2.6	0.25	500	●	H 0.5/16 OG orange	<b>3116.0</b>	500
	0.75	18	8	12	6	1.2	0.15	2.8	0.25	500	○	H 0.75/12 WH white	<b>2398.0</b>	500
	0.75	18	10	14	8	1.2	0.15	2.8	0.25	500	○	H 0.75/14 WH white	<b>2202.0</b>	500
	0.75	18	12	16	10	1.2	0.15	2.8	0.25	500	○	H 0.75/16 WH white	<b>3117.0</b>	500
	0.75	18	14	18	12	1.2	0.15	2.8	0.25	500	○	H 0.75/18 WH white	<b>3118.0</b>	500
	1	1	8	12	6	1.4	0.15	3.0	0.25	500	●	H 1.0/12 YE yellow	<b>2399.0</b>	500
	1	1	10	14	8	1.4	0.15	3.0	0.25	500	●	H 1.0/14 YE yellow	<b>2203.0</b>	500
	1	1	12	16	10	1.4	0.15	3.0	0.25	500	●	H 1.0/16 YE yellow	<b>3119.0</b>	500
	1	7	14	18	12	1.4	0.15	3.0	0.25	500	●	H 1.0/18 YE yellow	<b>3120.0</b>	500
	1.5	16	10	14	8	1.7	0.15	3.5	0.25	500	●	H 1.5/14 RD red	<b>2204.0</b>	500
	1.5	16	12	16	10	1.7	0.15	3.5	0.25	500	●	H 1.5/16 RD red	<b>2400.0</b>	500
	1.5	16	14	18	12	1.7	0.15	3.5	0.25	500	●	H 1.5/18 RD red	<b>2814.0</b>	500
	1.5	16	20	24	18	1.7	0.15	3.5	0.25	500	●	H 1.5/24 RD red	<b>2205.0</b>	500
	2.5	14	10	15	8	2.2	0.15	4.2	0.25	500	●	H 2.5/14-D BU blue	<b>2845.0</b>	500
	2.5	14	14	19	12	2.2	0.15	4.2	0.25	500	●	H 2.5/18-D BU blue	<b>2846.0</b>	500
	2.5	14	20	25	18	2.2	0.15	4.2	0.25	500	●	H 2.5/24-D BU blue	<b>2847.0</b>	500
	4	12	12	18	10	2.8	0.2	4.8	0.30	500	○	H 4,0/18-D GR grey	<b>2848.0</b>	500
	4	12	14	20	12	2.8	0.2	4.8	0.30	500	○	H 4,0/20-D GR grey	<b>2849.0</b>	500
	4	12	20	26	18	2.8	0.2	4.8	0.30	500	○	H 4,0/26-D GR grey	<b>2850.0</b>	500
	6	10	14	20	12	3.5	0.2	6.3	0.30	100	●	H 6,0/20 BK black	<b>2210.0</b>	100
	6	10	20	26	18	3.5	0.2	6.3	0.30	100	●	H 6,0/26 BK black	<b>2211.0</b>	100
	10	8	15	22	12	4.5	0.2	7.6	0.40	100	○	H 10,0/22 IV ivory	<b>2212.0</b>	100
	10	8	21	28	18	4.5	0.2	7.6	0.40	100	○	H 10,0/28 IV ivory	<b>2213.0</b>	100
	16	6	15	22	12	5.8	0.2	8.8	0.40	100	●	H 16,0/22 GN green	<b>2214.0</b>	100
	16	6	21	28	18	5.8	0.2	8.8	0.40	100	●	H 16,0/28 GN green	<b>2215.0</b>	100
	25	4	18	30	16	7.3	0.2	11.2	0.40	50	●	H 25,0/30 BN brown	<b>2267.0</b>	50
	25	4	24	36	22	7.3	0.2	11.2	0.40	50	●	H 25,0/36 BN brown	<b>2272.0</b>	50
	35	2	19	30	16	8.3	0.2	12.7	0.40	50	○	H 35,0/30 BG beige	<b>2276.0</b>	50
	35	2	21	3	18	8.3	0.2	12.7	0.40	50				50
	35	2	28	39	25	8.3	0.2	12.7	0.40	50	○	H 35,0/39 BG beige	<b>2390.0</b>	50
	50	1	26	36	20	10.3	0.3	15.0	0.50	50	●	H 50,0/36 OL olive	<b>2500.0</b>	50
	50	1	31	41	25	10.3	0.3	15.0	0.50	50				50
	70*	2/0	26	37	21	12.7	0.35	16.0	0.60	25	●	H 70,0/37 YE yellow	<b>2786.0</b>	25
	95*	3/0	31	44	25	14.7	0.35	18.0	0.60	25	●	H 95,0/44 RD red	<b>2787.0</b>	25
	120*	4/0	36	50	30	16.5	0.5	21.0	0.70	25	●	H 120,0/50 BU blue	<b>2788.0</b>	25
	150*	250 MCM	38	54	32	18.5	0.5	23.5	0.75	25	●	H 150,0/54 YE yellow	<b>2789.0</b>	25

\* No CSA-US approval

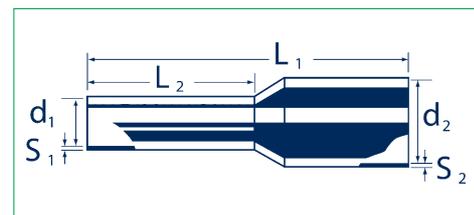
### DIN Standard

Type	Colour	Cat. no.	Qty.
○ H 0.5/12-D WH	white	<b>2863.0</b>	500
○ H 0.5/14-D WH	white	<b>2864.0</b>	500
○ H 0.5/16-D WH	white	<b>2865.0</b>	500
● H 0.75/12-D GR	grey	<b>2866.0</b>	500
● H 0.75/14-D GR	grey	<b>2867.0</b>	500
● H 0.75/16-D GR	grey	<b>2868.0</b>	500
● H 0.75/18-D GR	grey	<b>2869.0</b>	500
● H 1.0/12-D RD	red	<b>2870.0</b>	500
● H 1.0/14-D RD	red	<b>2871.0</b>	500
● H 1.0/16-D RD	red	<b>2872.0</b>	500
● H 1.0/18-D RD	red	<b>2840.0</b>	500
● H 1.5/14-D BK	black	<b>2841.0</b>	500
● H 1.5/16-D BK	black	<b>2842.0</b>	500
● H 1.5/18-D BK	black	<b>2843.0</b>	500
● H 1.5/24-D BK	black	<b>2844.0</b>	500
● H 2.5/14-D BU	blue	<b>2845.0</b>	500
● H 2.5/18-D BU	blue	<b>2846.0</b>	500
● H 2.5/24-D BU	blue	<b>2847.0</b>	500
○ H 4,0/18-D GR	grey	<b>2848.0</b>	500
○ H 4,0/20-D GR	grey	<b>2849.0</b>	500
○ H 4,0/26-D GR	grey	<b>2850.0</b>	500
● H 6,0/20-D YE	yellow	<b>2851.0</b>	100
● H 6,0/26-D YE	yellow	<b>2852.0</b>	100
● H 10,0/22-D RD	red	<b>2853.0</b>	100
● H 10,0/28-D RD	red	<b>2854.0</b>	100
● H 16,0/22-D BU	blue	<b>2855.0</b>	100
● H 16,0/28-D BU	blue	<b>2856.0</b>	100
● H 25,0/30-D YE	yellow	<b>2857.0</b>	50
● H 25,0/36-D YE	yellow	<b>2858.0</b>	50
● H 35,0/30-D RD	red	<b>2859.0</b>	50
● H 35,0/32-D RD	red	<b>3121.0</b>	50
● H 35,0/39-D RD	red	<b>2860.0</b>	50
● H 50,0/36-D BU	blue	<b>2861.0</b>	50
● H 50,0/41-D BU	blue	<b>3122.0</b>	50

### T Standard

Type	Colour	Cat. no.	Qty.
● H 0.25/10-T YE	yellow	<b>3123.0</b>	500
● H 0.25/12-T YE	yellow	<b>3124.0</b>	500
● H 0.34/10-T GN	green	<b>3125.0</b>	500
● H 0.34/12-T GN	green	<b>3126.0</b>	500
○ H 0.5/12-D WH	white	<b>2863.0</b>	500
○ H 0.5/14-D WH	white	<b>2864.0</b>	500
○ H 0.5/16-D WH	white	<b>2865.0</b>	500
● H 0.75/12-T BU	blue	<b>3127.0</b>	500
● H 0.75/14-T BU	blue	<b>1059.0</b>	500
● H 0.75/16-T BU	blue	<b>3128.0</b>	500
● H 0.75/18-T BU	blue	<b>3129.0</b>	500
● H 1.0/12-D RD	red	<b>2870.0</b>	500
● H 1.0/14-D RD	red	<b>2871.0</b>	500
● H 1.0/16-D RD	red	<b>2872.0</b>	500
● H 1.0/18-D RD	red	<b>2840.0</b>	500
● H 1.5/14-D BK	black	<b>2841.0</b>	500
● H 1.5/16-D BK	black	<b>2842.0</b>	500
● H 1.5/18-D BK	black	<b>2843.0</b>	500
● H 1.5/24-D BK	black	<b>2844.0</b>	500
○ H 2.5/14-T GR	grey	<b>1069.0</b>	500
○ H 2.5/18-T GR	grey	<b>3130.0</b>	500
○ H 2.5/24-T GR	grey	<b>1089.0</b>	500
● H 4,0/18-T OG	orange	<b>2041.0</b>	500
● H 4,0/20-T OG	orange	<b>3131.0</b>	500
● H 4,0/26-T OG	orange	<b>2073.0</b>	500
● H 6,0/20-T GN	green	<b>2130.0</b>	100
● H 6,0/26-T GN	green	<b>2133.0</b>	100
● H 10,0/22-T BN	brown	<b>2134.0</b>	100
● H 10,0/28-T BN	brown	<b>2144.0</b>	100
○ H 16,0/22-T IV	ivory	<b>2145.0</b>	100
○ H 16,0/28-T IV	ivory	<b>2510.0</b>	100
● H 25,0/30-T BK	black	<b>2511.0</b>	50
● H 25,0/36-T BK	black	<b>3132.0</b>	50

If the individual strands at the ends of finely stranded wires need to be protected due to frequent connecting, then **CONTA-CLIP** wire end ferrules are an ideal solution. The ferrules must be crimped gas-tight with the ends of the wires. A simply distortion caused by the clamping force is not adequate. The wire-end ferrules can be crimped easily and securely with **CONTA-CLIP** crimping pliers. The resulting connections function properly both electrically and mechanically.



Funnel feed-in made of polypropylene. Heat resistant up to 120°C. For wires from 0.5 – 150 mm<sup>2</sup>. Material: E-Cu/A-Cu, galvanically tin-plated.

## Wire-end ferrules with plastic collars

### Wire-end ferrules for two wires with plastic collars



	Cross-section, mm <sup>2</sup>		Stripping length, mm <sup>2</sup>		Dimensions, mm						Qty.
	mm <sup>2</sup>	AWG	mm <sup>2</sup>	mm <sup>2</sup>	L <sub>1</sub>	L <sub>2</sub>	d <sub>1</sub>	S <sub>1</sub>	S <sub>2</sub>	A	
	2x 0.5	2x 20	11	14	8	1.4	0.15	0.3	5.0	3.0	500
	2x 0.5	2x 20	13	16	16	1.4	0.15	0.3	5.0	3.0	500
	2x 0.5	2x 20	15	18	12	1.4	0.15	0.3	5.0	3.0	500
	2x 0.75	2x 18	11	14	8	1.7	0.15	0.3	5.5	3.0	500
	2x 0.75	2x 18	13	16	10	1.7	0.15	0.3	5.5	3.0	500
	2x 0.75	2x 18	21	24	18	1.7	0.15	0.3	5.5	3.0	500
	2x 1	2x 17	12	15	8	2.0	0.15	0.3	5.8	3.2	500
	2x 1	2x 17	16	19	12	2.0	0.15	0.3	5.8	3.2	500
	2x 1	2x 17	22	25	18	2.0	0.15	0.3	5.8	3.2	500
	2x 1.5	2x 16	11	16	8	2.2	0.15	0.3	6.5	3.6	500
	2x 1.5	2x 16	15	20	12	2.2	0.15	0.3	6.5	3.6	500
	2x 1.5	2x 16	21	26	18	2.2	0.15	0.3	6.5	3.6	100
	2x 2.5	2x 14	13	19	10	2.8	0.15	0.4	8.0	4.5	500
	2x 2.5	2x 14	15	21	12	2.8	0.15	0.4	8.0	4.5	500
	2x 2.5	2x 14	21	27	18	2.8	0.15	0.4	8.0	4.5	100
	2x 4	2x 12	15	22	12	3.5	0.20	0.5	9.0	5.2	100
	2x 4	2x 12	21	28	18	3.5	0.20	0.5	9.0	5.2	100
	2x 6	2x 10	20	23	12	4.5	0.20	0.5	11.4	6.2	100
	2x 6	2x 10	24	29	18	4.5	0.20	0.5	11.4	6.2	100
	2x 10	2x 8	17	24	12	5.8	0.20	0.5	13.4	7.6	100
	2x 10	2x 8	23	30	18	5.8	0.20	0.5	13.4	7.6	100
	2x 16	2x 6	20	29	16	8.3	0.30	0.6	17.2	9.5	50
	2x 16	2x 6	29	38	25	8.3	0.30	0.6	17.2	9.5	50

### CONTA-CLIP Standard

Type	Colour	Cat. no.	Qty.
● HZL/0.5 OG	orange	<b>3003.0</b>	500
● HZL/0.5 HL OG	orange	<b>3004.0</b>	500
● HZL/0.5 L OG	orange	<b>3005.0</b>	500
○ HZL/0.75 WH	white	<b>3006.0</b>	500
○ HZL/0.75 HL WH	white	<b>3007.0</b>	500
○ HZL/0.75 L WH	white	<b>3008.0</b>	500
● HZL/1.0 YE	yellow	<b>3009.0</b>	500
● HZL/1.0 HL YE	yellow	<b>3010.0</b>	500
● HZL/1.0 L YE	yellow	<b>3011.0</b>	500
● HZL/1.5 RD	red	<b>3012.0</b>	500
● HZL/1.5 HL RD	red	<b>3013.0</b>	500
● HZL/1.5 L RD	red	<b>3014.0</b>	100
● HZL/2.5-D BU	blue	<b>2778.0</b>	500
● HZL/2.5 HL-D BU	blue	<b>2798.0</b>	500
● HZL/2.5 L-D BU	blue	<b>2998.0</b>	100
○ HZL/4,0-D GR	grey	<b>2799.0</b>	100
○ HZL/4,0 L-D GR	grey	<b>2999.0</b>	100
● HZL/6,0 BK	black	<b>3020.0</b>	100
● HZL/6,0 L BK	black	<b>3021.0</b>	100
○ HZL/10,0 IV	ivory	<b>3022.0</b>	100
○ HZL/10,0 L IV	ivory	<b>3023.0</b>	100
● HZL/16,0 GN	green	<b>3024.0</b>	50
● HZL/16,0 L GN	green	<b>3025.0</b>	50

### Wire-end ferrules for AWG wires with plastic collars



	Cross-section, mm <sup>2</sup>		Stripping length, mm <sup>2</sup>		Dimensions, mm					Qty.
	mm <sup>2</sup>	AWG	mm <sup>2</sup>	mm <sup>2</sup>	L <sub>1</sub>	L <sub>2</sub>	d <sub>1</sub>	S <sub>1</sub>	d <sub>2</sub>	
	0.5	20	10	14	8	1.1	0.15	2.9	0.25	500
	0.75	18	10	14	8	1.2	0.15	3.4	0.25	500
	1	7	10	14	8	1.4	0.15	3.5	0.25	500
	1.5	6	10	14	8	1.7	0.15	4.0	0.25	500

### CONTA-CLIP Standard

Type	Colour	Cat. no.	Qty.
● H 0.5/14 AWG OG	orange	<b>3077.0</b>	500
○ H 0.75/14 AWG WH	white	<b>3078.0</b>	500
● H 1.0/14 AWG YE	yellow	<b>3079.0</b>	500
● H 1.5/14 AWG RD	red	<b>3080.0</b>	500

### Wire-end ferrules for compact connection spaces

	Cross-section, mm <sup>2</sup>		Stripping length, mm <sup>2</sup>		Dimensions, mm					Qty.
	mm <sup>2</sup>	AWG	mm <sup>2</sup>	mm <sup>2</sup>	L <sub>1</sub>	L <sub>2</sub>	d <sub>1</sub>	S <sub>1</sub>	d <sub>2</sub>	
	2.5	14	8	14	8	2.2	0.15	4	0.25	500
	4,0	12	12	20	12	2.8	0.2	4,7	0.30	500

### CONTA-CLIP Standard

Type	Colour	Cat. no.	Qty.
● H 2.5/14-D SR BU	blue	<b>3081.0</b>	500
○ H 4,0/20-D SR GR	grey	<b>3194.0</b>	500

### Wire-end ferrules for short-circuit-proof and earth-fault-proof cables

	Cross-section, mm <sup>2</sup>		Stripping length, mm <sup>2</sup>		Dimensions, mm					Qty.
	mm <sup>2</sup>	AWG	mm <sup>2</sup>	mm <sup>2</sup>	L <sub>1</sub>	L <sub>2</sub>	d <sub>1</sub>	S <sub>1</sub>	d <sub>2</sub>	
	1.5	16	8	17,5	8	1.8	0.15	6.4	0.30	100
	1.5	16	10	19.5	10	1.8	0.15	6.4	0.30	100
	2.5	14	8	17,5	8	2.3	0.15	7,3	0.30	100
	2.5	14	12	21.5	12	2.3	0.15	7,3	0.30	100
	4	12	10	19.5	10	2,9	0.2	7,3	0.30	100
	6	10	12	23	12	3,6	0.2	8,1	0.30	100
	10	8	12	24	12	4,6	0.2	9,6	0.30	100
	16	6	12	25.5	12	6	0.2	11.9	0.30	100

### CONTA-CLIP Standard

Type	Colour	Cat. no.	Qty.
● H 1.5/17,5 KS BK	black	<b>3082.0</b>	100
● H 1.5/19.5 KS BK	black	<b>3083.0</b>	100
● H 2.5/17,5 KS BU	blue	<b>3084.0</b>	100
● H 2.5/21.5 KS BU	blue	<b>3085.0</b>	100
○ H 4,0/19.5 KS GR	grey	<b>3086.0</b>	100
● H 6,0/23 KS YE	yellow	<b>3087.0</b>	100
● H 10,0/24 KS RD	red	<b>3088.0</b>	100
● H 16,0/25.5 KS BU	blue	<b>3089.0</b>	100

### DIN Standard

Type	Colour	Cat. no.	Qty.
○ HZL/0.5-D WH	white	<b>2794.0</b>	500
○ HZL/0.5 HL-D WH	white	<b>2993.0</b>	500
○ HZL/0.5 L-D WH	white	<b>2994.0</b>	500
○ HZL/0.75-D GR	grey	<b>2775.0</b>	500
○ HZL/0.75 HL-D GR	grey	<b>2795.0</b>	500
○ HZL/0.75 L-D GR	grey	<b>2995.0</b>	500
● HZL/1.0-D RD	red	<b>2776.0</b>	500
● HZL/1.0 HL-D RD	red	<b>2796.0</b>	500
● HZL/1.0 L-D RD	red	<b>2996.0</b>	500
● HZL/1.5-D BK	black	<b>2777.0</b>	500
● HZL/1.5 HL-D BK	black	<b>2797.0</b>	500
● HZL/1.5 L-D BK	black	<b>2997.0</b>	100
● HZL/2.5-D BU	blue	<b>2778.0</b>	500
● HZL/2.5 HL-D BU	blue	<b>2798.0</b>	500
● HZL/2.5 L-D BU	blue	<b>2998.0</b>	100
○ HZL/4,0-D GR	grey	<b>2799.0</b>	100
○ HZL/4,0 L-D GR	grey	<b>2999.0</b>	100
● HZL/6,0-D YE	yellow	<b>2800.0</b>	100
● HZL/6,0 L-D YE	yellow	<b>3000.0</b>	100
● HZL/10,0-D RD	red	<b>2801.0</b>	100
● HZL/10,0 L-D RD	red	<b>3001.0</b>	100
● HZL/16,0-D BU	blue	<b>2802.0</b>	50
● HZL/16,0 L-D BU	blue	<b>3002.0</b>	50

### DIN Standard

Type	Colour	Cat. no.	Qty.
○ H 0.5/14-D AWG WH	white	<b>3090.0</b>	500
○ H 0.75/14-D AWG GR	grey	<b>3091.0</b>	500
● H 1.0/14-D AWG RD	red	<b>3092.0</b>	500
● H 1.5/14-D AWG BK	black	<b>3093.0</b>	500

Type	Colour	Cat. no.
● H 2.5/14-D SR BU	blue	<b>3081.0</b>

### T Standard

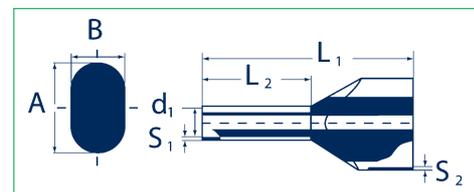
Type	Colour	Cat. no.	Qty.
○ HZL/0.5-D WH	white	<b>2794.0</b>	500
○ HZL/0.5 HL-D WH	white	<b>2993.0</b>	500
○ HZL/0.5 L-D WH	white	<b>2994.0</b>	500
● HZL/0.75-T LB	bright blue	<b>3029.0</b>	500
● HZL/0.75 HL-T LB	bright blue	<b>3030.0</b>	500
● HZL/0.75 L-T LB	bright blue	<b>3031.0</b>	500
● HZL/1.0-D RD	red	<b>2776.0</b>	500
● HZL/1.0 HL-D RD	red	<b>2796.0</b>	500
● HZL/1.0 L-D RD	red	<b>2996.0</b>	500
● HZL/1.5-D BK	black	<b>2777.0</b>	500
● HZL/1.5 HL-D BK	black	<b>2797.0</b>	500
● HZL/1.5 L-D BK	black	<b>2997.0</b>	100
○ HZL/2.5-T GR	grey	<b>3038.0</b>	500
○ HZL/2.5 HL-T GR	grey	<b>3039.0</b>	500
○ HZL/2.5 L-T GR	grey	<b>3040.0</b>	100
● HZL/4,0-T OG	orange	<b>3041.0</b>	100
● HZL/4,0 L-T OG	orange	<b>3042.0</b>	100
● HZL/6,0-T GN	green	<b>3043.0</b>	100
● HZL/6,0 L-T GN	green	<b>3044.0</b>	100
● HZL/10,0-T BN	brown	<b>3045.0</b>	100
● HZL/10,0 L-T BN	brown	<b>3046.0</b>	100
○ HZL/16,0-T WH	white	<b>3047.0</b>	50
○ HZL/16,0 L-T WH	white	<b>3048.0</b>	50

### T Standard

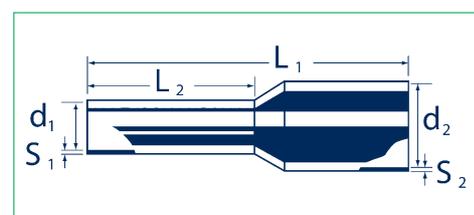
Type	Colour	Cat. no.	Qty.
○ H 0.5/14-D AWG WH	white	<b>3090.0</b>	500
○ H 0.75/14-D AWG LB	bright brown	<b>3094.0</b>	500
● H 1.0/14-D AWG RD	red	<b>3092.0</b>	500
● H 1.5/14-D AWG BK	black	<b>3093.0</b>	500

Type	Colour	Cat. no.	Qty.
○ H 2.5/14 SR GR	grey	<b>3095.0</b>	500

The special shape of the plastic collar makes it easy to feed in two wires in one wire-end ferrule.



Funnel feed-in made of polypropylene. Heat resistant up to 120°C. For wires from 0.5 – 150 mm². Material: E-Cu/A-Cu, galvanically tin-plated.

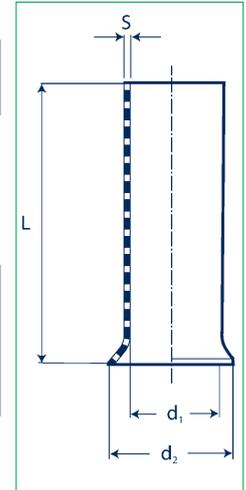


## Uninsulated wire-end ferrules

### Uninsulated wire-end ferrules

	Cross-section		Stripping length		Dimensions, mm			Qty.	Type	Cat. no.
	mm <sup>2</sup>	AWG	mm <sup>2</sup>	L	d <sub>1</sub>	d <sub>2</sub>	S			
	0.25	24	5	5	0.80	1.65	0.15	1000	H 0.25/5	<b>3096.0</b>
	0.50	20	6	6	1.00	2.10	0.15	1000	H 0.5/6	<b>2216.0</b>
	0.50	20	10	10	1.00	2.10	0.15	1000	H 0.5/10	<b>3097.0</b>
	0.75	18	6	6	1.20	2.30	0.15	1000	H 0.75/6	<b>2217.0</b>
	0.75	18	10	10	1.20	2.30	0.15	1000	H 0.75/10	<b>2218.0</b>
	1.00	17	6	6	1.40	2.50	0.15	1000	H 1.0/6	<b>2219.0</b>
	1.00	17	10	10	1.40	2.50	0.15	1000	H 1.0/10	<b>2220.0</b>
	1.50	16	7	7	1.70	2.80	0.15	1000	H 1.5/7	<b>2221.0</b>
	1.50	16	10	10	1.70	2.80	0.15	1000	H 1.5/10	<b>2222.0</b>
	1.50	16	12	12	1.70	2.80	0.15	1000	H 1.5/12	<b>3098.0</b>
	1.50	16	18	18	1.70	2.80	0.15	1000	H 1.5/18	<b>3099.0</b>
	2.50	14	7	7	2.20	3.40	0.15	1000	H 2.5/7	<b>2223.0</b>
	2.50	14	10	10	2.20	3.40	0.15	1000	H 2.5/10	<b>3100.0</b>
	2.50	14	12	12	2.20	3.40	0.15	1000	H 2.5/12	<b>2224.0</b>
	2.50	14	18	18	2.20	3.40	0.15	1000	H 2.5/18	<b>3101.0</b>
	4,00	12	9	9	2.80	4.00	0.20	1000	H 4,0/9	<b>2225.0</b>
	4,00	12	12	12	2.80	4.00	0.20	1000	H 4,0/12	<b>2226.0</b>
	4,00	12	15	15	2.80	4.00	0.20	1000	H 4,0/15	<b>3102.0</b>
	4,00	12	18	18	2.80	4.00	0.20	1000	H 4,0/18	<b>3103.0</b>
	6,00	10	12	12	3.50	4.70	0.20	500	H 6,0/12	<b>2227.0</b>
	6,00	10	15	15	3.50	4.70	0.20	500	H 6,0/15	<b>2388.0</b>
	6,00	10	15	15	3.50	4.70	0.20	500	H 6,0/15	<b>3104.0</b>
	6,00	10	18	18	3.50	4.70	0.20	500	H 6,0/18	<b>3105.0</b>
	10,00	8	12	12	4.50	5.80	0.20	500	H 10,0/12	<b>2228.0</b>
	10,00	8	15	15	4.50	5.80	0.20	500	H 10,0/15	<b>2389.0</b>
	10,00	8	18	18	4.50	5.80	0.20	500	H 10,0/18	<b>2229.0</b>
	16,00	6	12	12	5,80	7.50	0.20	500	H 16,0/12	<b>2391.0</b>
	16,00	6	15	15	5,80	7.50	0.20	500	H 16,0/15	<b>2392.0</b>
	16,00	6	18	18	5,80	7.50	0.20	500	H 16,0/18	<b>2393.0</b>
	16,00	6	25	25	5,80	7.50	0.20	500	H 16,0/25	<b>3106.0</b>
	16,00	6	32	32	5,80	7.50	0.20	500	H 16,0/32	<b>3107.0</b>
	25,00	4	15	15	7,30	9.50	0.20	500	H 25,0/15	<b>2394.0</b>
	25,00	4	18	18	7,30	9.50	0.20	500	H 25,0/18	<b>2395.0</b>
	25,00	4	25	25	7,30	9.50	0.20	500	H 25,0/25	<b>3108.0</b>
	25,00	4	32	32	7,30	9.50	0.20	500	H 25,0/32	<b>3109.0</b>
	35,00	2	18	18	8,30	11.00	0.20	500	H 35,0/18	<b>2396.0</b>
	35,00	2	25	25	8,30	11.00	0.20	500	H 35,0/25	<b>3110.0</b>
	35,00	2	32	32	8,30	11.00	0.20	500	H 35,0/32	<b>3111.0</b>
	50,00	1	18	18	10.30	13.00	0.30	500	H 50,0/18	<b>3112.0</b>
	50,00	1	22	22	10.30	13.00	0.30	500	H 50,0/25	<b>3113.0</b>
	50,00	1	32	32	10.30	13.00	0.30	100	H 50,0/32	<b>2816.0</b>
	70,00*	2/0	25	25	12.50	15.00	0.30	100	H 70,0/25	<b>2790.0</b>
	70,00*	2/0	32	32	12.50	15.00	0.30	100	H 70,0/32	<b>3114.0</b>
	95,00*	3/0	25	25	14.50	17.00	0.30	50	H 95,0/25	<b>3115.0</b>
	95,00*	3/0	32	32	14.50	17.00	0.30	50	H 95,0/32	<b>2791.0</b>
	120,00*	4/0	32	32	17,20	19.00	0.50	50	H 120,0/32	<b>2792.0</b>
	150,00* 250 MCM		32	32	19.50	21.00	0.50	50	H 150,0/32	<b>2793.0</b>

Wire-end ferrules without plastic collars, acc. to DIN 46228 sheet 1/3.73. For wires from 0.5-150 mm<sup>2</sup>. Material: E-Cu/A-Cu, galvanically tin-plated



\* No CSA-US approval

## Wire-end ferrule boxes / Assortment boxes

### Wire-end ferrule boxes



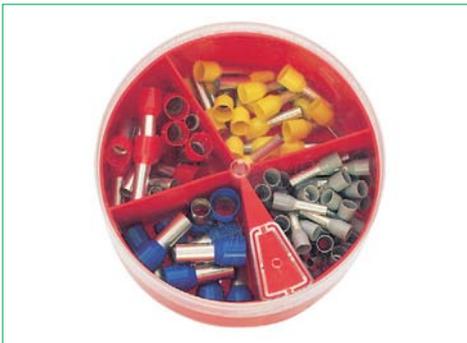
**LD / empty box**

Type	Cat. no.	Qty.
Wire-end empty box	<b>2887.0</b>	1



**Box 0.5 - 2.5 mm<sup>2</sup>**  
plastic box, wire-end ferrules with plastic collars  
0.5 - 2.5 mm<sup>2</sup>  
**CONTA-CLIP-Standard**

Type	Cat. no.	Qty.	
Box 0.5-2.5 mm <sup>2</sup>	<b>2884.0</b>	1	
Contents	Pieces	Colour	Size, mm <sup>2</sup>
H 0.5/14	50	orange	0.5
H 0.75/14	100	white	0.75
H 1.0/14	100	yellow	1.0
H 1.5/14	100	red	1.5
H 2.5/14-D	50	blue	2.5



**Box 4,0 - 16 mm<sup>2</sup>**  
plastic box, wire-end ferrules with plastic collars  
4.0 - 16 mm<sup>2</sup>  
**CONTA-CLIP-Standard**

Type	Cat. no.	Qty.	
Box 4,0-16 mm <sup>2</sup>	<b>2885.0</b>	1	
Contents	Pieces	Colour	Size, mm <sup>2</sup>
H 4,0/18-D	50	grey	4.0
H 6,0/20	20	black	6.0
H 10,0/22	20	ivory	10.0
H 16,0/22	10	green	16.0

### Assortment box



**SK 12 / 12**  
Plastic box with 12 compartments

Type	Cat. no.	Qty.
SK 12/12	<b>2660.0</b>	1



**Assortment box with a variety of inserts**  
SK 27 with 27 inserts 110 x 42 x 35 mm  
SK 50 with 50 inserts 74 x 32 x 32 mm  
E 27 inserts separate for SK 27  
E 50 inserts separate for SK 50

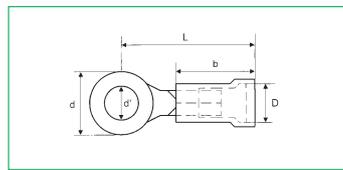
Type	Cat. no.	Qty.
SK 27	<b>2376.0</b>	1
With 27 inserts		1
SK 50	<b>2042.0</b>	1
With 50 inserts		1
E 27	<b>2377.0</b>	1
Inserts separate for SK 27		1
E 50	<b>2043.0</b>	1
Inserts separate for SK 50		1
SK	<b>2501.0</b>	1
Empty assortment box		1

## Insulated connector

### Crimp cable lugs with ring shape

QKS

- DIN 46237
- Insulated PC
- With widened insulating sleeve

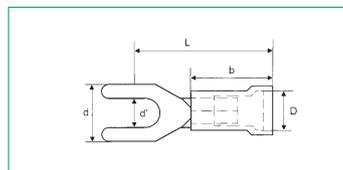


Type	Cat. no.	ID colour		Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm					Size DIN
							d <sub>1</sub>	d	D	L	b	
QKS 1	2534.0	red	●	100	0.5-1	20-8	4.3	8	4.5	17	10	A 4-1
QKS 1	2535.0	red	●	100	0.5-1	20-8	5.3	10	4.5	18	10	A 5-1
QKS 1	2536.0	red	●	100	0.5-1	20-8	6.5	11	4.5	20	10	A 6-1
QKS 2.5	2537.0	blue	●	100	> 1-2.5	18-14	4.3	8	5.1	18	11	A 4-2.5
QKS 2.5	2538.0	blue	●	100	> 1-2.5	18-14	5.3	10	5.1	20	11	A 5-2.5
QKS 2.5	2539.0	blue	●	100	> 1-2.5	18-14	6.5	11	5.1	22	11	A 6-2.5
QKS 2.5	2540.0	blue	●	100	> 1-2.5	18-14	8.4	14	5.1	23	11	A 8-2.5
QKS 6	2541.0	yellow	●	100	> 2.5-6	14-10	4.3	8	6.4	20	12	A 4-6
QKS 6	2542.0	yellow	●	100	> 2.5-6	14-10	5.3	10	6.4	21	12	A 5-6
QKS 6	2543.0	yellow	●	100	> 2.5-6	14-10	6.5	11	6.4	22	12	A 6-6
QKS 6	2544.0	yellow	●	100	> 2.5-6	14-10	8.4	14	6.4	25	12	A 8-6

### Crimp cable lugs with forked shape

QKS-G

- DIN 46237
- Insulated PC
- With widened insulating sleeve

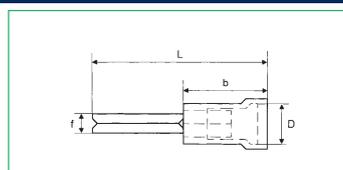


Type	Cat. no.	ID colour		Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm					Size DIN
							d <sub>1</sub>	d	D	L	b	
QKS G 1	3064.0	red	●	100	0.5-1	20-8	4.3	6.8	4.5	12	11.5	C 4-1
QKS G 1	3065.0	red	●	100	0.5-1	20-8	5.3	10	4.5	13	11.5	C 5-1
QKS G 1	3066.0	red	●	100	0.5-1	20-8	6.5	11	4.5	15	11.5	C 6-1
QKS G 2.5	3067.0	blue	●	100	1-2.5	18-14	4.3	6.8	5.1	12	11.5	C 4-2.5
QKS G 2.5	3068.0	blue	●	100	1-2.5	18-14	5.3	10	5.1	14	11.5	C 5-2.5
QKS G 2.5	3069.0	blue	●	100	1-2.5	18-14	6.5	11	5.1	16	11.5	C 6-2.5
QKS G 6	3070.0	yellow	●	100	2.5-6	14-10	4.3	8	6.4	14	14	C 4-6
QKS G 6	3071.0	yellow	●	100	2.5-6	14-10	5.3	10	6.4	15	14	C 5-6
QKS G 6	3072.0	yellow	●	100	2.5-6	14-10	6.5	11	6.4	16	14	C 6-6
QKS G 6	3073.0	yellow	●	100	2.5-6	14-10	8.4	14.2	6.4	21	14	C 8-6

### Crimp cable lugs with pin shape

SKS

- DIN 46231
- Insulated PC
- With widened insulating sleeve

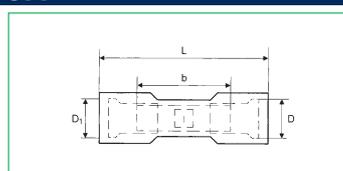


Type	Cat. no.	ID colour		Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm					Size DIN
							d <sub>1</sub>	d	D	L	b	
SKS-1	2545.0	red	●	100	0.5-1	20-18	1.9	-	4.5	23	10	1
SKS 2.5	2546.0	blue	●	100	> 1-2.5	18-14	1.9	-	5.1	23	11	2.5
SKS 6	2547.0	yellow	●	100	> 2.5-6	14-10	2.9	-	7	26	12	6

### Joint connector

STV

- Insulated PC
- With widened insulating sleeve



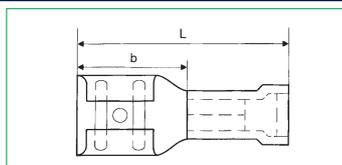
Type	Cat. no.	ID colour		Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm					Size DIN
							d <sub>1</sub>	d	D	L	b	
STV 1	3074.0	red	●	100	0.5-1	20-18	1.6	-	3.8	25	15	1
STV 2.5	3075.0	blue	●	100	1-2.5	18-14	2.3	-	4.5	25.3	16	2.5
STV 6	3076.0	yellow	●	100	2.5-6	14-10	3.6	-	6.4	27.4	15	6

## Insulated connector

### Crimp cable lugs, spade shape

FSH

- DIN 46235 parts 1-3
- Insulated PVC
- With widened insulating sleeve

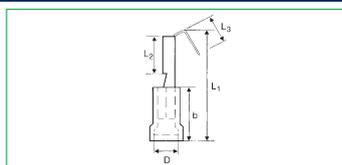


Type	Cat. no.	ID colour	Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm		Plug thickness mm	Plug width mm	Size DIN	
						L	b				
FSH 1/2.8	<b>2548.0</b>	red	●	100	0.5-1	20-18	4.3	8	4.5	17	-
FSH 1/2.8	<b>2549.0</b>	red	●	100	0.5-1	20-18	5.3	10	4.5	18	-
FSH 1/6.3	<b>2550.0</b>	red	●	100	0.5-1	20-18	6.5	11	4.5	20	6.3-1
FSH 2.5/6.3	<b>2551.0</b>	blue	●	100	>1-2.5	18-14	4.3	8	5.1	18	6.3-2.5
FSH 6/6.3	<b>2552.0</b>	yellow	●	100	>2.5-6	14-10	5.3	10	5.1	20	6.3-6

### Crimp cable lugs, spade shape

FSH A

- Insulated PVC
- With branch (plug tongue)
- With widened insulating sleeve

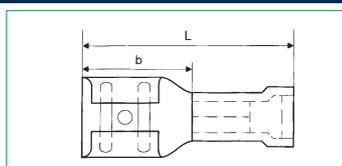


Type	Cat. no.	ID colour	Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm			Plug thickness mm	Plug width mm	
						L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>			
FSH A 1	<b>2555.0</b>	red	●	100	0.5-1	20 - 17	22	7.5	8	0.8	6.3
FSH A 2.5	<b>2556.0</b>	blue	●	100	1-2.5	17 - 14	22	7.5	8	0.8	6.3

### Crimp cable lugs, spade shape / insulated

FSH

- Insulated PVC
- With widened insulating sleeve

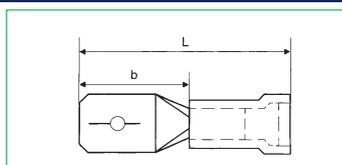


Type	Cat. no.	ID colour	Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm			Plug thickness mm	Plug width mm	
						L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>			
FSH 1	<b>2553.0</b>	red	●	100	0.5-1	20 - 18	21	7.5	-	0.8	6.3
FSH 2.5	<b>2554.0</b>	blue	●	100	>1-2.5	18 - 14	21	7.5	-	0.8	6.3

### Crimp cable lug, spade shape

FST

- Insulated PVC
- With widened insulating sleeve



Type	Cat. no.	ID colour	Qty.	Cross-section, mm <sup>2</sup>	AWG	Dimensions, mm			Plug thickness mm	Plug width mm	
						L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>			
FST 1/2.8	<b>2557.0</b>	red	●	100	0.5-1	20 - 18	14.6	5.5	-	0.8	2.8
FST 1/6.3	<b>2558.0</b>	red	●	100	0.5-1	20 - 18	22	7.5	-	0.8	6.3
FST 2.5/6.3	<b>2559.0</b>	blue	●	100	>1-2.5	18 - 14	22	7.5	-	0.8	6.3
FST 6/6.3	<b>2560.0</b>	yellow	●	100	>2.5-6	14 - 10	22	7.5	-	0.8	6.3

# CONTA-BOX housing systems

**CONTA-CLIP** offers a wide range of housings of different sizes and materials for the protection of electronic circuitry, devices or terminals. The type of material to use is chosen based on the requirements of the application.

Five product lines are available:

## Polystyrene

Material:	Polystyrene
Protection:	IP 66
Toxicity characteristics:	halogen-free/cadmium-free
Thermal stability:	-25° to +40°C
Flammability:	UL 94-V2
Chemical resistance:	good
Sea water resistance:	good
UV resistance:	satisfactory



## Polycarbonate

Material:	Polycarbonate
Protection:	IP 66
Toxicity characteristics:	halogen-free/cadmium-free
Thermal stability:	-35°C to +80°C
Flammability:	UL 94-V2
Chemical resistance:	good
Sea water resistance:	very good
UV resistance:	good



## Polyester

Material:	Polyester
Protection:	IP 66
Toxicity characteristics:	halogen-free/cadmium-free
Thermal stability:	-40° to +90°C
Flammability:	UL 94-V0
Chemical resistance:	good
Sea water resistance:	very good
UV resistance:	good



## CONTA-BOX housing systems

*Polystyrene / Polycarbonate / Polyester / ABS / Aluminium*

### ABS

Material:	ABS
Protection:	IP 66
Toxicity characteristics:	halogen-free/cadmium-free
Thermal stability:	-40° to +80°C
Flammability:	UL 94-HB
Chemical resistance:	good
Sea water resistance:	good
UV resistance:	satisfactory



### Aluminium

Material:	Aluminium (ALSI, DIN 1725)
Protection:	IP 66
Toxicity characteristics:	halogen-free/cadmium-free
Thermal stability:	-40° to +90°C
Flammability:	
Chemical resistance:	good
Sea water resistance:	good
UV resistance:	very good



Upon request, the housings are manufactured according to customer specifications and supplemented with products from **CONTA-CONNECT** or **CONTA-CON** product lines, which are then installed on mounting plates or DIN rails.

During the manufacture of the housings, we can carry out cuttings (milling), feed-through bore holes, thread connection bore holes or painting. Cable glands or external joints can also be attached when needed.

Our consistent high level of quality is ensured by our selection of the finest materials and our continuous quality management control system.

# Polystyrene housing CK

## Polystyrene housing

Material: polystyrene  
 Protection: IP 66  
 Impact resistant  
 A comprehensive line of accessories  
 Options:  
 Metric knock-outs  
 Transparent polycarbonate cover



### Technical data

Material
Protection
Toxicity characteristics
Flamm. class acc. to UL 94
Thermal stability
Chemical resistance
Sea water resistance
UV resistance
Colour
Impact resistance

Polystyrene
IP66
halogen-free and cadmium-free
V2
-25°C to +40°C
good
good
satisfactory
grey, similar to RAL 7035
IK07 DIN EN 5012

Outer dimensions			Dimension diagram
L	W	H	Page
65	65	57	439
65	65	81	439
94	65	57	439
94	65	81	439
94	94	57	440
94	94	81	440
110	110	66	440
110	110	90	440
130	94	57	441
130	94	81	441
130	130	75	441
130	130	99	441
180	94	57	442
180	94	81	442
180	110	90	442
180	110	111	442
180	110	165	442
182	180	90	443
182	180	111	443
182	180	165	443
254	180	63	443
254	180	84	443
254	180	90	444
254	180	111	444
254	180	165	444
254	180	215	444
361	254	111	445
361	254	165	445

Grey polystyrene cover Lower section with M knock-outs	
Type	Cat. no.
CK 77/57 MV	4316.3
CK 77/81 MV	4318.3
CK 97/57 MV	4320.3
CK 97/81 MV	4322.3
CK 99/57 MV	4324.3
CK 99/81 MV	4326.3
CK 1111/66 MV	4328.3
CK 1111/90 MV	4330.3
CK 1309/57 MV	4332.3
CK 1309/81 MV	4334.3
CK 1313/75 MV	4336.3
CK 1313/99 MV	4338.3
CK 1809/57 MV	4340.3
CK 1809/81 MV	4342.3
CK 1811/90 MV	4344.3
CK 1811/111 MV	4346.3
CK 1811/165 MV	4348.3
CK 1818/90 MV	4350.3
CK 1818/111 MV	4352.3
CK 1818/165 MV	4354.3
CK 2518/63 MV	4356.3
CK 2518/84 MV	4358.3
CK 2518/90 MV	4360.3
CK 2518/111 MV	4362.3
CK 2518/165 MV	4364.3
CK 3625/111 MV	4366.3
CK 3625/165 MV	4368.3

Grey polystyrene cover Lower section without M knock-outs	
Type	Cat. no.
CK 77/57 OV	4201.3
CK 77/81 OV	4205.3
CK 97/57 OV	4209.3
CK 97/81 OV	4213.3
CK 99/57 OV	4217.3
CK 99/81 OV	4221.3
CK 1111/66 OV	4225.3
CK 1111/90 OV	4229.3
CK 1309/57 OV	4233.3
CK 1309/81 OV	4237.3
CK 1313/75 OV	4241.3
CK 1313/99 OV	4245.3
CK 1809/57 OV	4249.3
CK 1809/81 OV	4253.3
CK 1811/90 OV	4257.3
CK 1811/111 OV	4261.3
CK 1811/165 OV	4265.3
CK 1818/90 OV	4269.3
CK 1818/111 OV	4273.3
CK 1818/165 OV	4277.3
CK 2518/63 OV	4194.3
CK 2518/84 OV	4196.3
CK 2518/90 OV	4285.3
CK 2518/111 OV	4289.3
CK 2518/165 OV	4293.3
CK 2518/215 OV	4297.3
CK 3625/111 OV	4301.3
CK 3625/165 OV	4305.3

Polycarbonate cover, transparent Lower section with M knock-outs	
Type	Cat. no.
CK 77/57 MVT	4317.3
CK 77/81 MVT	4319.3
CK 97/57 MVT	4321.3
CK 97/81 MVT	4323.3
CK 99/57 MVT	4325.3
CK 99/81 MVT	4327.3
CK 1111/66 MVT	4329.3
CK 1111/90 MVT	4331.3
CK 1309/57 MVT	4333.3
CK 1309/81MVT	4335.3
CK 1313/75 MVT	4337.3
CK 1313/99 MVT	4339.3
CK 1809/57 MVT	4341.3
CK 1809/81 MVT	4343.3
CK 1811/90 MVT	4345.3
CK 1811/111 MVT	4347.3
CK 1811/165 MVT	4349.3
CK 1818/90 MVT	4351.3
CK 1818/111 MVT	4353.3
CK 1818/165 MVT	4355.3
CK 2518/63 MVT	4357.3
CK 2518/84 MVT	4359.3
CK 2518/90 MVT	4361.3
CK 2518/111 MVT	4363.3
CK 2518/165 MVT	4365.3
CK 3625/111 MVT	4367.3
CK 3625/165 MVT	4369.3

Polycarbonate cover, transparent Lower section without M knock-outs	
Type	Cat. no.
CK 77/57 OVT	4203.3
CK 77/81 OVT	4207.3
CK 97/57 OVT	4211.3
CK 97/81 OVT	4215.3
CK 99/57 OVT	4219.3
CK 99/81 OVT	4223.3
CK 1111/66 OVT	4227.3
CK 1111/90 OVT	4231.3
CK 1309/57 OVT	4235.3
CK 1309/81 OVT	4239.3
CK 1313/75 OVT	4243.3
CK 1313/99 OVT	4247.3
CK 1809/57 OVT	4251.3
CK 1809/81 OVT	4255.3
CK 1811/90 OVT	4259.3
CK 1811/111 OVT	4263.3
CK 1811/165 OVT	4267.3
CK 1818/90 OVT	4271.3
CK 1818/111 OVT	4275.3
CK 1818/165 OVT	4279.3
CK 2518/63 OVT	4195.3
CK 2518/84 OVT	4197.3
CK 2518/90 OVT	4287.3
CK 2518/111 OVT	4291.3
CK 2518/165 OVT	4295.3
CK 2518/215 OVT	4299.3
CK 3625/111 OVT	4303.3
CK 3625/165 OVT	4307.3

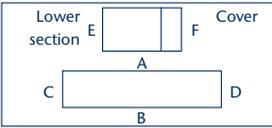
# Polystyrene housing CK

## Polystyrene housing CK 77/57 Polystyrene housing CK 77/81

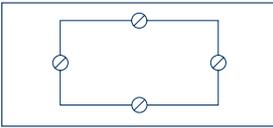
Outer dimensions, mm	65 x 65 x 57
Weight, g	85
Outer dimensions, mm	65 x 65 x 81
Weight, g	120

### Threaded drill hole options

#### Without knock-outs



#### With metric knock-outs



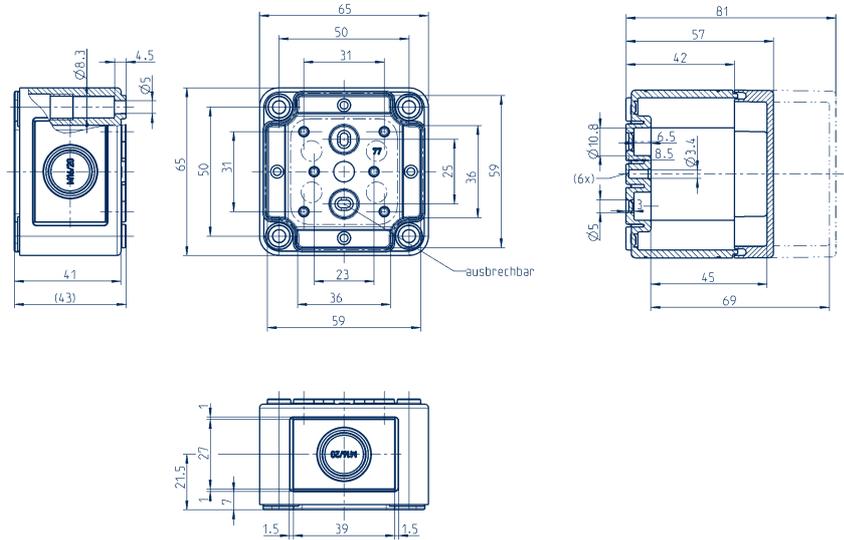
M	A/B	C/D	Knock-outs	A/B	C/D
12	2	2	M16/20	1	1
16	1	1	-	-	-
20	1	1	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

### Accessories

### Qty

DIN rail section TS 15	TS 15 / 49.5mm long	-
<b>Cat. no.</b>	<b>4559.0</b>	1
DIN rail section TS 35		1
<b>Cat. no.</b>		
Mounting plate MP	MP /CK 77	-
<b>Cat. no.</b>	<b>4511.0</b>	1
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	1

### Dimension diagram

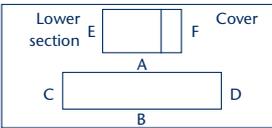


## Polystyrene housing CK 97/57 Polystyrene housing CK 97/81

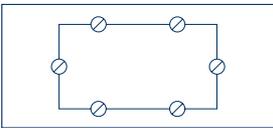
Outer dimensions, mm	97 x 65 x 57
Weight, g	120
Outer dimensions, mm	94 x 65 x 81
Weight, g	147

### Threaded drill hole options

#### Without knock-outs



#### With metric knock-outs



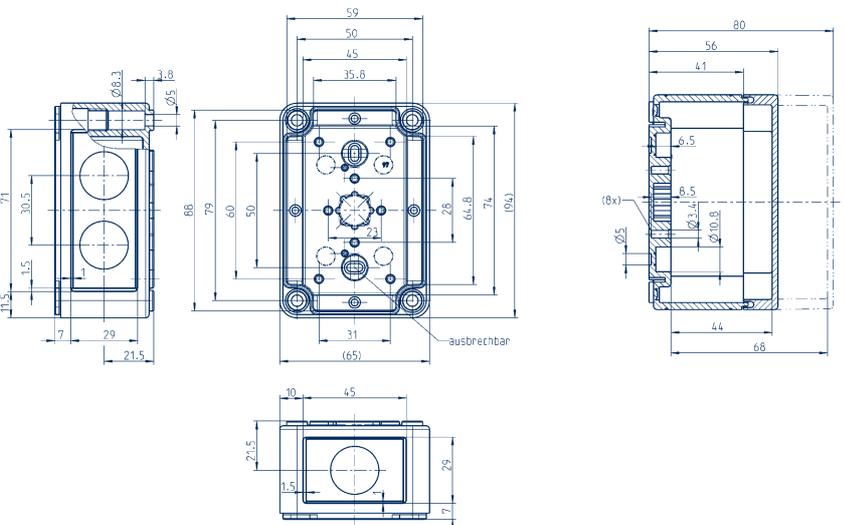
M	A/B	C/D	Knock-outs	A/B	C/D
12	3	2	M16/20	2	1
16	2	1	-	-	-
20	2	1	-	-	-
25	1	1	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

### Accessories

### Qty

DIN rail section TS 15	TS 15 / 80 mm long	-
<b>Cat. no.</b>	<b>4559.1</b>	1
DIN rail section TS 35		1
<b>Cat. no.</b>		
Mounting plate MP	MP /CK 97	-
<b>Cat. no.</b>	<b>4511.1</b>	1
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	1

### Dimension diagram



Knock-outs:	● =M12/16	○ =M16/20	○ =M20
	⊙ =M20/25	⊗ =M25/32	⊙ =M32/40

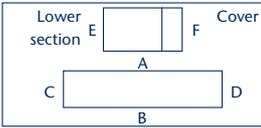
## Polystyrene housing CK

### Polystyrene housing CK 99/57 Polystyrene housing CK 99/81

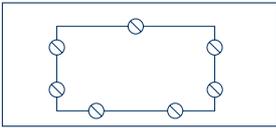
Outer dimensions, mm	94 x 94 x 57
Weight, g	127
Outer dimensions, mm	94 x 94 x 81
Weight, g	193

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

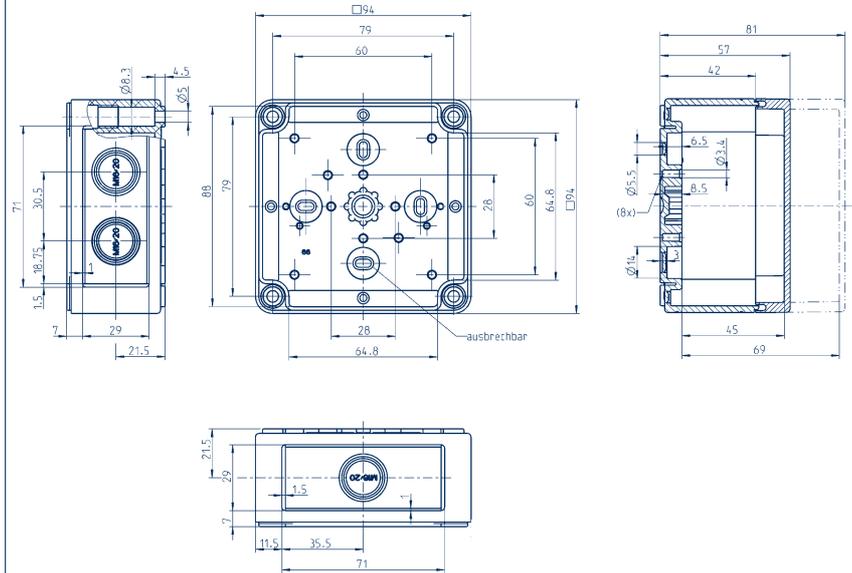


M	A/B	C/D	Knock-outs	A	B/C/D
12	3	3	M16/20	1	2
16	2	3	-	-	-
20	2	2	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

#### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 80 mm long	1
<b>Cat. no.</b>	<b>4559.1</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting plate MP	MP /CK 99	1
<b>Cat. no.</b>	<b>4511.2</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

#### Dimension diagram

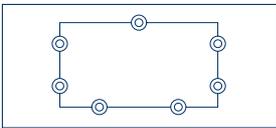
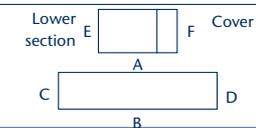


### Polystyrene housing CK 1111/66 Polystyrene housing CK 1111/90

Outer dimensions, mm	110 x 110 x 66
Weight, g	181
Outer dimensions, mm	110 x 110 x 90
Weight, g	242

#### Threaded drill hole options

##### Without knock-outs

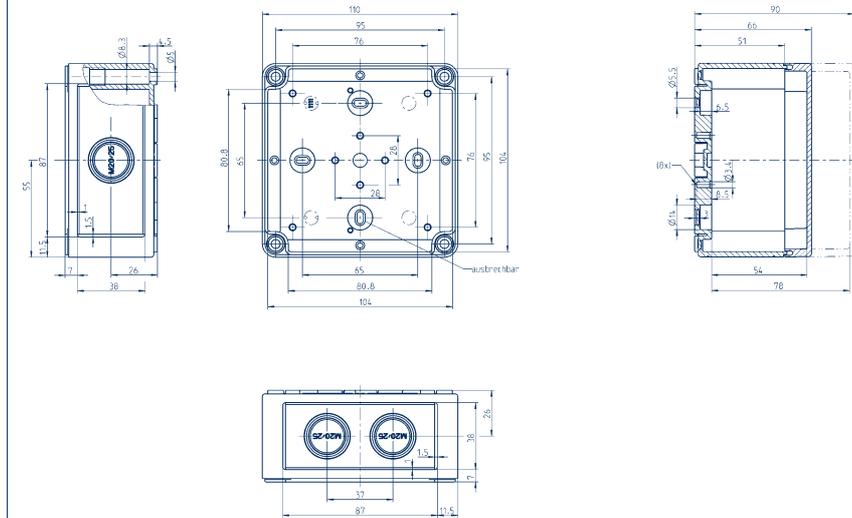


M	A/B	C/D	Knock-outs	A	B/C/D
12	8	8	M20/25	1	2
16	4	4	-	-	-
20	2	2	-	-	-
25	2	2	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

#### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 92 mm long	1
<b>Cat. no.</b>	<b>4559.2</b>	
DIN rail section TS 35	TS 35 / 81 mm long	
<b>Cat. no.</b>	<b>4559.3</b>	
Mounting plate MP	MP /CK 1111	1
<b>Cat. no.</b>	<b>4511.3</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

#### Dimension diagram



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊙ =M32/40

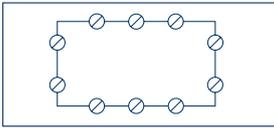
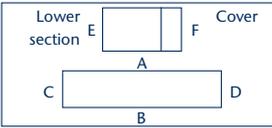
**Polystyrene housing CK 1309/57**  
**Polystyrene housing CK 1309/81**

Outer dimensions, mm	130 x 94 x 57
Weight, g	153
Outer dimensions, mm	130 x 94 x 81
Weight, g	200

**Threaded drill hole options**

**Without knock-outs**

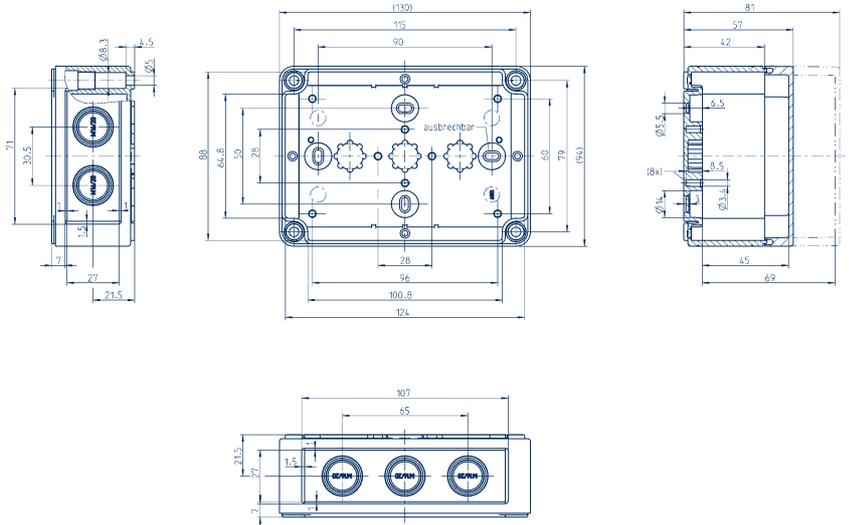
**With metric knock-outs**



M	A/B	C/D	Knock-outs	A/B	C/D
12	5	3	M16/20	3	2
16	4	2	-	-	-
20	3	2	-	-	-
25	2	1	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 111 mm long	1
<b>Cat. no.</b>	<b>4559.4</b>	
DIN rail section TS 35	TS 35 / 106 mm long	1
<b>Cat. no.</b>	<b>4559.5</b>	
Mounting plate MP	MP /CK 1309	1
<b>Cat. no.</b>	<b>4511.4</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

**Dimension diagram**



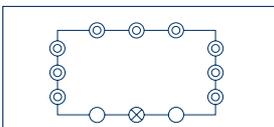
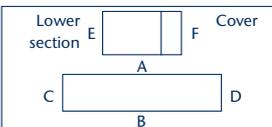
**Polystyrene housing CK 1313/75**  
**Polystyrene housing CK 1313/99**

Outer dimensions, mm	130 x 130 x 75
Weight, g	243
Outer dimensions, mm	130 x 130 x 99
Weight, g	350

**Threaded drill hole options**

**Without knock-outs**

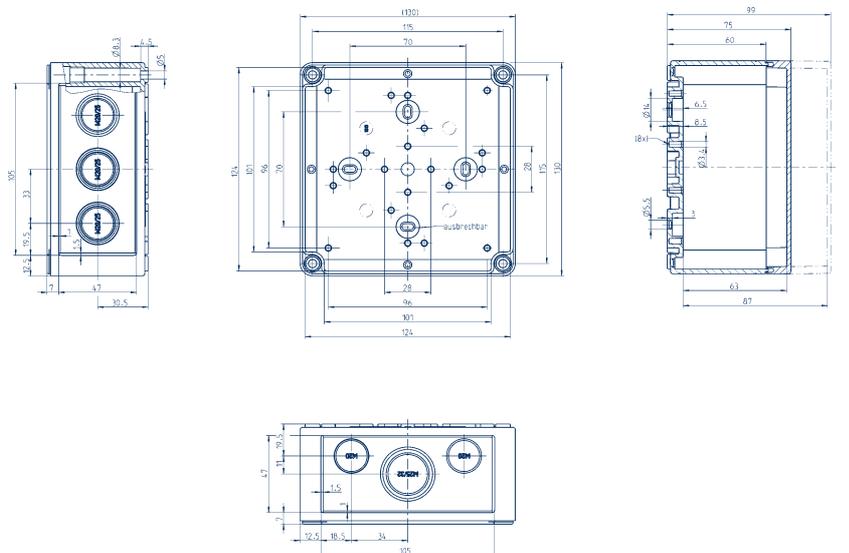
**With metric knock-outs**



M	A/B	C/D	Knock-outs	A	B/C/D
12	10	10	M20	2	-
16	6	6	M20/25	-	3
20	3	3	M25/32	1	-
25	2	3	-	-	-
32	2	2	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 111 mm long	1
<b>Cat. no.</b>	<b>4559.4</b>	
DIN rail section TS 35	TS 35 / 106 mm long	1
<b>Cat. no.</b>	<b>4559.5</b>	
Mounting plate MP	MP /CK 1313	1
<b>Cat. no.</b>	<b>4511.5</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK1811-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

**Dimension diagram**



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊙ =M32/40

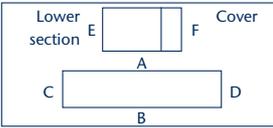
## Polystyrene housing CK

### Polystyrene housing CK 1809/57 Polystyrene housing CK 1809/81

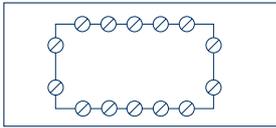
Outer dimensions, mm	180 x 94 x 57
Weight, g	212
Outer dimensions, mm	180 x 94 x 81
Weight, g	277

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

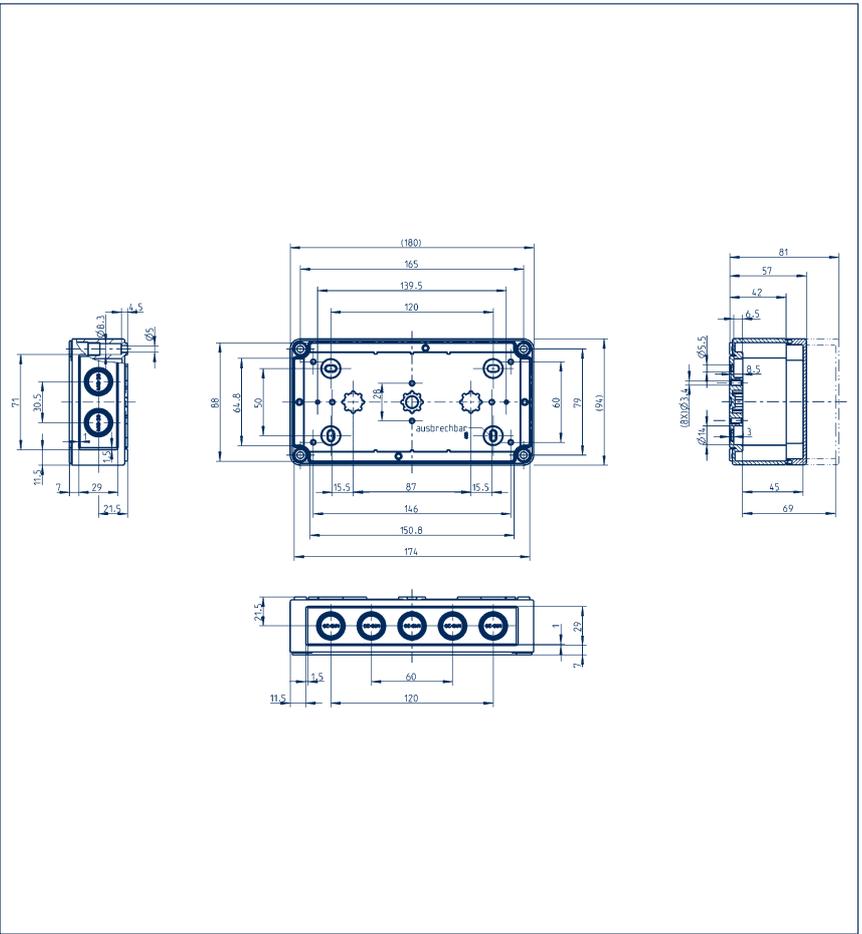


M	A/B	C/D	Knock-outs	A/B	C/D
12	8	3	M16/20	5	2
16	6	2	-	-	-
20	5	2	-	-	-
25	4	1	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

#### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 154 mm long	1
<b>Cat. no.</b>	<b>4559.6</b>	
DIN rail section TS 35	TS 35 / 144 mm long	1
<b>Cat. no.</b>	<b>4507.4</b>	
Mounting plate MP	MP /CK 1809	1
<b>Cat. no.</b>	<b>4511.6</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

#### Dimension diagram

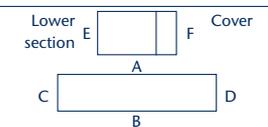


### Polystyrene housing CK 1811/90 Polystyrene housing CK 1811/111 Polystyrene housing CK 1811/165

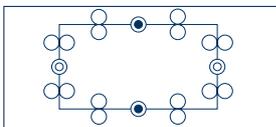
Outer dimensions, mm	180 x 110 x 90
Weight, g	344
Outer dimensions, mm	180 x 110 x 111
Weight, g	383
Outer dimensions, mm	180 x 110 x 165
Weight, g	513

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

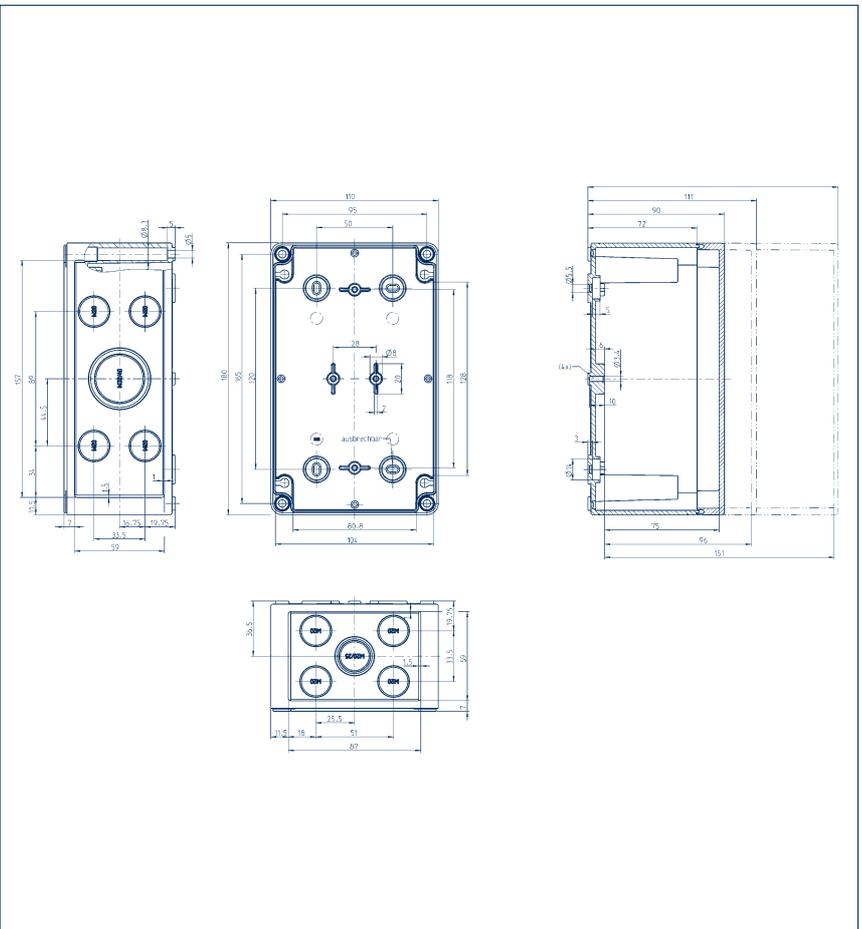


M	A/B	C/D	Knock-outs	A/B	C/D
12	20	12	M20	4	4
16	10	6	M20/25	-	1
20	8	5	M32/40	1	-
25	5	3	-	-	-
32	3	1	-	-	-
40	2	1	-	-	-
50	1	1	-	-	-

#### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 154 mm long	1
<b>Cat. no.</b>	<b>4559.6</b>	
DIN rail section TS 35	TS 35 / 144 mm long	1
<b>Cat. no.</b>	<b>4507.4</b>	
Mounting plate MP	MP /CK 1811	1
<b>Cat. no.</b>	<b>4511.7</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 1811-CK 3625	1
<b>Cat. no.</b>	<b>4512.3</b>	

#### Dimension diagram



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊗ =M32/40

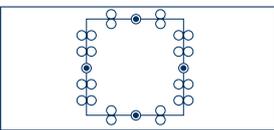
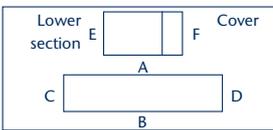
**Polystyrene housing CK 1818/90**  
**Polystyrene housing CK 1818/111**  
**Polystyrene housing CK 1818/165**

Outer dimensions, mm	182 x 180 x 90
Weight, g	475
Outer dimensions, mm	182x 180 x 111
Weight, g	525
Outer dimensions, mm	182 x 180 x 165
Weight, g	675

**Threaded drill hole options**

Without knock-outs

With metric knock-outs



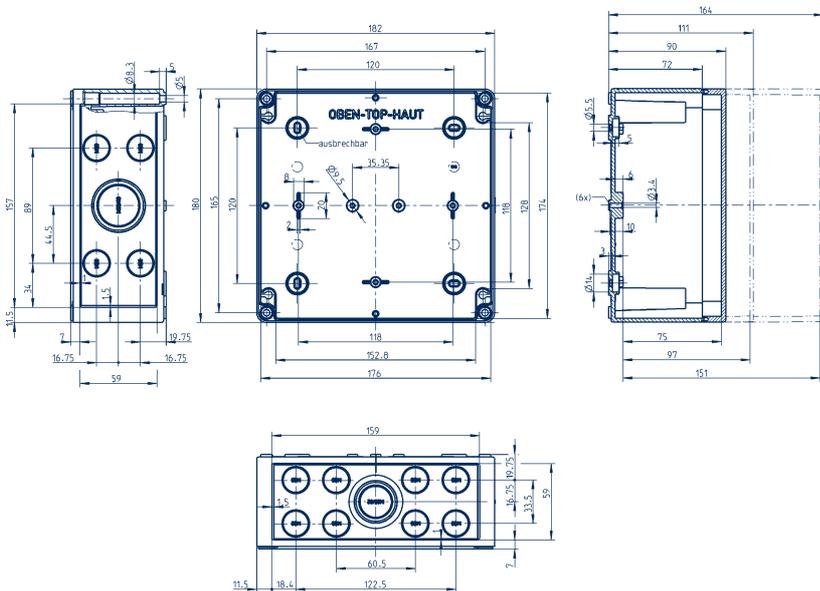
M	A/B	C/D	Knock-outs	A/B	C/D
12	23	20	M20	8	4
16	12	10	M32/40	1	1
20	10	8	-	-	-
25	5	5	-	-	-
32	3	3	-	-	-
40	3	2	-	-	-
50	2	1	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 144 mm long	1
<b>Cat. no.</b>	<b>4507.4</b>	
Mounting plate MP	MP /CK 1818	
<b>Cat. no.</b>	<b>4511.8</b>	1
Wall brackets WL	WL /CK	
<b>Cat. no.</b>	<b>4512.1</b>	1
External hinges (pair) AG	AG/CK 1811-CK 3625	
<b>Cat. no.</b>	<b>4512.3</b>	1

**Dimension diagram**



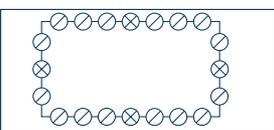
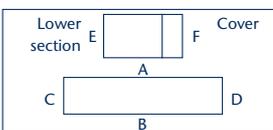
**Polystyrene housing CK 2518/63**  
**Polystyrene housing CK 2518/84**

Outer dimensions, mm	254 x 180 x 63
Weight, g	575
Outer dimensions, mm	254 x 180 x 84
Weight, g	575

**Threaded drill hole options**

Without knock-outs

With metric knock-outs



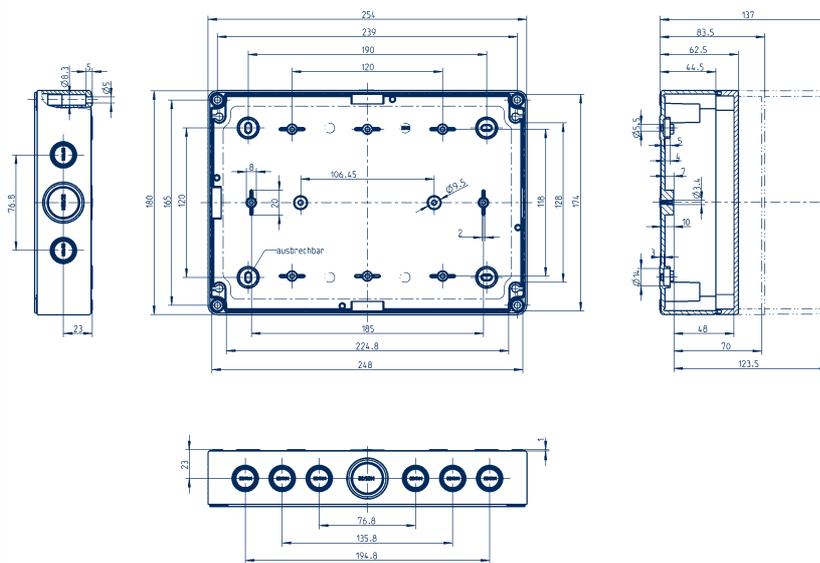
M	A/B	C/D	Knock-out	A/B	C/D
12	22	12	M16/20	6	2
16	10	5	M25/32	1	1
20	7	4	-	-	-
25	6	3	-	-	-
32	1	1	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 144 mm long	1
<b>Cat. no.</b>	<b>4507.4</b>	
Mounting plate MP	MP /CK 2518	
<b>Cat. no.</b>	<b>4511.9</b>	1
Wall brackets WL	WL /CK	
<b>Cat. no.</b>	<b>4512.1</b>	1
External hinges (pair) AG	AG/CK1811-CK 3625	
<b>Cat. no.</b>	<b>4512.3</b>	1

**Dimension diagram**



Knock-outs: ● =M12/16 ○ =M16/20 ○ =M20  
 ⊙ =M20/25 ⊗ =M25/32 ⊙ =M32/40



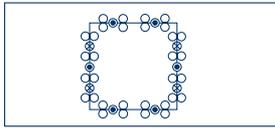
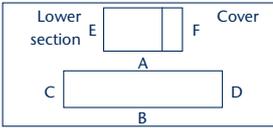
**Polystyrene housing CK 3625/111**  
**Polystyrene housing CK 3625/165**

Outer dimensions, mm	361x 254 x 111
Weight, g	1167
Outer dimensions, mm	361 x 254 x 165
Weight, g	1550

**Threaded drill hole options**

Without knock-outs

With metric knock-outs



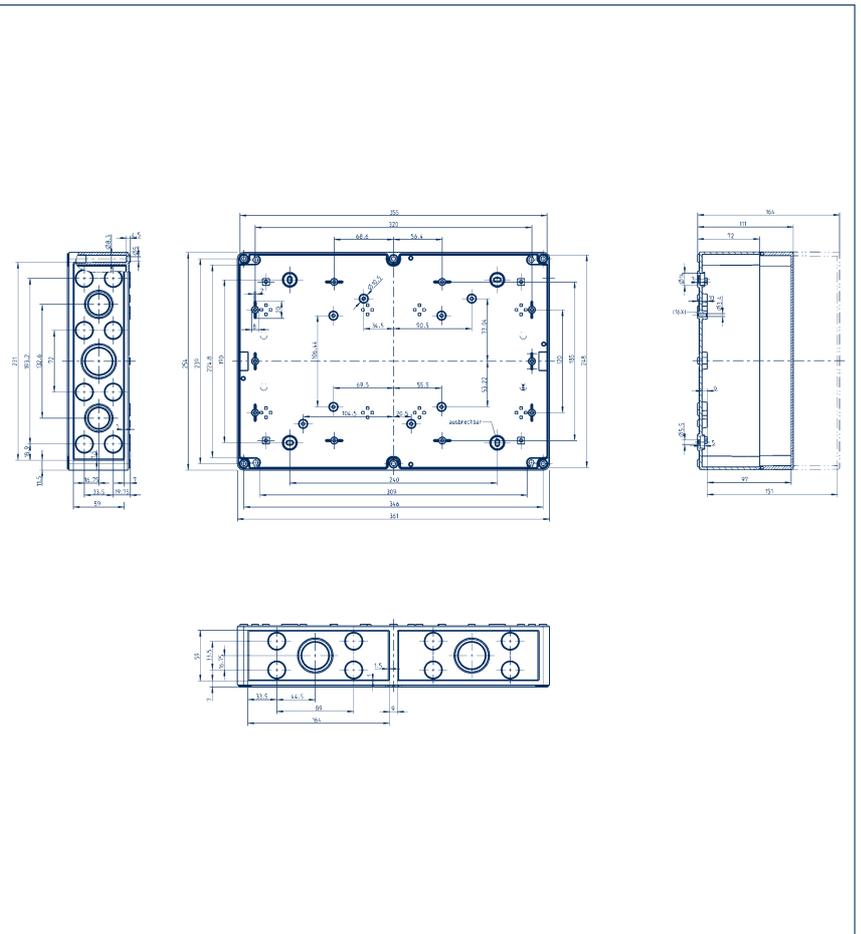
M	A/B	C/D	Knock-out	A/B	C/D
12	42	33	M20	8	8
16	24	18	M25/32	-	2
20	16	14	M32/40	2	1
25	8	11	-	-	-
32	6	5	-	-	-
40	4	4	-	-	-
50	4	3	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 336 mm long	
<b>Cat. no.</b>	<b>4559.8</b>	1
Mounting plate MP	MP /CK 3625	
<b>Cat. no.</b>	<b>4512.0</b>	1
Wall brackets WL	WL /CK	
<b>Cat. no.</b>	<b>4512.1</b>	1
External hinges (pair) AG	AG/CK 1811-CK 3625	
<b>Cat. no.</b>	<b>4512.3</b>	1

**Dimension diagram**



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊙ =M32/40

## Polycarbonate housing CK-PC

### Polycarbonate housing

Material: Glass-fibre reinforced polycarbonate  
 Protection: IP 66  
 Impact resistant  
 A comprehensive line of accessories  
 Metric knock-outs



### Technical data

Material
Protection
Toxicity characteristics
Flamm. class acc. to UL 94
Thermal stability
Chemical resistance
Sea water resistance
UV resistance
Colour
Impact resistance

Polycarbonate
IP66
halogen-free and cadmium-free
V2
-35°C to +80°C
good
very good
good
grey, similar to RAL 7035
IK08 DIN EN 5012

### Outer dimensions

			Dimension diagram
L	W	H	Page
65	50	35	447
65	65	57	447
65	65	81	447
94	65	57	448
94	65	81	448
94	94	57	448
94	94	81	448
110	110	66	449
110	110	90	449
130	94	57	449
130	94	81	449
130	130	75	450
130	130	99	450
180	94	57	450
180	94	81	450
180	110	90	451
180	110	111	451
180	110	165	451
182	180	90	451
182	180	111	451
182	180	165	451
254	180	63	452
254	180	84	452
254	180	90	452
254	180	111	452
254	180	165	452
361	254	111	453
361	254	165	453

### Grey polycarbonate cover with metric knock-outs

Type	Cat. no.
CK-PC 75/35 MV	<b>4370.2</b>
CK-PC 77/57 MV	<b>4372.2</b>
CK-PC 77/81 MV	<b>4374.2</b>
CK-PC 97/57 MV	<b>4376.2</b>
CK-PC 97/81 MV	<b>4378.2</b>
CK-PC 99/57 MV	<b>4380.2</b>
CK-PC 99/81 MV	<b>4382.2</b>
CK-PC 1111/66 MV	<b>4384.2</b>
CK-PC 1111/90 MV	<b>4386.2</b>
CK-PC 1309/57 MV	<b>4388.2</b>
CK-PC 1309/81MV	<b>4390.2</b>
CK-PC 1313/75 MV	<b>4392.2</b>
CK-PC 1313/99 MV	<b>4394.2</b>
CK-PC 1809/57 MV	<b>4396.2</b>
CK-PC 1809/81 MV	<b>4398.2</b>
CK-PC 1811/90 MV	<b>4400.2</b>
CK-PC 1811/111 MV	<b>4402.2</b>
CK-PC 1811/165 MV	<b>4404.2</b>
CK-PC 1818/90 MV	<b>4406.2</b>
CK-PC 1818/111 MV	<b>4408.2</b>
CK-PC 1818/165 MV	<b>4410.2</b>
CK-PC 2518/63 MV	<b>4412.2</b>
CK-PC 2518/84 MV	<b>4416.2</b>
CK-PC 2518/90 MV	<b>4420.2</b>
CK-PC 2518/111 MV	<b>4422.2</b>
CK-PC 2518/165 MV	<b>4424.2</b>
CK-PC 3625/111 MV	<b>4428.2</b>
CK-PC 3625/165 MV	<b>4430.2</b>

### Transparent polycarbonate cover with metric knock-outs

Type	Cat. no.
CK-PC 75/35 MVT	<b>4371.2</b>
CK-PC 77/57 MVT	<b>4373.2</b>
CK-PC 77/81 MVT	<b>4375.2</b>
CK-PC 97/57 MVT	<b>4377.2</b>
CK-PC 97/81 MVT	<b>4379.2</b>
CK-PC 99/57 MVT	<b>4381.2</b>
CK-PC 99/81 MVT	<b>4383.2</b>
CK-PC 1111/66 MVT	<b>4385.2</b>
CK-PC 1111/90 MVT	<b>4387.2</b>
CK-PC 1309/57 MVT	<b>4389.2</b>
CK-PC 1309/81MVT	<b>4391.2</b>
CK-PC 1313/75 MVT	<b>4393.2</b>
CK-PC 1313/99 MVT	<b>4395.2</b>
CK-PC 1809/57 MVT	<b>4397.2</b>
CK-PC 1809/81 MVT	<b>4399.2</b>
CK-PC 1811/90 MVT	<b>4401.2</b>
CK-PC 1811/111 MVT	<b>4403.2</b>
CK-PC 1811/165 MVT	<b>4405.2</b>
CK-PC 1818/90 MVT	<b>4407.2</b>
CK-PC 1818/111 MVT	<b>4409.2</b>
CK-PC 1818/165 MVT	<b>4411.2</b>
CK-PC 2518/63 MVT	<b>4414.2</b>
CK-PC 2518/84 MVT	<b>4418.2</b>
CK-PC 2518/90 MVT	<b>4421.2</b>
CK-PC 2518/111 MVT	<b>4423.2</b>
CK-PC 2518/165 MVT	<b>4425.2</b>
CK-PC 3625/111 MVT	<b>4429.2</b>
CK-PC 3625/165 MVT	<b>4431.2</b>

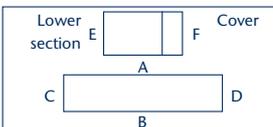
## Polycarbonate housing CK-PC 75/35

Outer dimensions, mm 65 x 50 x 35  
Weight, g 75

### Threaded drill hole options

Without knock-outs

With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	-	-
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

### Accessories

Qty.

DIN rail section TS 15

Cat. no.

DIN rail section TS 35

Cat. no.

Mounting plate MP

MP /CK 1811

Cat. no.

4511.7

1

Exterior mounting plate

ABP /CK

Cat. no.

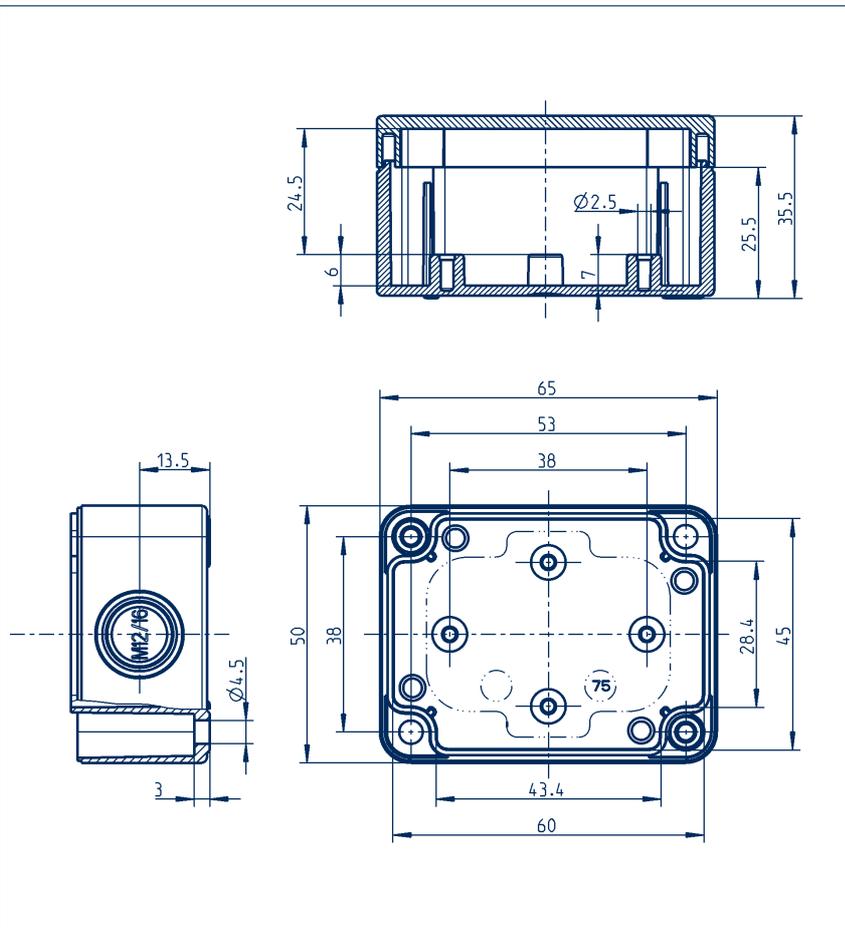
4564.3

1

External hinges (pair) AG

Cat. no.

## Dimension diagram



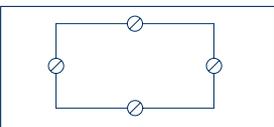
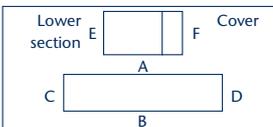
## Polycarbonate housing CK-PC 77/57 Polycarbonate housing CK-PC 77/81

Outer dimensions, mm 65 x 65 x 57  
Weight, g 85  
Outer dimensions, mm 65 x 65 x 81  
Weight, g 120

### Threaded drill hole options

Without knock-outs

With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	1	1
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

### Accessories

Qty.

DIN rail section TS 15

TS 15/49, 5 mm long

Cat. no.

4559.0

1

DIN rail section TS 35

Cat. no.

Mounting plate MP

MP /CK 77

Cat. no.

4511.0

1

Wall brackets WL

WL /CK

Cat. no.

4512.1

1

External hinges (pair) AG

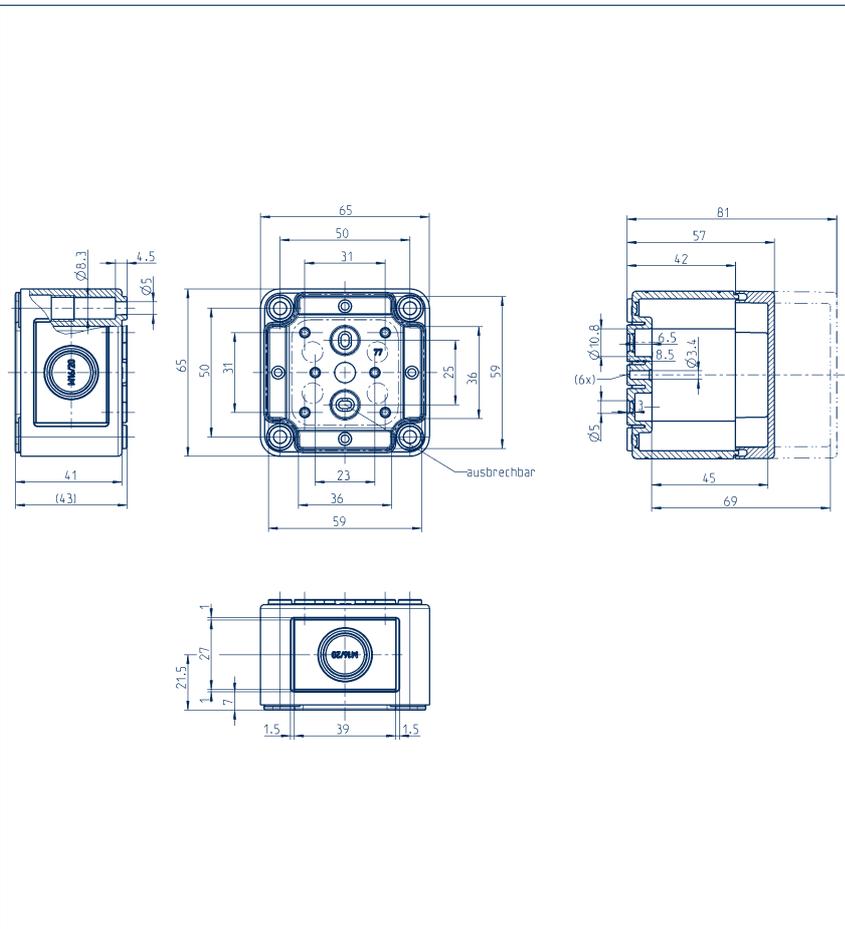
AG/CK 77-CK 1809

Cat. no.

4512.2

1

## Dimension diagram



Knock-outs: ● =M12/16 ○ =M16/20 ○ =M20  
⊙ =M20/25 ⊗ =M25/32 ⊙ =M32/40

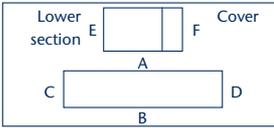
## Polycarbonate housing CK-PC

### Polycarbonate housing CK-PC 97/57 Polycarbonate housing CK-PC 97/81

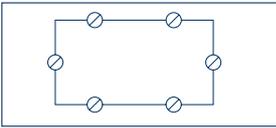
Outer dimensions, mm	94 x 65 x 57
Weight, g	120
Outer dimensions, mm	94 x 65 x 81
Weight, g	147

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

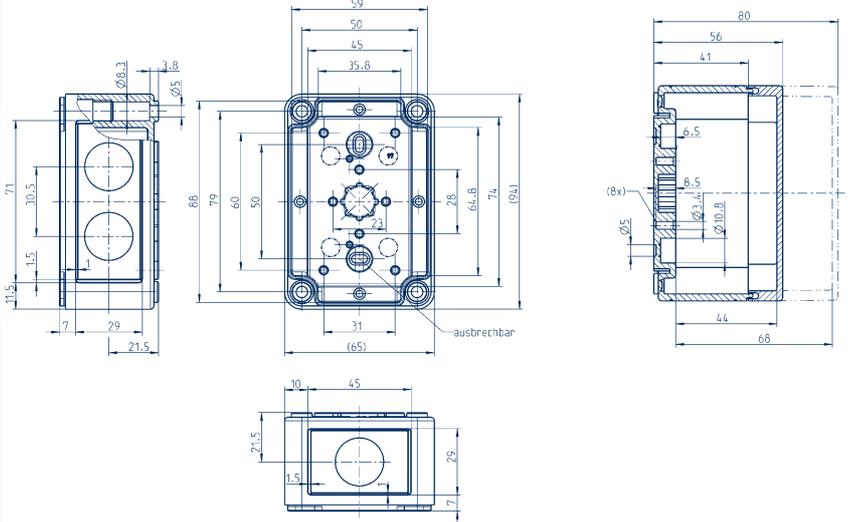


M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	2	1
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

#### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 80 mm long	1
<b>Cat. no.</b>	<b>4559.1</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting plate MP	MP /CK 97	1
<b>Cat. no.</b>	<b>4511.1</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

#### Dimension diagram

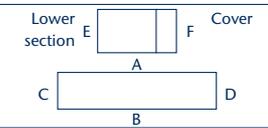


### Polycarbonate housing CK-PC 99/57 Polycarbonate housing CK-PC 99/81

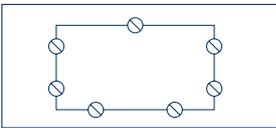
Outer dimensions, mm	94 x 94 x 57
Weight, g	127
Outer dimensions, mm	94 x 94 x 81
Weight, g	193

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

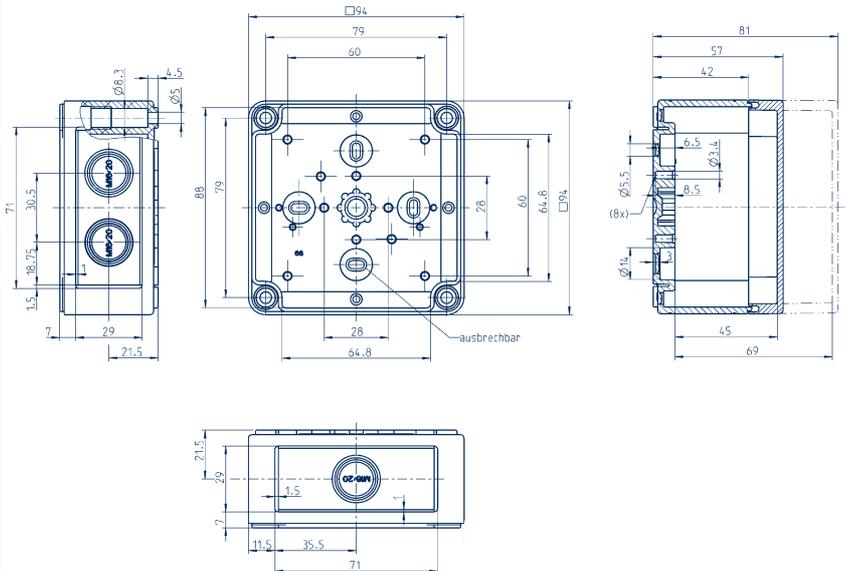


M	A/B	C/D	Knock-outs	A	B/C/D
12	-	-	M16/20	1	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

#### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 80 mm long	1
<b>Cat. no.</b>	<b>4559.1</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting plate MP	MP /CK 99	1
<b>Cat. no.</b>	<b>4511.2</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

#### Dimension diagram



Knock-outs: ● =M12/16    ⊗ =M16/20    ○ =M20  
 ⊙ =M20/25    ⊗ =M25/32    ⊙ =M32/40

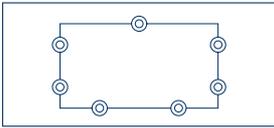
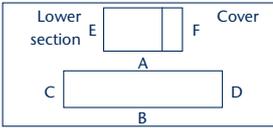
**Polycarbonate housing CK-PC 1111/66**  
**Polycarbonate housing CK-PC 1111/90**

Outer dimensions, mm	110 x 110 x 66
Weight, g	181
Outer dimensions, mm	110 x 110 x 90
Weight, g	242

**Threaded drill hole options**

Without knock-outs

With metric knock-outs



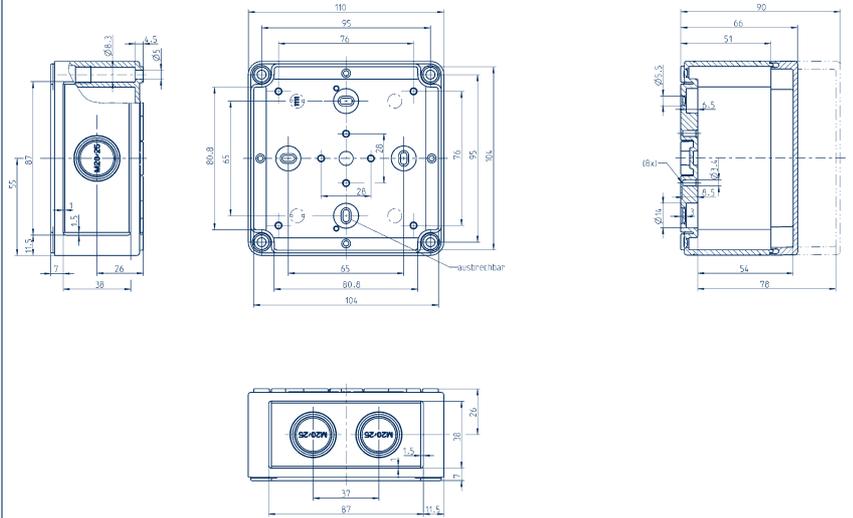
M	A/B	C/D	Knock-outs	A	B/C/D
12	-	-	M20/25	1	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15	TS 15 / 92 mm long	1
<b>Cat. no.</b>	<b>4559.2</b>	
DIN rail section TS 35	TS 35 / 81 mm long	1
<b>Cat. no.</b>	<b>4559.3</b>	
Mounting plate MP	MP /CK 1111	1
<b>Cat. no.</b>	<b>4511.3</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

**Dimension diagram**



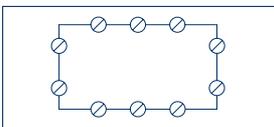
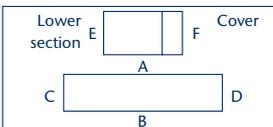
**Polycarbonate housing CK-PC 1309/57**  
**Polycarbonate housing CK-PC 1309/81**

Outer dimensions, mm	130 x 94 x 57
Weight, g	153
Outer dimensions, mm	130 x 94 x 81
Weight, g	200

**Threaded drill hole options**

Without knock-outs

With metric knock-outs



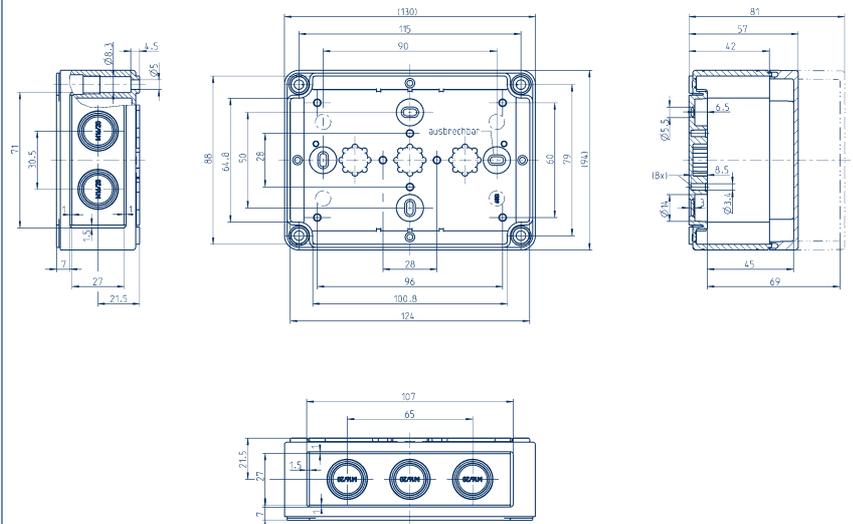
M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	3	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15	TS 15 / 111 mm long	1
<b>Cat. no.</b>	<b>4559.4</b>	
DIN rail section TS 35	TS 35/106 mm long	1
<b>Cat. no.</b>	<b>4559.5</b>	
Mounting plate MP	MP /CK 1309	1
<b>Cat. no.</b>	<b>4511.4</b>	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	<b>4512.1</b>	
External hinges (pair) AG	AG/CK 77-CK 1809	1
<b>Cat. no.</b>	<b>4512.2</b>	

**Dimension diagram**



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊙ =M32/40



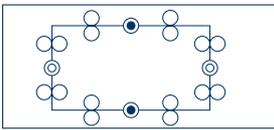
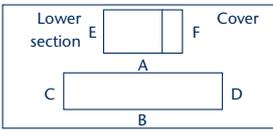
**Polycarbonate housing CK-PC 1811/90**  
**Polycarbonate housing CK-PC 1811/111**  
**Polycarbonate housing CK-PC 1811/165**

Outer dimensions, mm	180 x 110 x 90
Weight, g	344
Outer dimensions, mm	180 x 110 x 111
Weight, g	383
Outer dimensions, mm	180 x 110 x 165
Weight, g	513

**Threaded drill hole options**

**Without knock-outs**

**With metric knock-outs**



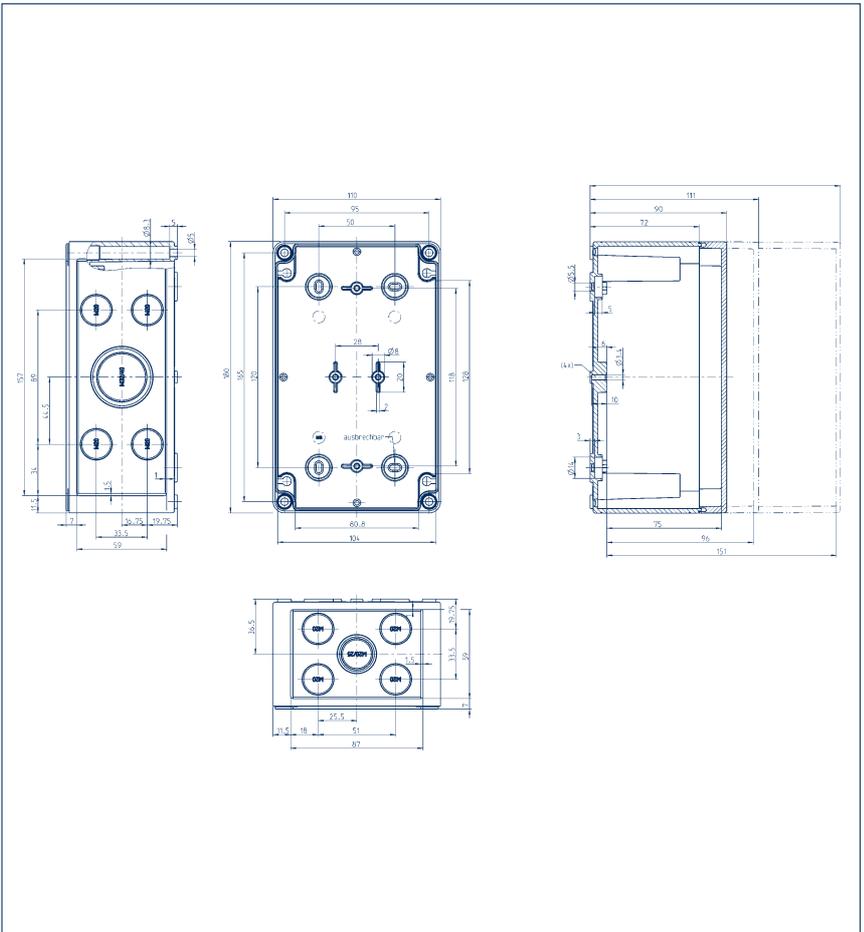
M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M20	4	4
16	-	-	M20/25	-	1
20	-	-	M32/40	1	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 144 mm long	1
<b>Cat. no.</b>	4507.4	
Mounting plate MP	MP /CK 1811	1
<b>Cat. no.</b>	4511.7	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	4512.1	
External hinges (pair) AG	AG/CK 1811-CK 3625	1
<b>Cat. no.</b>	4512.3	

**Dimension diagram**



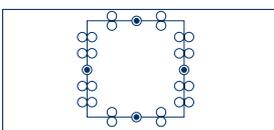
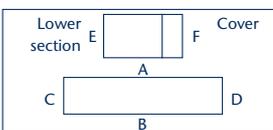
**Polycarbonate housing CK-PC 1818/90**  
**Polycarbonate housing CK-PC 1818/111**  
**Polycarbonate housing CK-PC 1818/165**

Outer dimensions, mm	182 x 180 x 90
Weight, g	475
Outer dimensions, mm	182 x 180 x 111
Weight, g	525
Outer dimensions, mm	182 x 180 x 165
Weight, g	675

**Threaded drill hole options**

**Without knock-outs**

**With metric knock-outs**



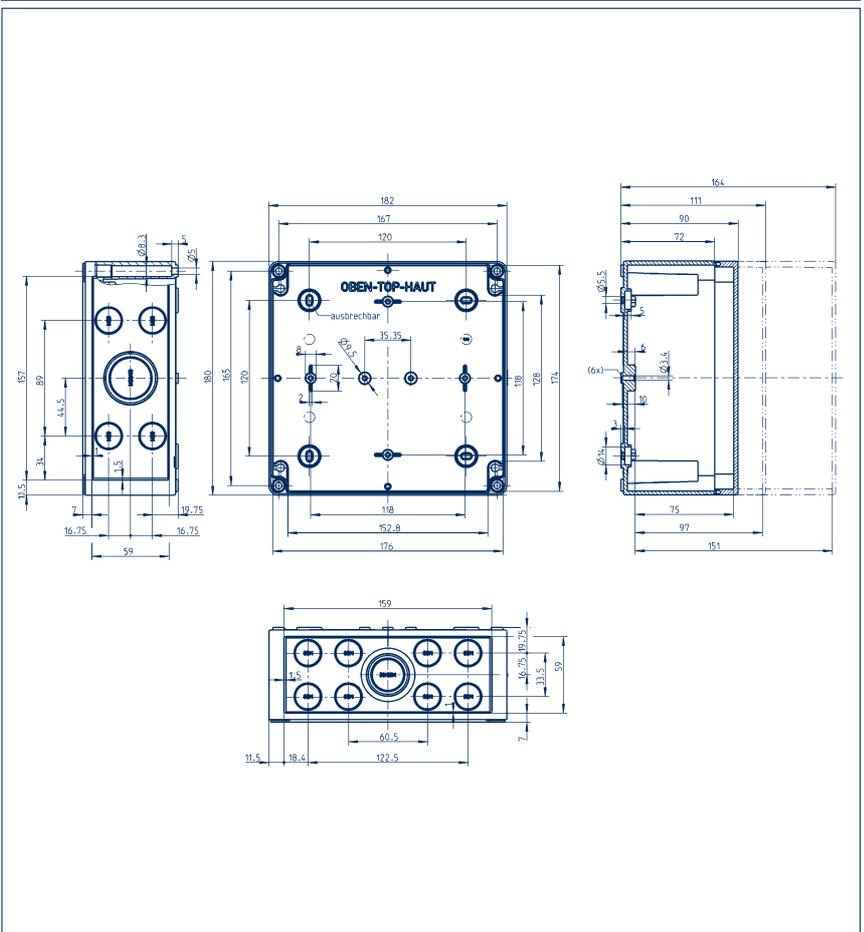
M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M20	8	4
16	-	-	M32/40	1	1
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 144 mm long	1
<b>Cat. no.</b>	4507.4	
Mounting plate MP	MP /CK 1818	1
<b>Cat. no.</b>	4511.8	
Wall brackets WL	WL /CK	1
<b>Cat. no.</b>	4512.1	
External hinges (pair) AG	AG/CK 1811-CK 3625	1
<b>Cat. no.</b>	4512.3	

**Dimension diagram**



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊗ =M32/40

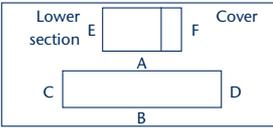
## Polycarbonate housing CK-PC

### Polycarbonate housing CK-PC 2518/63 Polycarbonate housing CK-PC 2518/84

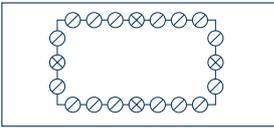
Outer dimensions, mm	254 x 180 x 63
Weight, g	575
Outer dimensions, mm	254 x 180 x 84
Weight, g	575

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

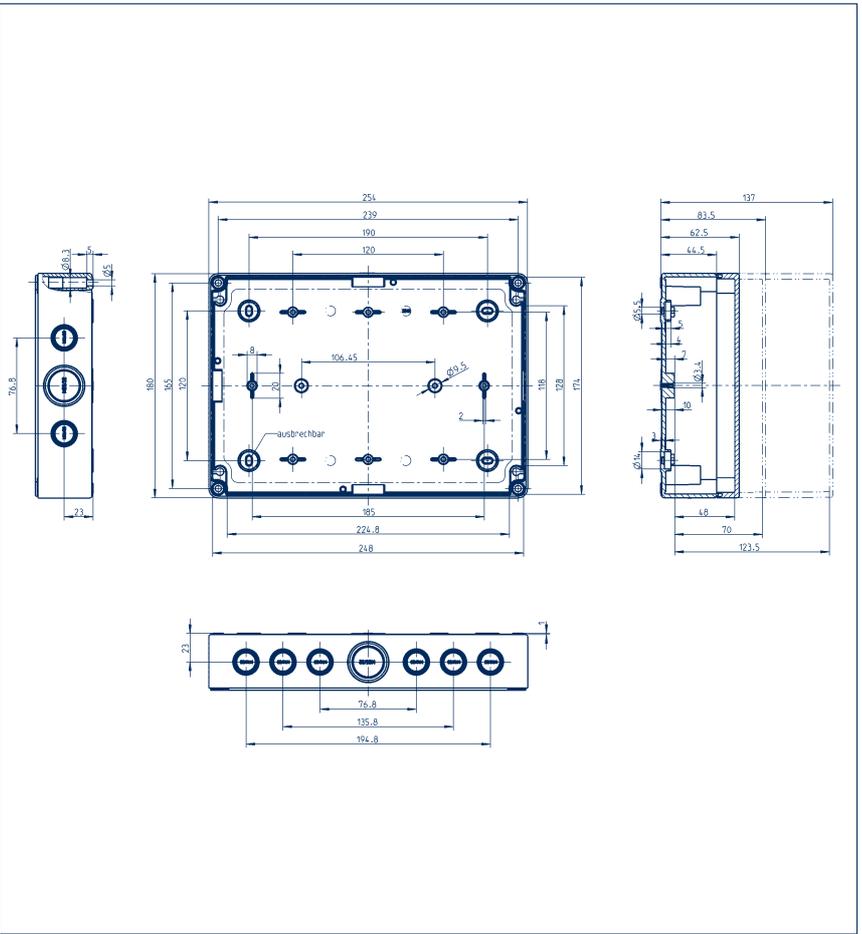


M	A/B	C/D	Knock-outs	A/B	C/D
12	22	12	M16/20	6	2
16	10	5	M25/30	1	1
20	7	4	-	-	-
25	6	3	-	-	-
32	1	1	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

#### Accessories

	Qty.
DIN rail section TS 15	1
<b>Cat. no.</b>	
DIN rail section TS 35	1
<b>Cat. no.</b>	4507.4
Mounting plate MP	1
<b>Cat. no.</b>	4511.9
Wall brackets WL	1
<b>Cat. no.</b>	4512.1
External hinges (pair) AG	1
<b>Cat. no.</b>	4512.3

### Dimension diagram

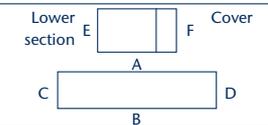


### Polycarbonate housing CK-PC 2518/90 Polycarbonate housing CK-PC 2518/111 Polycarbonate housing CK-PC 2518/165

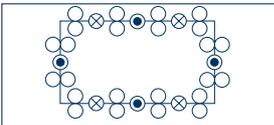
Outer dimensions, mm	254 x 180 x 90
Weight, g	638
Outer dimensions, mm	254 x 180 x 111
Weight, g	700
Outer dimensions, mm	254 x 180 x 165
Weight, g	850

#### Threaded drill hole options

##### Without knock-outs



##### With metric knock-outs

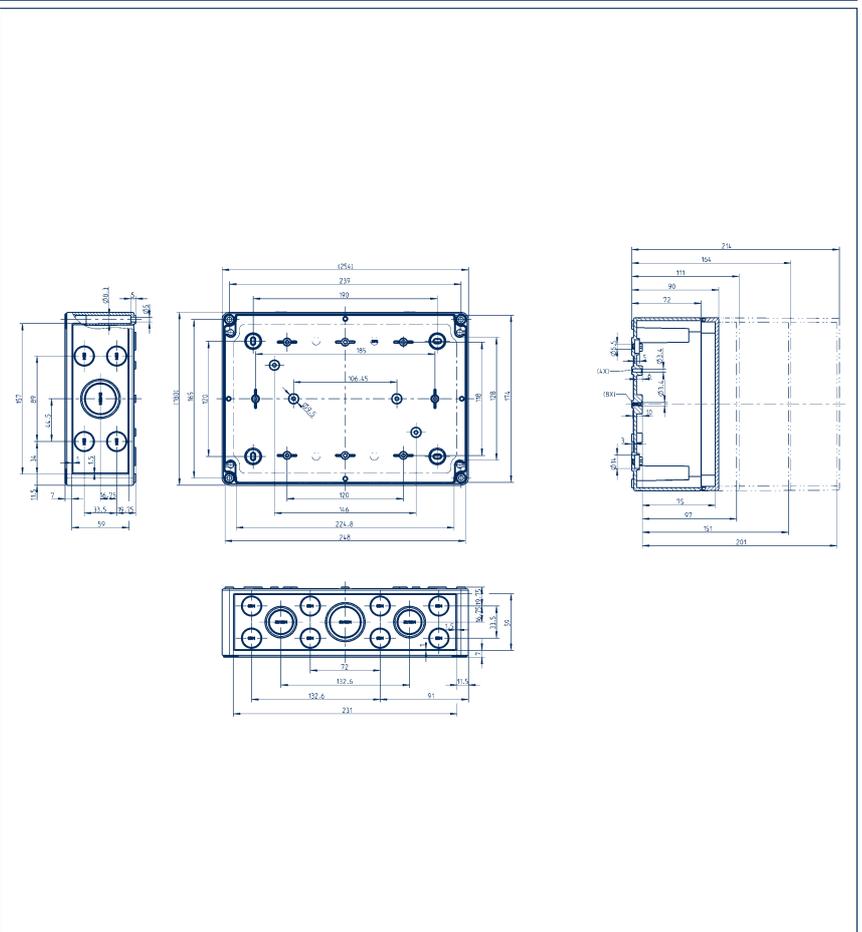


M	A/B	C/D	Knock-outs	A/B	C/D
12	33	20	M20	8	4
16	18	10	M25/32	2	-
20	14	8	M32/40	1	1
25	11	5	-	-	-
32	5	3	-	-	-
40	4	2	-	-	-
50	3	1	-	-	-

#### Accessories

	Qty.
DIN rail section TS 15	1
<b>Cat. no.</b>	
DIN rail section TS 35	1
<b>Cat. no.</b>	4507.4
Mounting plate MP	1
<b>Cat. no.</b>	4511.9
Wall brackets WL	1
<b>Cat. no.</b>	4512.1
External hinges (pair) AG	1
<b>Cat. no.</b>	4512.3

### Dimension diagram



Knock-outs: ● = M12/16    ⊙ = M16/20    ○ = M20  
 ⊙ = M20/25    ⊗ = M25/32    ⊙ = M32/40

**Polycarbonate housing CK-PC 3625/111**  
**Polycarbonate housing CK-PC 3625/165**

Outer dimensions, mm 361 x 254 x 111

Weight, g 1167

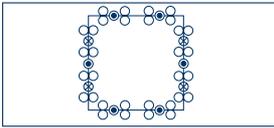
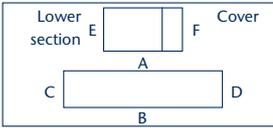
Outer dimensions, mm 361 x 254 x 165

Weight, g 1550

**Threaded drill hole options**

**Without knock-outs**

**With metric knock-outs**



M	A/B	C/D	Knock-outs	A/B	C/D
12	42	33	M20	8	8
16	24	18	M25/30	-	2
20	16	14	M32/40	2	1
25	8	11	-	-	-
32	6	5	-	-	-
40	4	4	-	-	-
50	4	3	-	-	-

**Accessories**

**Qty.**

DIN rail section TS 15

**Cat. no.**

DIN rail section TS 35

TS 35 / 336 mm long

**Cat. no.**

**4559.8**

1

Mounting plate MP

MP /CK 3625

**Cat. no.**

**4512.0**

1

Wall brackets WL

WL /CK

**Cat. no.**

**4512.1**

1

External hinges (pair) AG

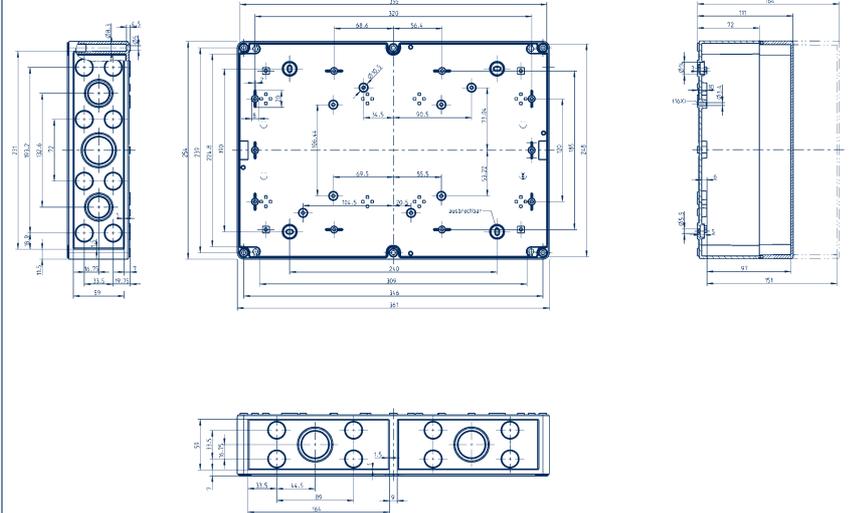
AG/CK 1811-CK 3625

**Cat. no.**

**4512.3**

1

**Dimension diagram**



Knock-outs: ● =M12/16    ⊙ =M16/20    ○ =M20  
 ⊗ =M20/25    ⊗ =M25/32    ⊙ =M32/40

## Polyester housing CP

### Polyester housing

Material: Glass-fibre reinforced duro-plastic polyester  
 Protection: IP 66  
 Heavy-duty plastic  
 A comprehensive line of accessories



### Technical data

Material	Polyester
Protection	IP66
Toxicity characteristics	Halogen-free
Flamm. class acc. to UL 94	V0
Thermal stability	-40°C to +90°C
Chemical resistance	good
Sea water resistance	very good
UV resistance	good
Colour	grey, similar to RAL 7000
Impact resistance	> 7 Joule, EN50014

### Outer dimensions

L	W	H	Dimension diagram Page
55	55	37	455
55	55	59	455
80	75	55	456
80	75	75	456
110	75	55	457
110	75	75	457
122	120	90	458
160	75	55	458
160	75	75	459
160	160	90	459
190	75	55	460
190	75	75	460
220	120	90	461
230	75	55	461
230	75	75	462
255	250	120	462
260	160	90	463
360	160	90	463
400	250	120	464
400	405	120	464

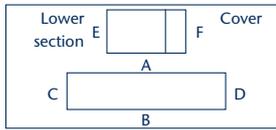
### Grey polycarbonate cover with metric knock-outs

Type	Cat. no.
CP 55/37	<b>4432.1</b>
CP 55/59	<b>4433.1</b>
CP 80/55	<b>4020.1</b>
CP 80/75	<b>4439.1</b>
CP 110/55	<b>4021.1</b>
CP 110/75	<b>4434.1</b>
CP 122/90	<b>4024.1</b>
CP 160/55	<b>4022.1</b>
CP 160/75	<b>4435.1</b>
CP 160/90	<b>4025.1</b>
CP 190/55	<b>4023.1</b>
CP 190/75	<b>4436.1</b>
CP 220/90	<b>4026.1</b>
CP 230/55	<b>4437.1</b>
CP 230/75	<b>4198.1</b>
CP 255/120	<b>4029.1</b>
CP 260/90	<b>4027.1</b>
CP 360/90	<b>4028.1</b>
CP 400/120	<b>4030.1</b>
CP 400/120-2	<b>4031.1</b>

## Polyester housing CP 55/37

Outer dimensions, mm	55 x 55 x 37
Weight, g	100

### Threaded drill hole options



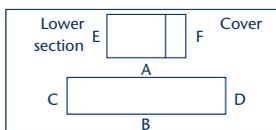
M	A/B	C/D	PG	A/B	C/D
12	2	2	7	2	2
16	1	1	9	1	1
20	-	-	11	-	-
25	-	-	13.5	-	-
32	-	-	16	-	-
40	-	-	21	-	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 42 mm long		1
<b>Cat. no.</b>	<b>4567.0</b>		
Mounting screw BS	BS M 3x5		
<b>Cat. no.</b>	<b>4556.0</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting plate MP			
<b>Cat. no.</b>			
Wall brackets WL			
<b>Cat. no.</b>			
External hinges (pair) AG			
<b>Cat. no.</b>			

## Polyester housing CP55/59

Outer dimensions, mm	55 x 55 x 59
Weight, g	130

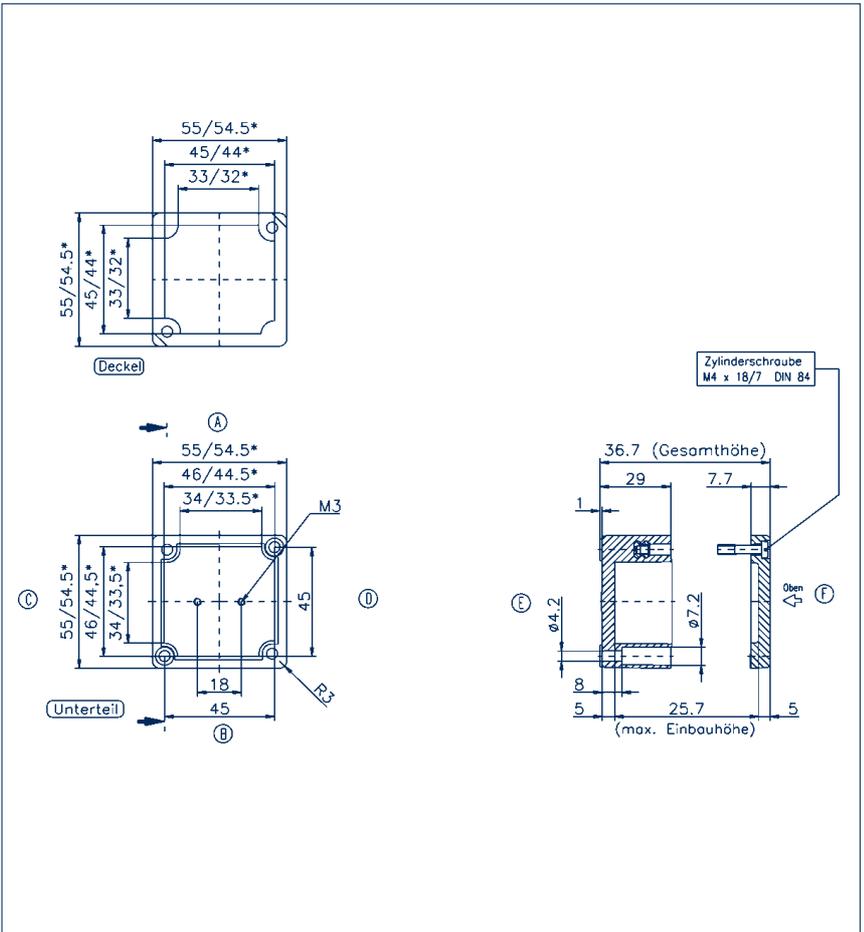
### Threaded drill hole options



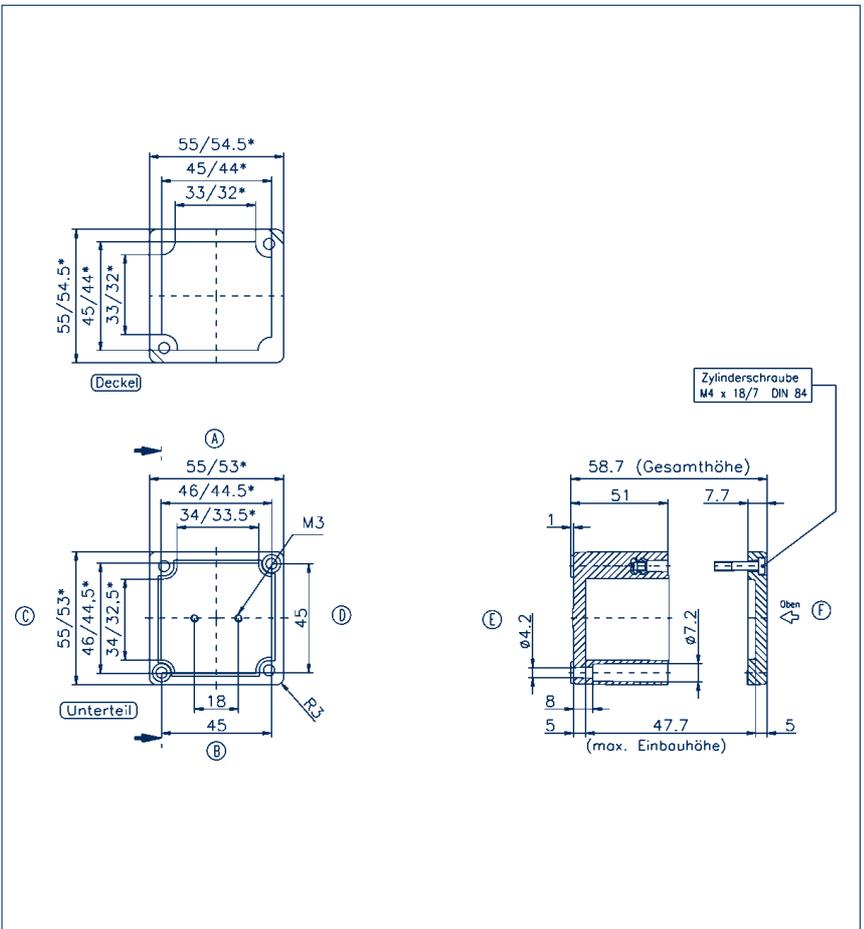
M	A/B	C/D	PG	A/B	C/D
12	5	5	7	5	5
16	2	2	9	3	3
20	1	1	11	2	2
25	1	1	13.5	1	1
32	1	1	16	1	1
40	-	-	21	1	1
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 42 mm long		1
<b>Cat. no.</b>	<b>4567.0</b>		
Mounting screw BS	BS M 3x5		
<b>Cat. no.</b>	<b>4556.0</b>		100
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting plate MP			
<b>Cat. no.</b>			
Wall brackets WL			
<b>Cat. no.</b>			
External hinges (pair) AG			
<b>Cat. no.</b>			

## Dimension diagram



## Dimension diagram

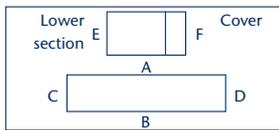


## Polyester housing CP

### Polyester housing CP 80/55

Outer dimensions, mm 80 x 75 x 55  
Weight, g 230

#### Threaded drill hole options



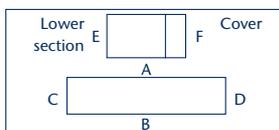
M	A/B	C/D	PG	A/B	C/D
12	6	3	7	6	3
16	2	1	9	4	1
20	2	1	11	2	1
25	1	-	13.5	2	1
32	-	-	16	2	1
40	-	-	21	1	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 68 mm long		1
<b>Cat. no.</b>	<b>4507.8</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting screw BS	BS M 4x5		100
<b>Cat. no.</b>	<b>4557.0</b>		
Mounting plate MP			
<b>Cat. no.</b>			
Wall brackets WL	WL (Set)		1
<b>Cat. no.</b>	<b>4509.3</b>		
External hinges (pair) AG			
<b>Cat. no.</b>			

### Polyester housing CP 80/75

Outer dimensions, mm 80 x 75 x 75  
Weight, g 300

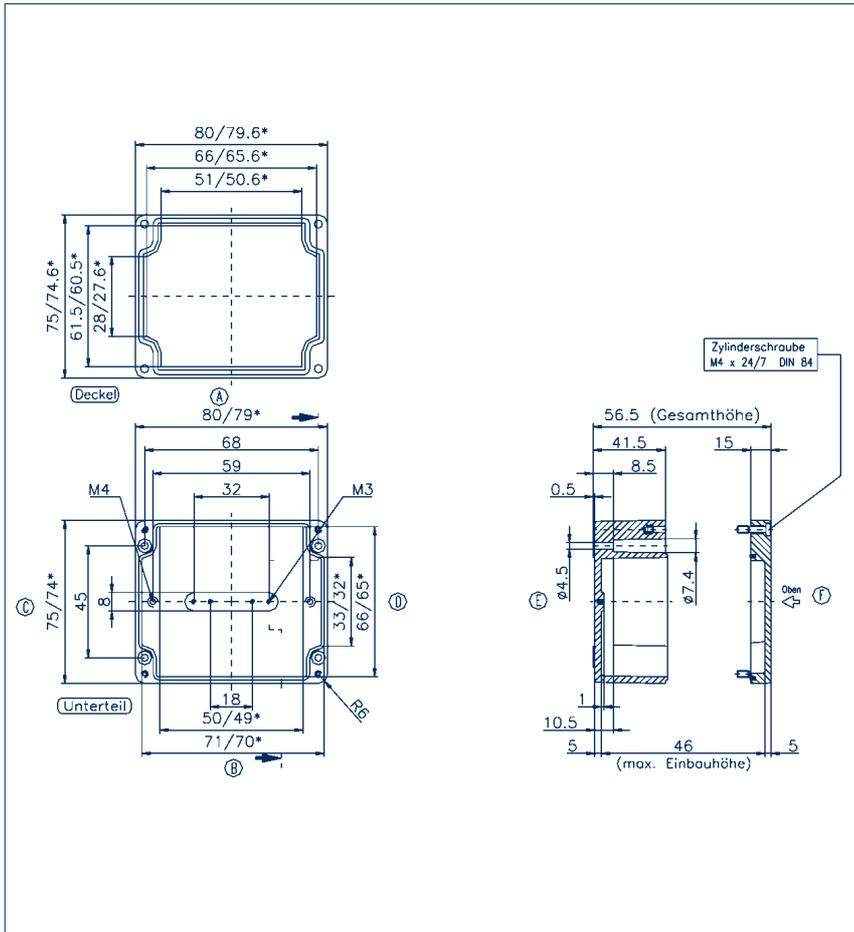
#### Threaded drill hole options



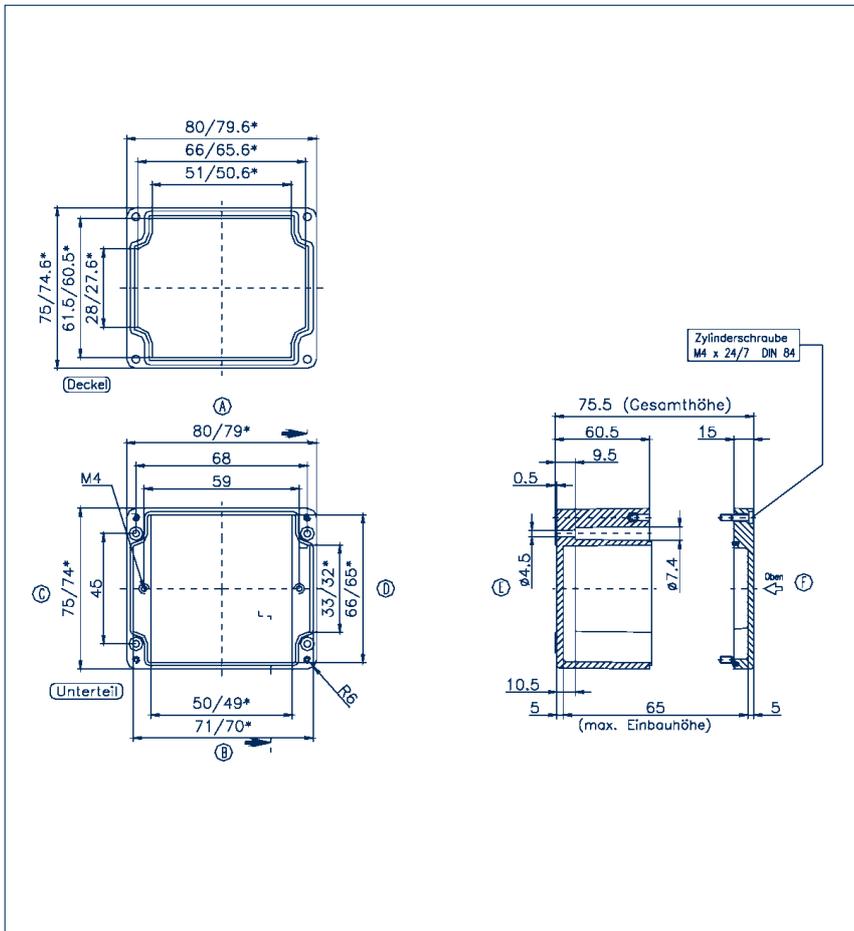
M	A/B	C/D	PG	A/B	C/D
12	9	5	7	9	5
16	5	2	9	6	3
20	4	2	11	4	2
25	1	1	13.5	4	2
32	1	1	16	3	1
40	-	-	21	1	1
50	-	-	29	1	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 68 mm long		1
<b>Cat. no.</b>	<b>4507.8</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting screw BS	BS M 4x5		100
<b>Cat. no.</b>	<b>4557.0</b>		
Mounting plate MP			
<b>Cat. no.</b>			
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4509.3</b>		
External hinges (pair) AG			
<b>Cat. no.</b>			

### Dimension diagram



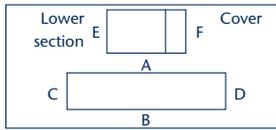
### Dimension diagram



## Polyester housing CP 110/55

Outer dimensions, mm	110 x 75 x 55
Weight, g	295

### Threaded drill hole options



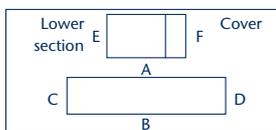
M	A/B	C/D	PG	A/B	C/D
12	10	3	7	10	3
16	4	1	9	6	1
20	3	1	11	4	1
25	2	-	13.5	3	1
32	-	-	16	3	1
40	-	-	21	2	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 98 mm long	1
<b>Cat. no.</b>	<b>4507.9</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting screw BS	BS M 4x5	100
<b>Cat. no.</b>	<b>4557.0</b>	
Mounting plate MP	MP / P 110	1
<b>Cat. no.</b>	<b>4500.3</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.3</b>	
External hinges (pair) AG		
<b>Cat. no.</b>		

## Polyester housing CP 110/75

Outer dimensions, mm	110 x 75 x 75
Weight, g	360

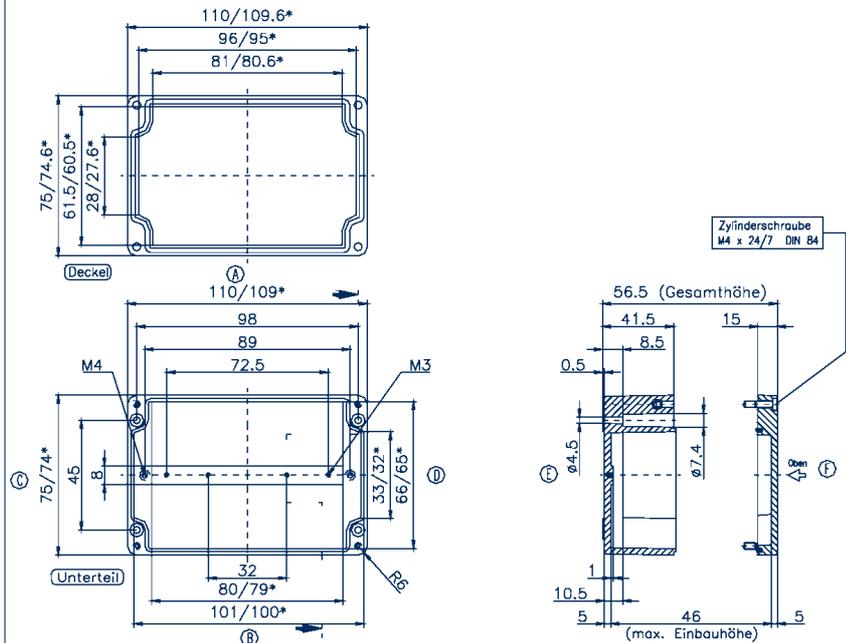
### Threaded drill hole options



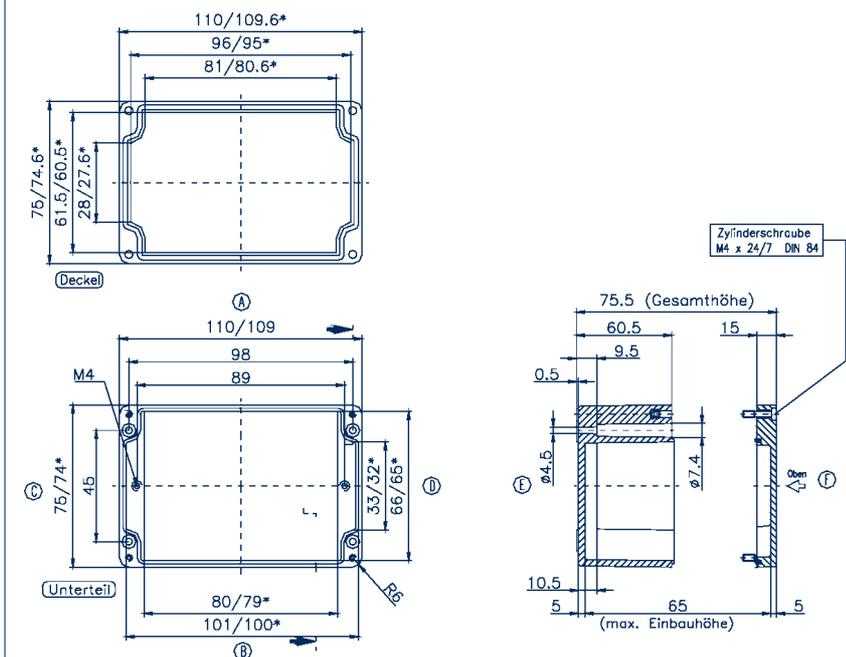
M	A/B	C/D	PG	A/B	C/D
12	15	5	7	15	5
16	6	2	9	9	3
20	6	1	11	6	2
25	2	1	13.5	6	1
32	2	1	16	5	1
40	-	-	21	2	1
50	-	-	29	2	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 98 mm long	1
<b>Cat. no.</b>	<b>4507.9</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting screw BS	BS M 4x5	100
<b>Cat. no.</b>	<b>4557.0</b>	
Mounting plate MP		
<b>Cat. no.</b>		
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.3</b>	
External hinges (pair) AG		
<b>Cat. no.</b>		

## Dimension diagram



## Dimension diagram

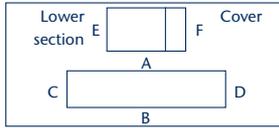


**Polyester housing CP**

**Polyester housing CP 122/90**

Outer dimensions, mm	122 x 120 x 90
Weight, g	750

**Threaded drill hole options**



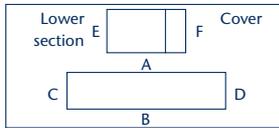
M	A/B	C/D	PG	A/B	C/D
12	18	12	7	18	12
16	8	5	9	12	6
20	6	4	11	8	5
25	3	2	13.5	6	4
32	2	1	16	6	3
40	1	1	21	3	2
50	-	-	29	2	1
63	-	-	36	1	1
-	-	-	42	-	-

Accessories	Qty.
DIN rail section TS 15	1
<b>Cat. no.</b>	
DIN rail section TS 35	TS 15 / 108 mm long
<b>Cat. no.</b>	<b>4507.1</b>
Mounting screw BS	BS M 6x8
<b>Cat. no.</b>	<b>4558.0</b>
Mounting plate MP	MP /P 122
<b>Cat. no.</b>	<b>4503.0</b>
Wall brackets WL	WL (Set)
<b>Cat. no.</b>	<b>4509.4</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4509.6</b>

**Polyester housing CP 160/55**

Outer dimensions, mm	160 x 75 x 55
Weight, g	405

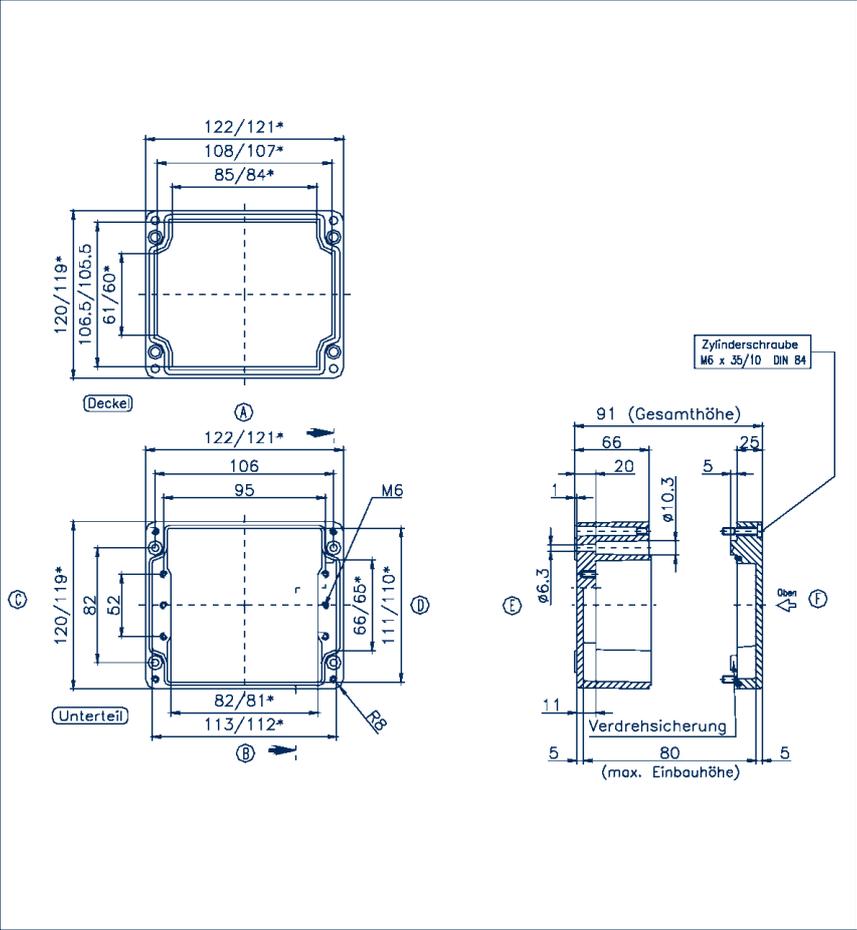
**Threaded drill hole options**



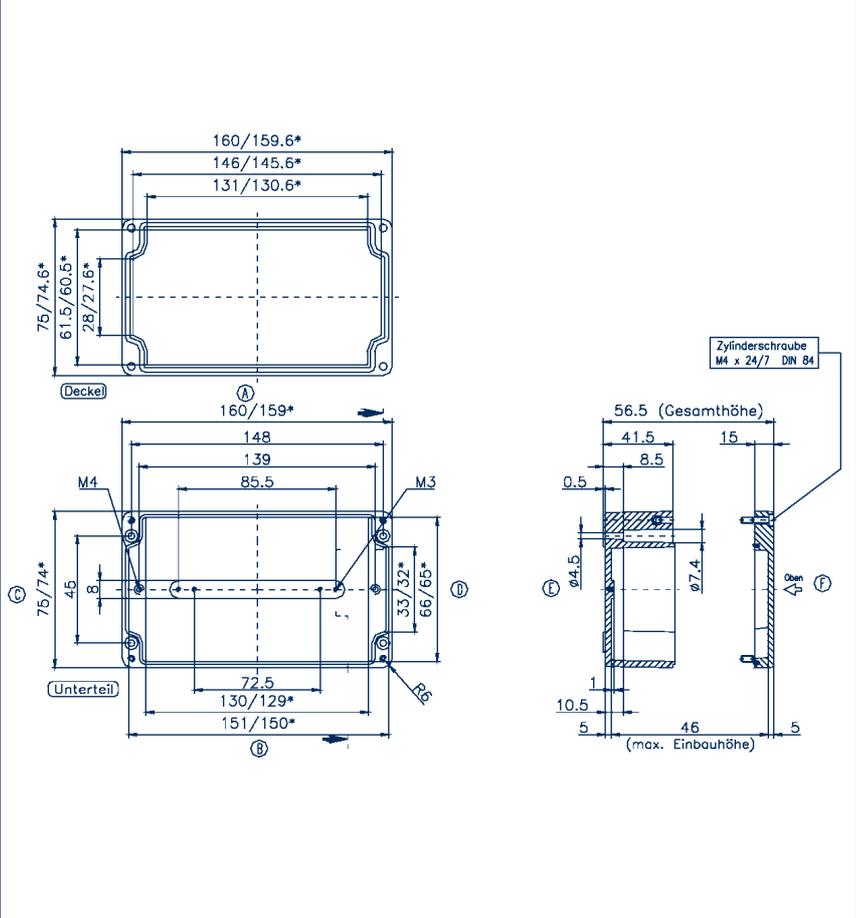
M	A/B	C/D	PG	A/B	C/D
12	16	3	7	16	2
16	6	1	9	9	1
20	5	1	11	6	1
25	3	-	13.5	5	1
32	-	-	16	4	1
40	-	-	21	3	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories	Qty.
DIN rail section TS 15	TS 15 / 148 mm long
<b>Cat. no.</b>	<b>4508.0</b>
DIN rail section TS 35	
<b>Cat. no.</b>	
Mounting screw BS	BS M 4x5
<b>Cat. no.</b>	<b>4557.0</b>
Mounting plate MP	MP /P 160/5
<b>Cat. no.</b>	<b>4501.1</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4509.3</b>
External hinges (pair) AG	
<b>Cat. no.</b>	

**Dimension diagram**



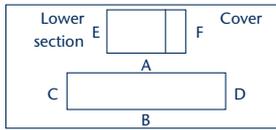
**Dimension diagram**



## Polyester housing CP 160/75

Outer dimensions, mm	160 x 75 x 75
Weight, g	460

### Threaded drill hole options



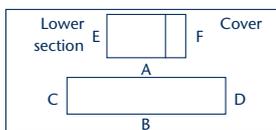
M	A/B	C/D	PG	A/B	C/D
12	18	5	7	18	5
16	8	2	9	11	3
20	8	2	11	8	2
25	3	1	13.5	8	2
32	2	1	16	5	1
40	-	-	21	3	1
50	-	-	29	2	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15			
Cat. no.			
DIN rail section TS 35	TS 35 / 144 mm long		1
Cat. no.	4507.4		
Mounting screw BS	BS M 4x5		100
Cat. no.	4557.0		
Mounting plate MP			
Cat. no.			
Wall brackets WL	WL (set)		1
Cat. no.	4509.3		
External hinges (pair) AG			
Cat. no.			

## Polyester housing CP 160/90

Outer dimensions, mm	160 x 160 x 90
Weight, g	1290

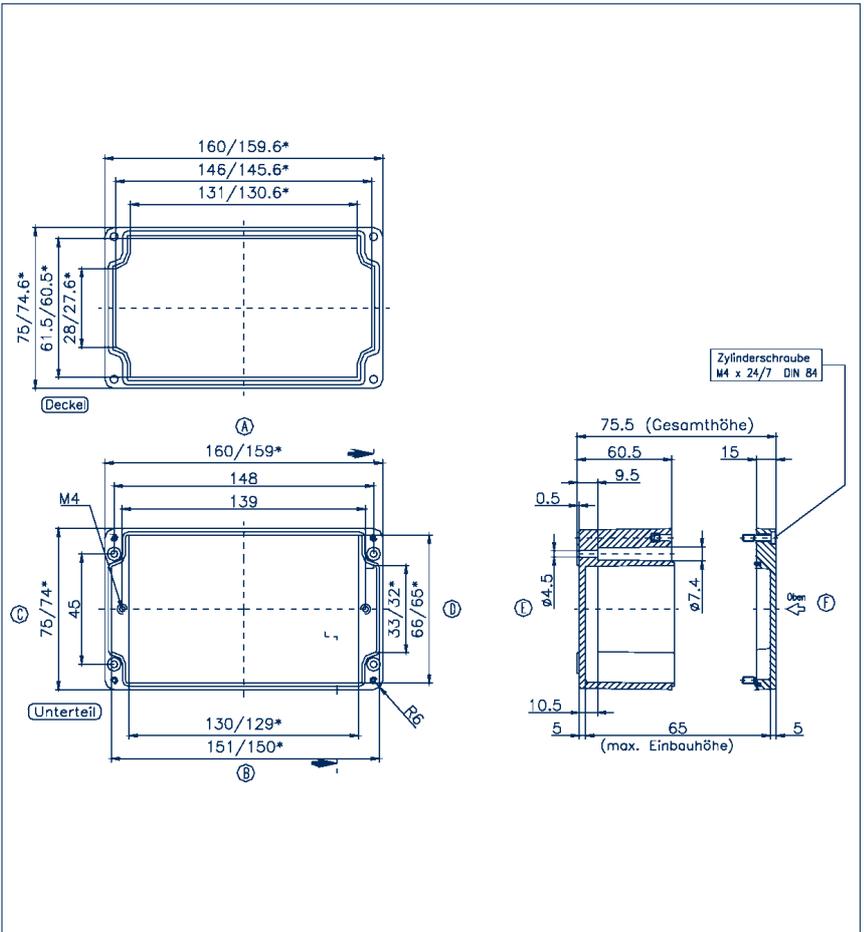
### Threaded drill hole options



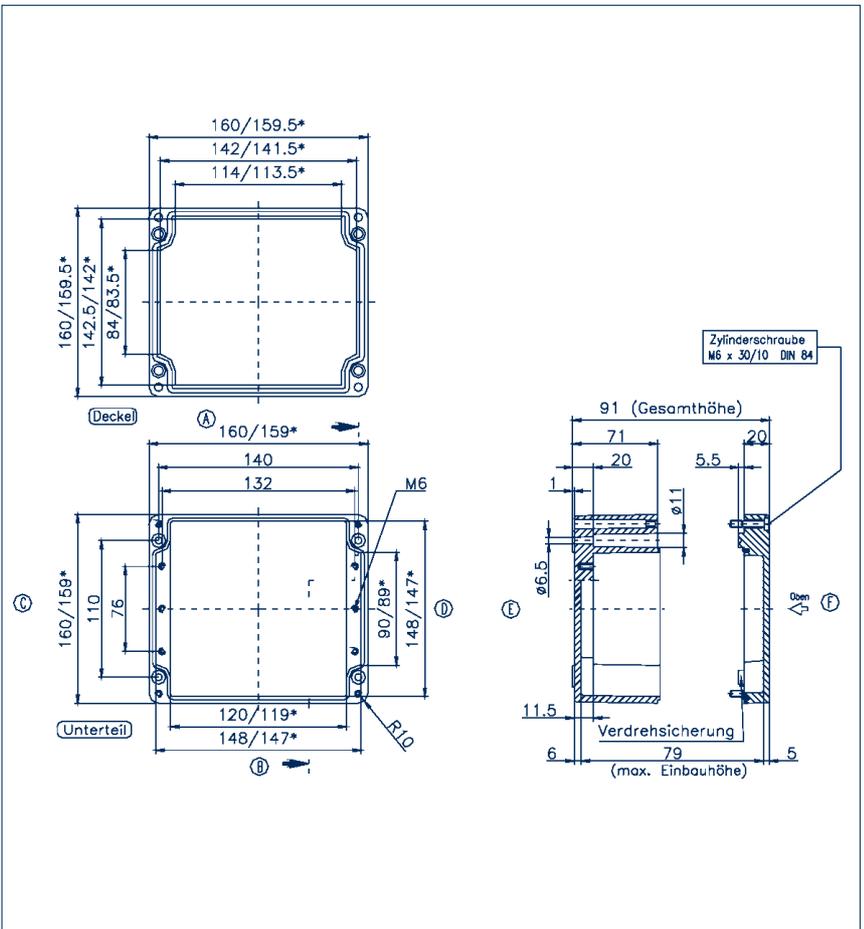
M	A/B	C/D	PG	A/B	C/D
12	26	18	7	26	18
16	14	8	9	15	12
20	9	6	11	12	8
25	6	3	13.5	9	6
32	3	2	16	8	6
40	2	1	21	6	3
50	2	1	29	2	2
63	-	-	36	2	1
-	-	-	42	1	-

Accessories			Qty.
DIN rail section TS 15			
Cat. no.			
DIN rail section TS 35	TS 35 / 144 mm long		1
Cat. no.	4507.4		
Mounting screw BS	BS M 6x8		100
Cat. no.	4558.0		
Mounting plate MP	MP / P 160/9		1
Cat. no.	4503.2		
Wall brackets WL	WL (set)		1
Cat. no.	4509.4		
External hinges (pair) AG	AG (pair)		1
Cat. no.	4509.6		

## Dimension diagram



## Dimension diagram

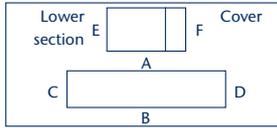


**Polyester housing CP**

**Polyester housing CP 190/55**

Outer dimensions, mm	190 x 75 x 55
Weight, g	450

**Threaded drill hole options**



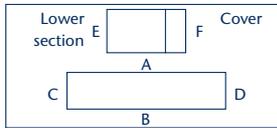
M	A/B	C/D	PG	A/B	C/D
12	20	4	7	20	4
16	8	1	9	15	2
20	7	1	11	8	1
25	4	1	13.5	7	1
32	-	-	16	6	1
40	-	-	21	4	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 178 mm long		1
<b>Cat. no.</b>	<b>4508.1</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting screw BS	BS M 4x5		100
<b>Cat. no.</b>	<b>4557.0</b>		
Mounting plate MP	MP /P 190		1
<b>Cat. no.</b>	<b>4502.8</b>		
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4509.3</b>		
External hinges (pair) AG			
<b>Cat. no.</b>			

**Polyester housing CP 190/75**

Outer dimensions, mm	190 x 75 x 75
Weight, g	530

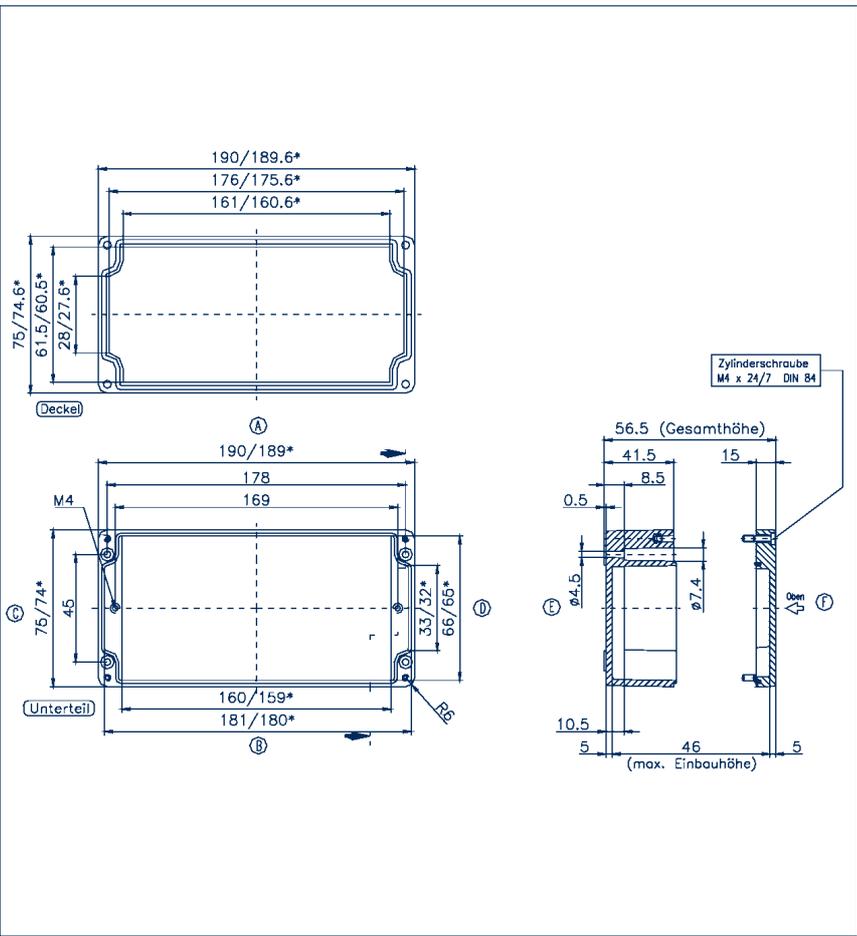
**Threaded drill hole options**



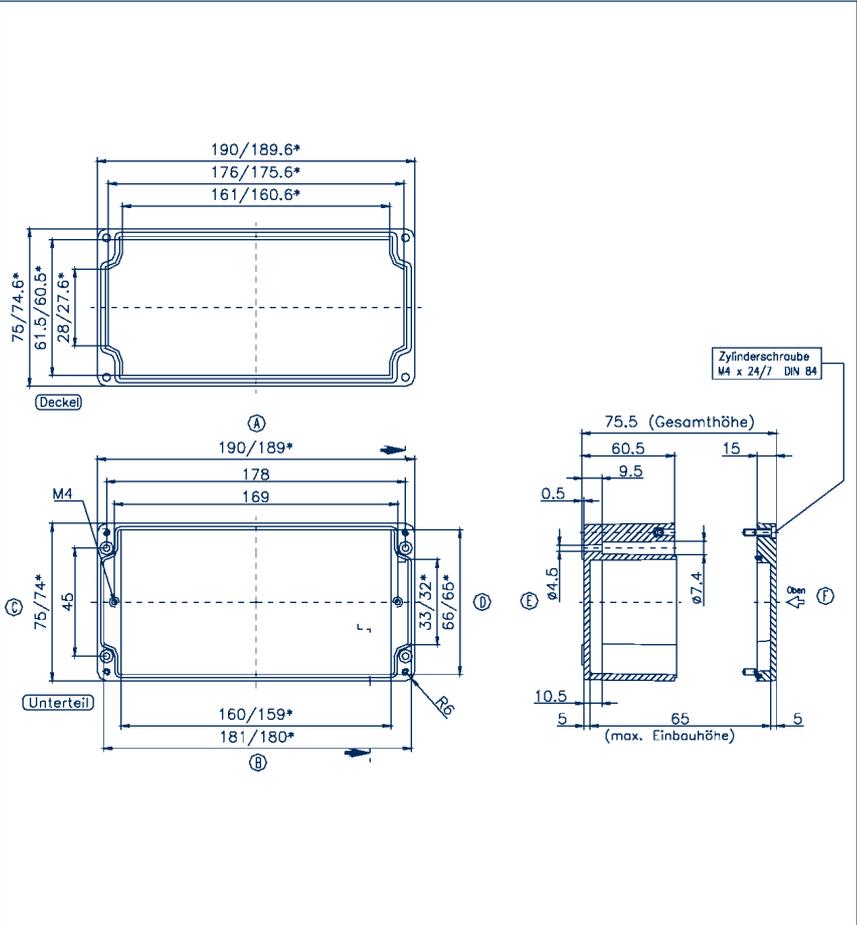
M	A/B	C/D	PG	A/B	C/D
12	28	6	7	27	5
16	12	2	9	18	3
20	12	2	11	12	2
25	5	1	13.5	12	2
32	3	1	16	10	1
40	-	-	21	5	1
50	-	-	29	3	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 178 mm long		1
<b>Cat. no.</b>	<b>4508.1</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting screw BS	BS M 4x5		100
<b>Cat. no.</b>	<b>4557.0</b>		
Mounting plate MP	MP /P 190		1
<b>Cat. no.</b>	<b>4502.8</b>		
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4509.3</b>		
External hinges (pair) AG			
<b>Cat. no.</b>			

**Dimension diagram**



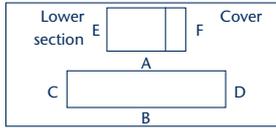
**Dimension diagram**



## Polyester housing CP 220/90

Outer dimensions, mm 220 x 120 x 90  
Weight, g 1060

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	38	12	7	36	12
16	17	5	9	24	6
20	14	4	11	15	5
25	7	2	13.5	14	4
32	4	1	16	12	3
40	3	1	21	6	2
50	-	-	29	4	1
63	-	-	36	3	1
-	-	-	42	-	-

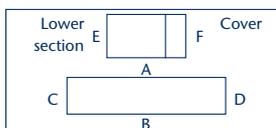
### Accessories

Accessories			Qty.
DIN rail section TS 15			
<b>Cat. no.</b>			
DIN rail section TS 35	TS 35 / 208 mm long		
<b>Cat. no.</b>	<b>4507.3</b>		1
Mounting screw BS	BS M 6x8		
<b>Cat. no.</b>	<b>4558.0</b>		100
Mounting plate MP	MP / P 220		
<b>Cat. no.</b>	<b>4503.4</b>		1
Wall brackets WL	WL (set)		
<b>Cat. no.</b>	<b>4509.4</b>		1
External hinges (pair) AG	AG (pair)		
<b>Cat. no.</b>	<b>4509.6</b>		1

## Polyester housing CP 230/55

Outer dimensions, mm 230 x 75 x 55  
Weight, g 575

### Threaded drill hole options

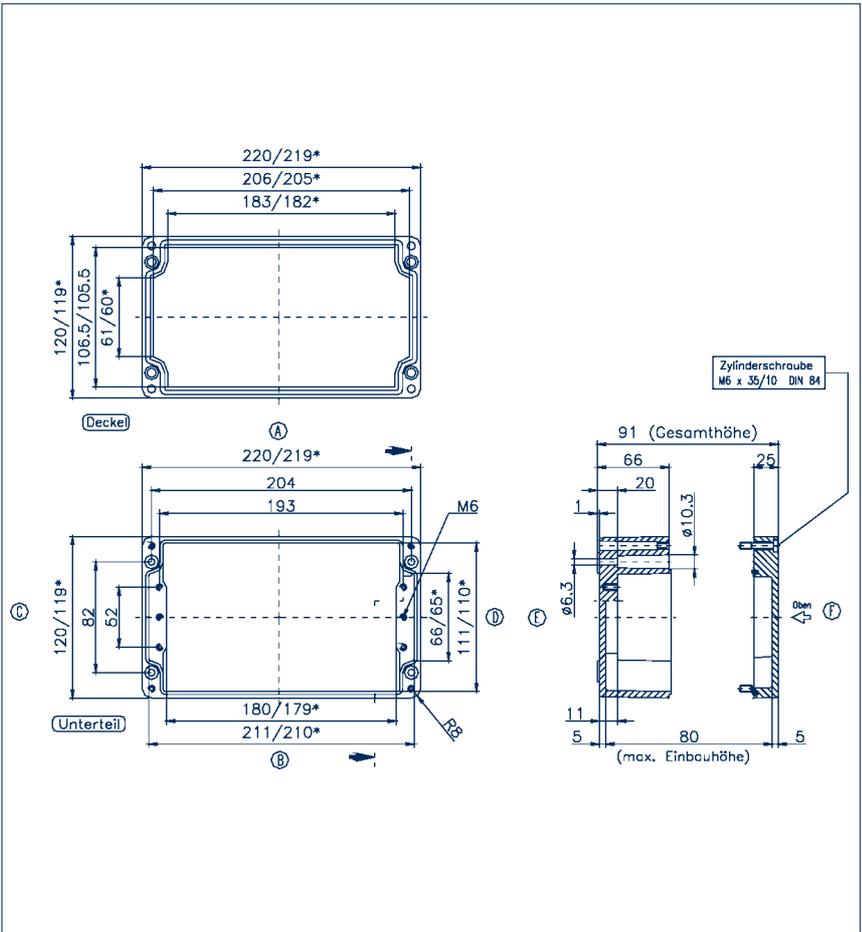


M	A/B	C/D	PG	A/B	C/D
12	22	3	7	20	3
16	10	1	9	14	1
20	8	1	11	8	1
25	4	1	13.5	8	1
32	-	-	16	6	1
40	-	-	21	4	1
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

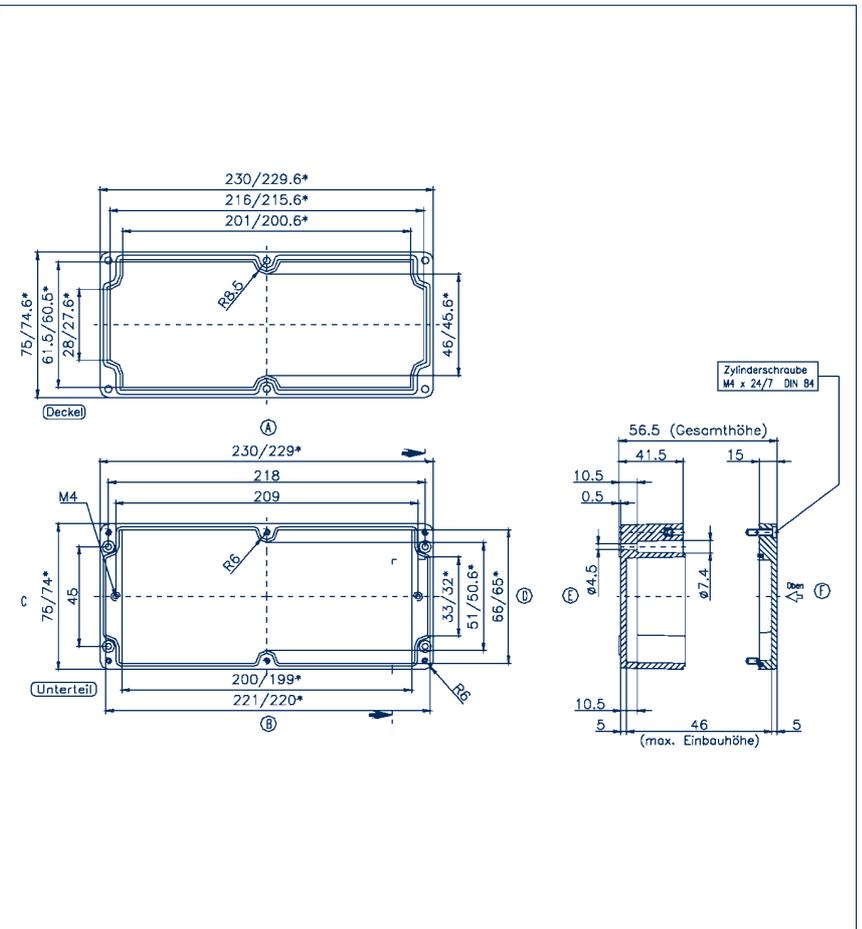
### Accessories

Accessories			Qty.
DIN rail section TS 15			
<b>Cat. no.</b>			
DIN rail section TS 35	TS 35 / 214 mm long		
<b>Cat. no.</b>	<b>4569.0</b>		1
Mounting screw BS	BS M 4x5		
<b>Cat. no.</b>	<b>4557.0</b>		100
Mounting plate MP			
<b>Cat. no.</b>			
Wall brackets WL	WL (set)		
<b>Cat. no.</b>	<b>4509.3</b>		1
External hinges (pair) AG			
<b>Cat. no.</b>			

## Dimension diagram



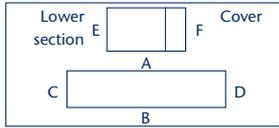
## Dimension diagram



**Polyester housing CP**

Polyester housing CP 230/75	
Outer dimensions, mm	230 x 75 x 75
Weight, g	670

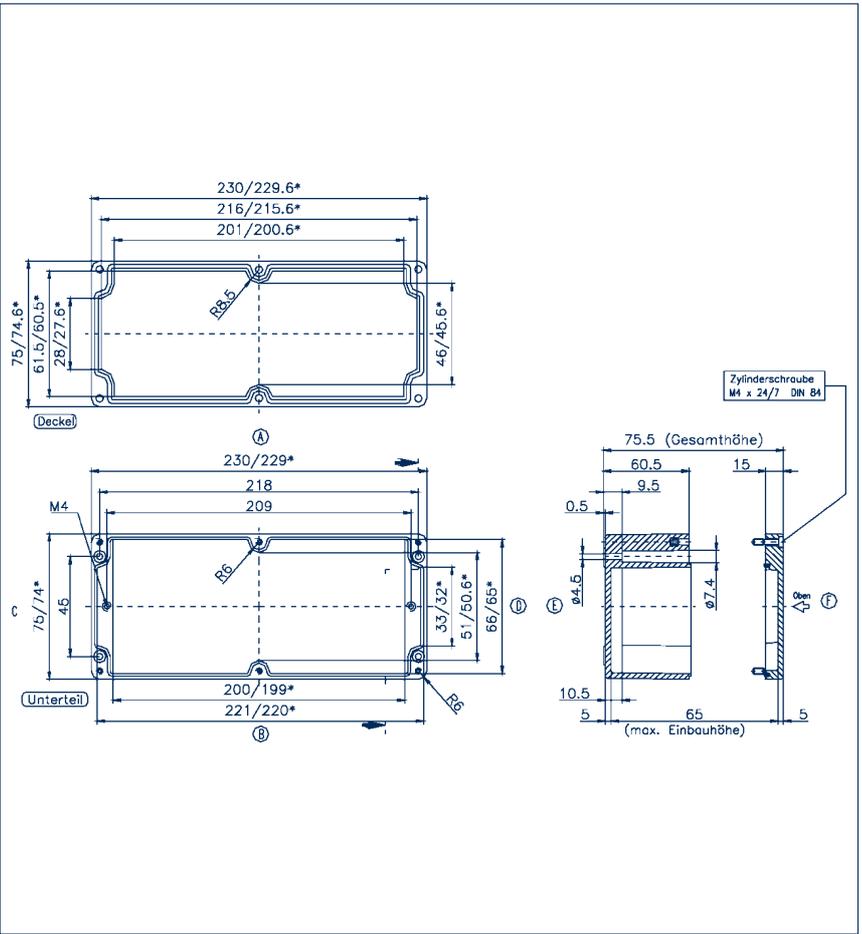
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	30	6	7	30	6
16	16	2	9	18	3
20	12	2	11	16	2
25	6	1	13.5	12	2
32	4	1	16	10	1
40	-	-	21	6	1
50	-	-	29	4	-
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	48	-	-

Accessories		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 214 mm long	1
<b>Cat. no.</b>	<b>4569.0</b>	
Mounting screw BS	BS M 4x5	100
<b>Cat. no.</b>	<b>4557.0</b>	
Mounting plate MP		
<b>Cat. no.</b>		
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.3</b>	
External hinges (pair) AG		
<b>Cat. no.</b>		

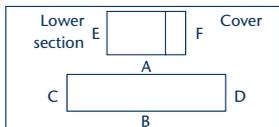
**Dimension diagram**



**Polyester housing CP 255/120**

Outer dimensions, mm	255 x 250 x 120
Weight, g	2650

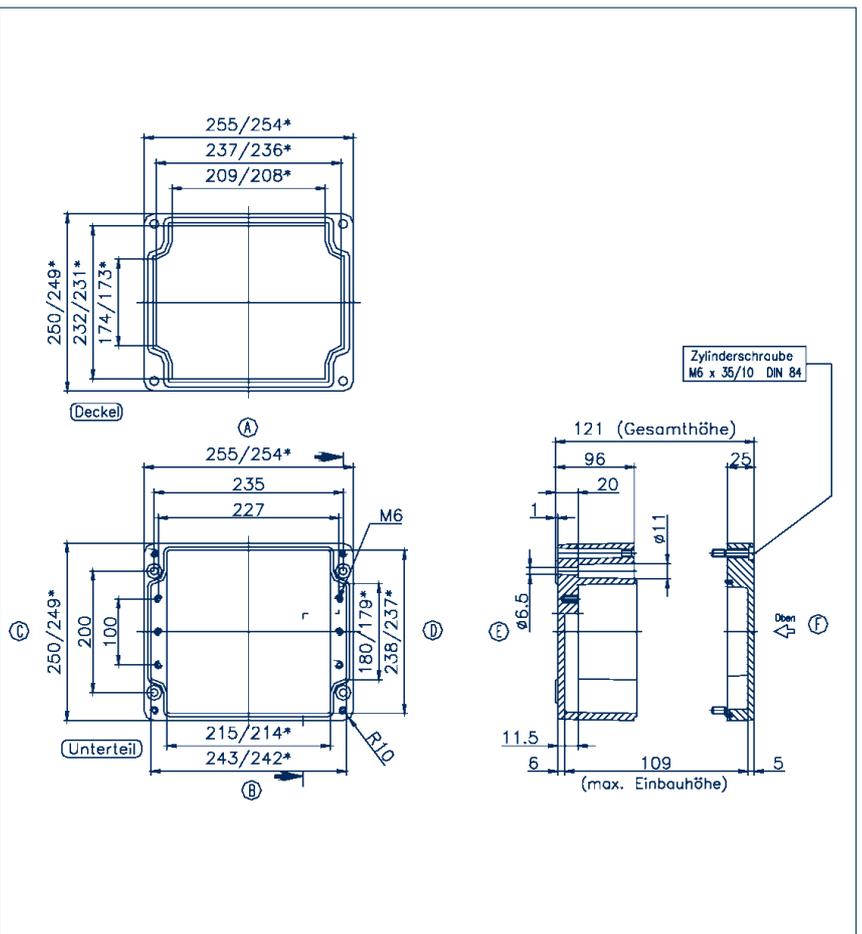
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	69	51	7	69	51
16	32	24	9	40	32
20	24	18	11	32	24
25	12	10	13.5	24	18
32	8	7	16	21	17
40	4	3	21	12	9
50	3	3	29	8	6
63	3	2	36	4	3
-	-	-	42	3	2
-	-	-	48	3	2

Accessories		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 235 mm long	1
<b>Cat. no.</b>	<b>4508.4</b>	
Mounting screw BS	BS M 6x8	100
<b>Cat. no.</b>	<b>4558.0</b>	
Mounting plate MP		
<b>Cat. no.</b>		
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.4</b>	
External hinges (pair) AG		
<b>Cat. no.</b>	<b>4509.6</b>	1

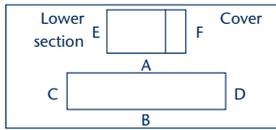
**Dimension diagram**



## Polyester housing CP 260/90

Outer dimensions, mm	260 x 160 x 90
Weight, g	1710

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	50	16	7	50	15
16	26	8	9	30	11
20	17	6	11	21	6
25	11	3	13.5	17	6
32	5	2	16	14	5
40	3	1	21	11	3
50	3	-	29	5	2
63	-	-	36	3	1
-	-	-	42	3	-
-	-	-	48	-	-

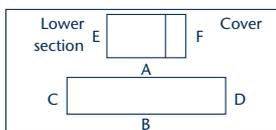
### Accessories

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 240 mm long	1
<b>Cat. no.</b>	<b>4508.2</b>	
Mounting screw BS	BS M 6x8	100
<b>Cat. no.</b>	<b>4558.0</b>	
Mounting plate MP	MP / P 260	1
<b>Cat. no.</b>	<b>4503.6</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.4</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4509.6</b>	

## Polyester housing CP 360/90

Outer dimensions, mm	360 x 160 x 90
Weight, g	2150

### Threaded drill hole options

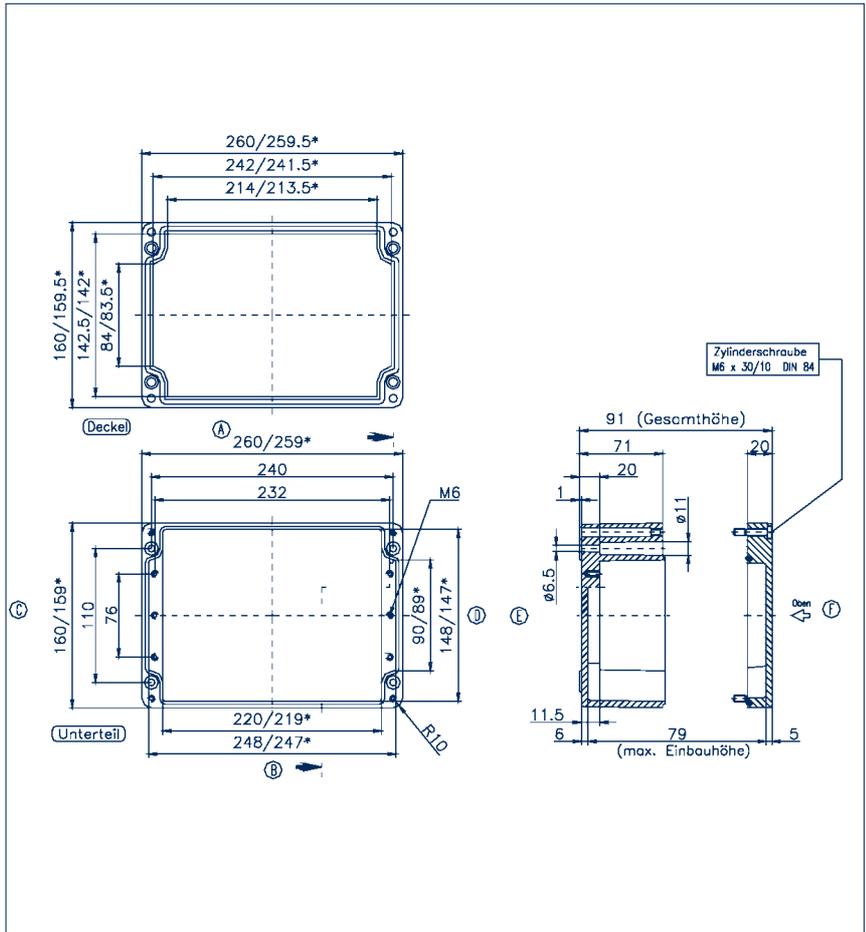


M	A/B	C/D	PG	A/B	C/D
12	72	18	7	72	18
16	38	8	9	42	12
20	26	6	11	36	8
25	16	3	13.5	26	6
32	7	2	16	20	6
40	5	1	21	16	3
50	4	1	29	7	2
63	-	-	36	5	1
-	-	-	42	4	-
-	-	-	48	-	-

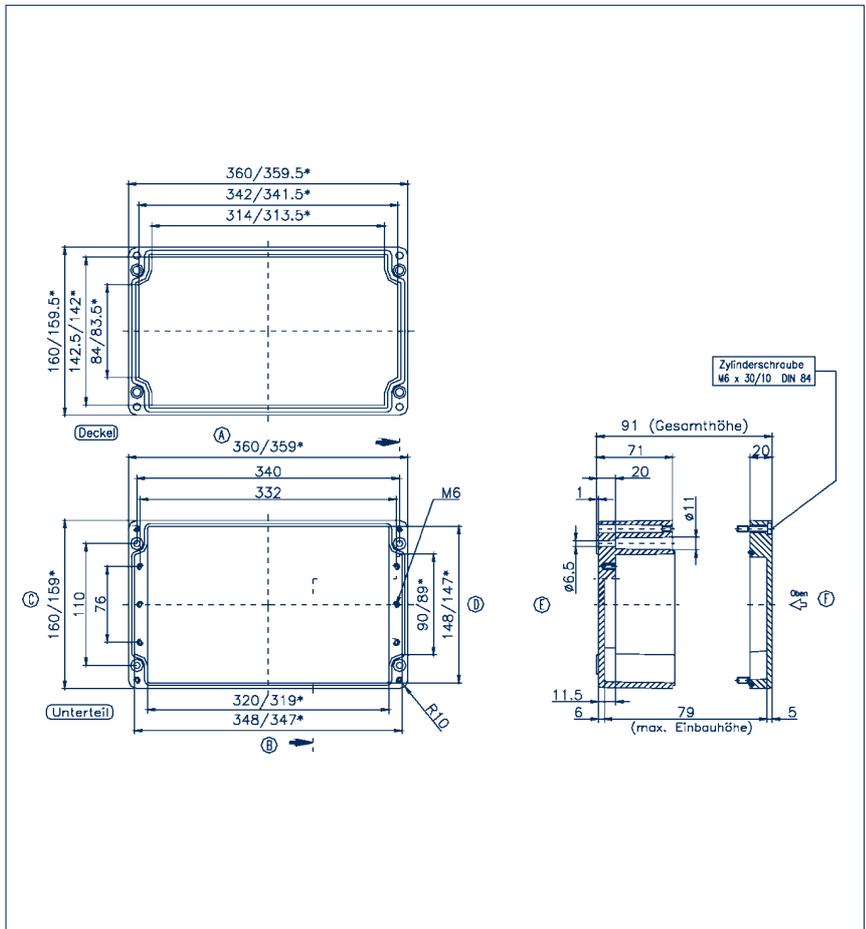
### Accessories

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 340 mm long	1
<b>Cat. no.</b>	<b>4508.3</b>	
Mounting screw BS	BS M 6x8	100
<b>Cat. no.</b>	<b>4558.0</b>	
Mounting plate MP	MP / P 360	1
<b>Cat. no.</b>	<b>4503.8</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.4</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4509.6</b>	

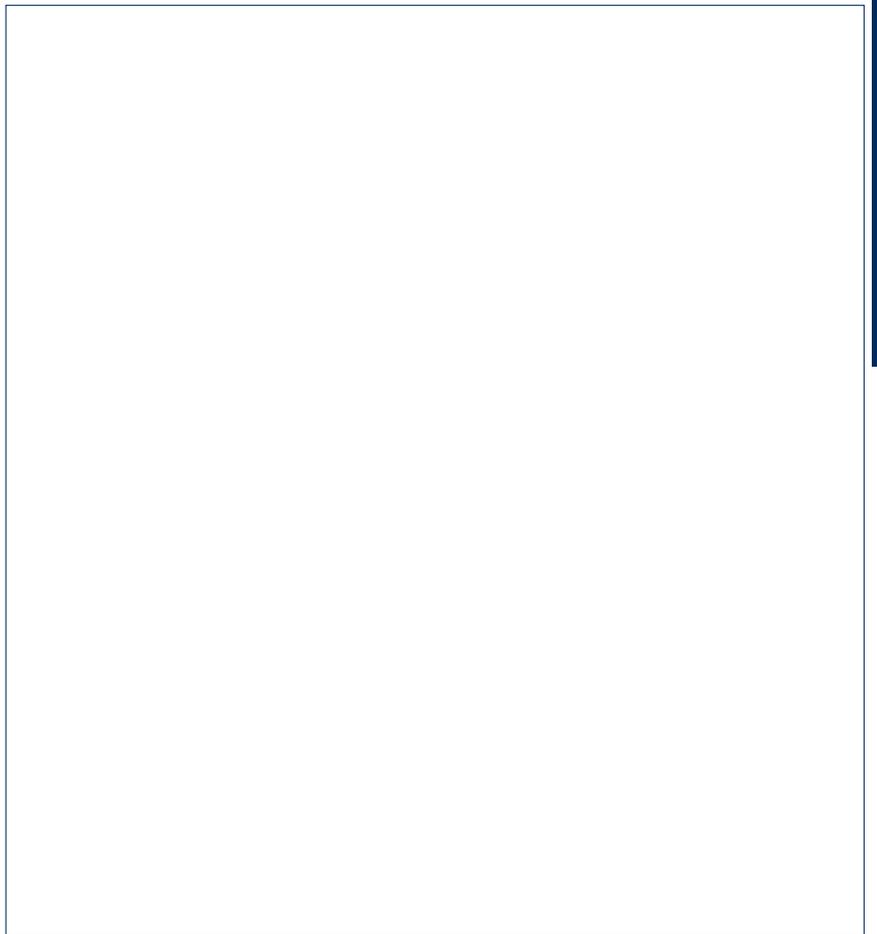
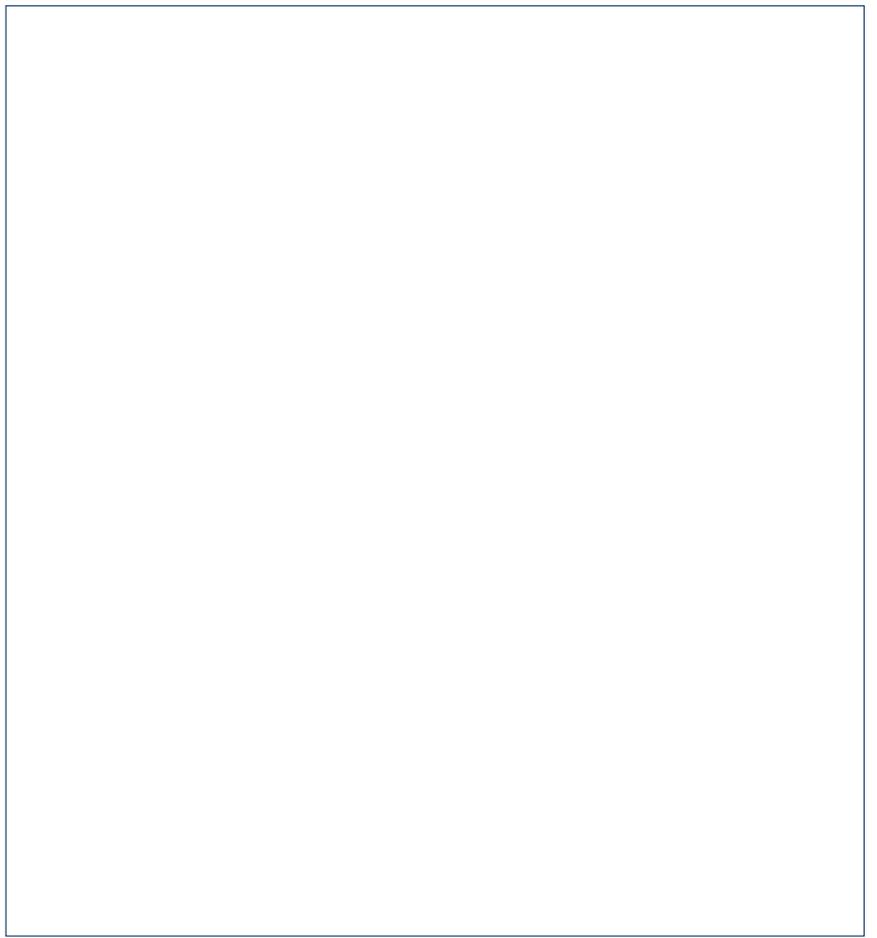
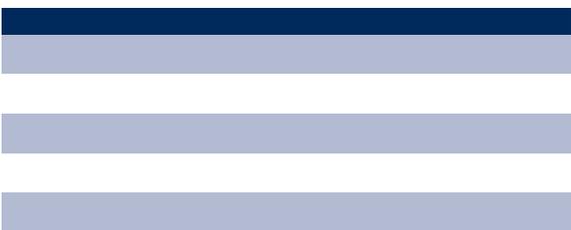
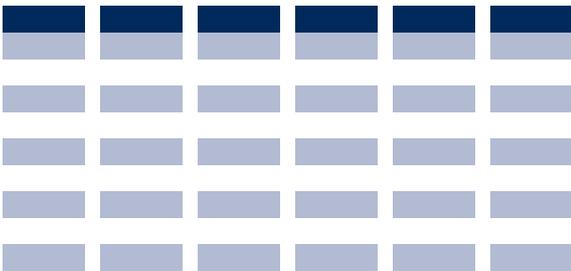
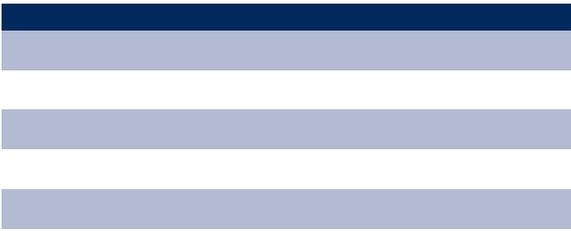
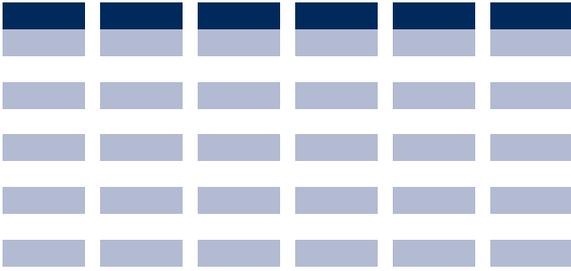
## Dimension diagram



## Dimension diagram







Polycarbonate housing CM | ABS housing CT

Polycarbonate housing / ABS housing

Material: glass-fibre reinforced polycarbonate and ABS  
 Protection: IP 66  
 Impact resistant  
 Halogen-free and cadmium-free  
 A comprehensive line of accessories



Technical data

Material
Protection
Toxicity characteristics
Flamm. class acc. to UL 94
Thermal stability
Chemical resistance
Sea water resistance
UV resistance
Colour
Impact resistance

Polycarbonate
IP66
halogen-free and cadmium-free
V2
-40°C to +100°C
good
very good
good
grey, similar to RAL 7035
> 7 Joule, EN50014

Outer dimensions			Dimension diagram
L	W	H	Page
52	50	35	467
82	80	55	467
82	80	85	468
120	80	55	468
120	80	85	469
122	120	55	469
122	120	85	470
160	80	55	470
160	80	85	471
200	120	75	471
200	150	75	472
240	120	100	472
240	160	90	473
240	160	120	473

Polycarbonate		Polycarbonate Transparent cover	
Type	Cat. no.	Type	Cat. no.
CM 52	4040.2	CM 52/DT	4060.2
CM 82/5	4041.2	CM 82/5 DT	4061.2
CM 82/8	4042.2	CM 82/8 DT	4062.2
CM 120/5	4043.2	CM 120/5 DT	4063.2
CM 120/8	4044.2	CM 120/8 DT	4064.2
CM 122/5	4047.2	CM 122/5 DT	4067.2
CM 122/8	4048.2	CM 122/8 DT	4068.2
CM 160/5	4045.2	CM 160/5 DT	4065.2
CM 160/8	4046.2	CM 160/8 DT	4066.2
CM 200/12	4049.2	CM 200/12 DT	4069.2
CM 200/15	4050.2	CM 200/15 DT	4070.2
CM 240	4051.2	CM 240/DT	4071.2
CM 240/9	4052.2	CM 240/9 DT	4072.2
CM 240/12	4053.2	CM 240/12 DT	4073.2

Technical data

Material
Protection
Toxicity characteristics
Flamm. class acc. to UL 94
Thermal stability
Chemical resistance
Sea water resistance
UV resistance
Colour
Impact resistance

ABS
IP66
halogen-free and cadmium-free
HB
-40°C to +80°C
good
good
satisfactory
grey, similar to RAL 7035
> 7 Joule, EN50014

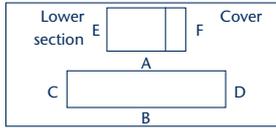
Outer dimensions			Dimension diagram
L	B	H	Page
52	50	35	467
82	80	55	467
82	80	85	468
120	80	55	468
120	80	85	469
122	120	55	469
122	120	85	470
160	80	55	470
160	80	85	471
200	120	75	471
200	150	75	472
240	120	100	472
240	160	90	473
240	160	120	473

ABS	
Type	Cat. no.
CT 52	4080.3
CT 82/5	4081.3
CT 82/8	4082.3
CT 120/5	4083.3
CT 120/8	4084.3
CT 122/5	4087.3
CT 122/8	4088.3
CT 160/5	4085.3
CT 160/8	4086.3
CT 200/12	4089.3
CT 200/15	4090.3
CT 240	4091.3
CT 240/9	4092.3
CT 240/12	4093.3

**Polycarbonate housing CM 52...  
ABS housing CT 52...**

Outer dimensions, mm 52 x 50 x 35  
Weight, g 40

**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	2	1	7	2	1
16	-	-	9	1	1
20	-	-	11	-	-
25	-	-	13.5	-	-
32	-	-	16	-	-
40	-	-	21	-	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

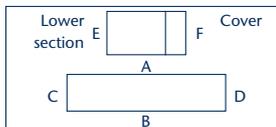
**Accessories Qty.**

DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting plate MP	MP /M-T/52	1
<b>Cat. no.</b>	<b>4504.6</b>	
Wall brackets WL		
<b>Cat. no.</b>		
External hinges (pair) AG		
<b>Cat. no.</b>		

**Polycarbonate housing CM 82/5...  
ABS housing CT 82/5...**

Outer dimensions, mm 82 x 80 x 55  
Weight, g 140

**Threaded drill hole options**

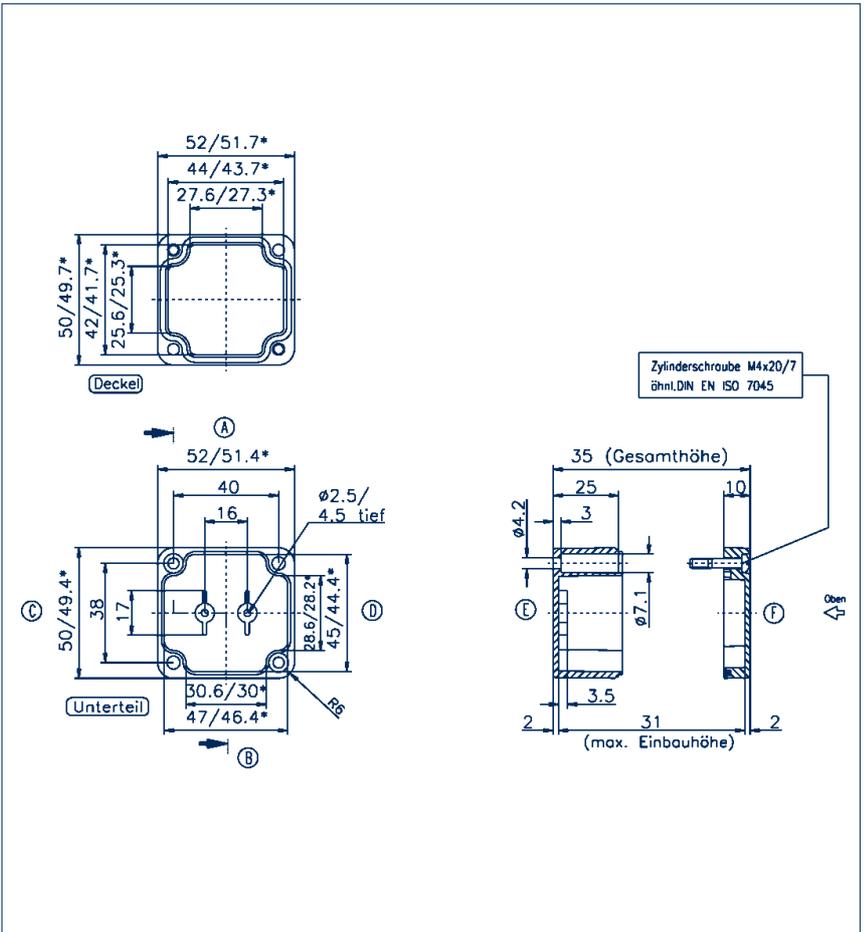


M	A/B	C/D	PG	A/B	C/D
12	6	4	7	6	4
16	2	2	9	3	2
20	2	1	11	2	1
25	1	1	13.5	2	1
32	-	-	16	2	1
40	-	-	21	1	1
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

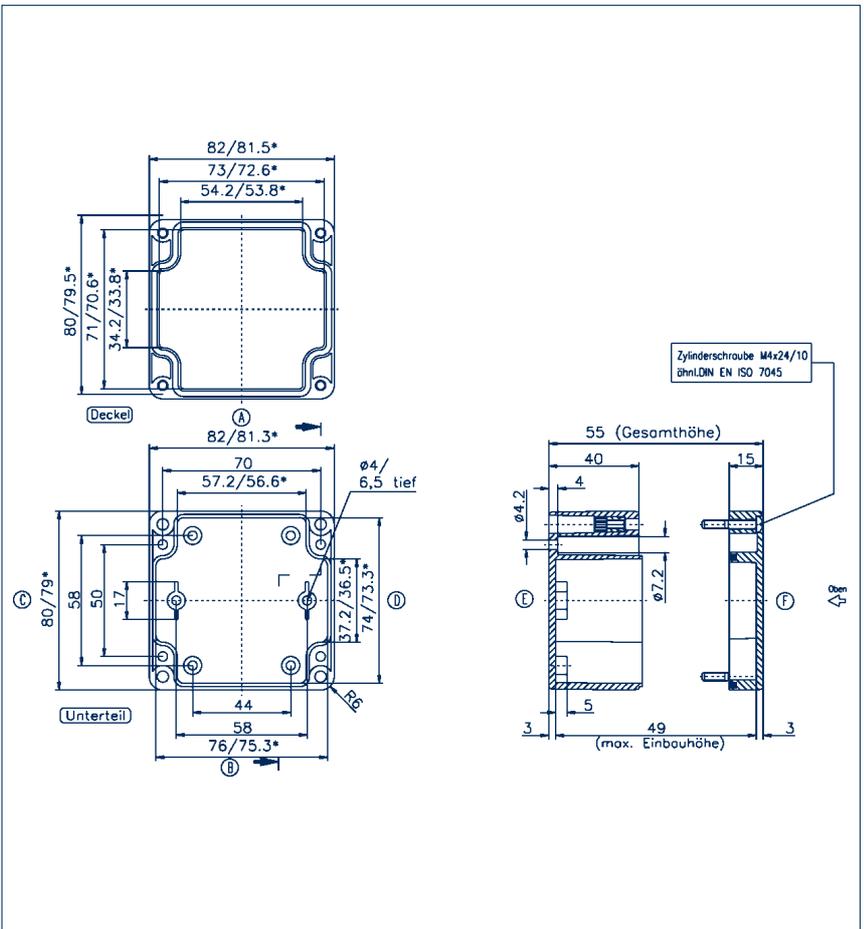
**Accessories Qty.**

DIN rail section TS 15	TS 15 / 68 mm long	1
<b>Cat. no.</b>	<b>4507.8</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting plate MP	MP /M-T/82	1
<b>Cat. no.</b>	<b>4504.8</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4510.2</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4510.3</b>	

**Dimension diagram**



**Dimension diagram**

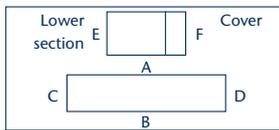


Polycarbonate housing CM | ABS housing CT

**Polycarbonate housing CM 82/8**  
**ABS housing CT 82/8...**

Outer dimensions, mm	82 x 80 x 85
Weight, g	175

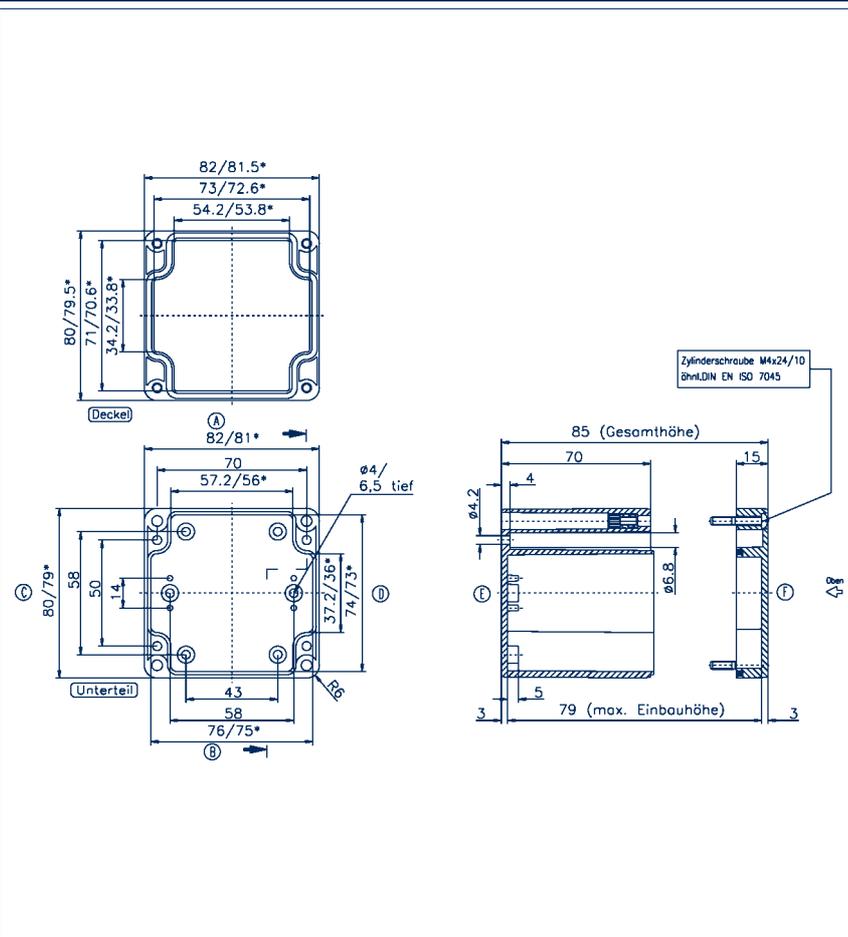
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	10	8	7	10	6
16	5	2	9	6	3
20	4	2	11	5	2
25	2	1	13.5	4	2
32	1	1	16	4	2
40	1	-	21	1	1
50	-	-	29	1	-
63	-	-	36	1	-
-	-	-	42	-	-

Accessories	Qty.
DIN rail section TS 15	TS 15 / 68 mm long
<b>Cat. no.</b>	<b>4507.8</b>
DIN rail section TS 35	
<b>Cat. no.</b>	
Mounting plate MP	MP /M-T/82
<b>Cat. no.</b>	<b>4504.8</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4510.2</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4510.3</b>

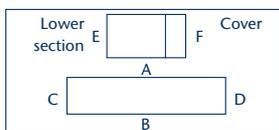
**Dimension diagram**



**Polycarbonate housing CM 120/5...**  
**ABS housing CT 120/5...**

Outer dimensions, mm	120 x 80 x 55
Weight, g	180

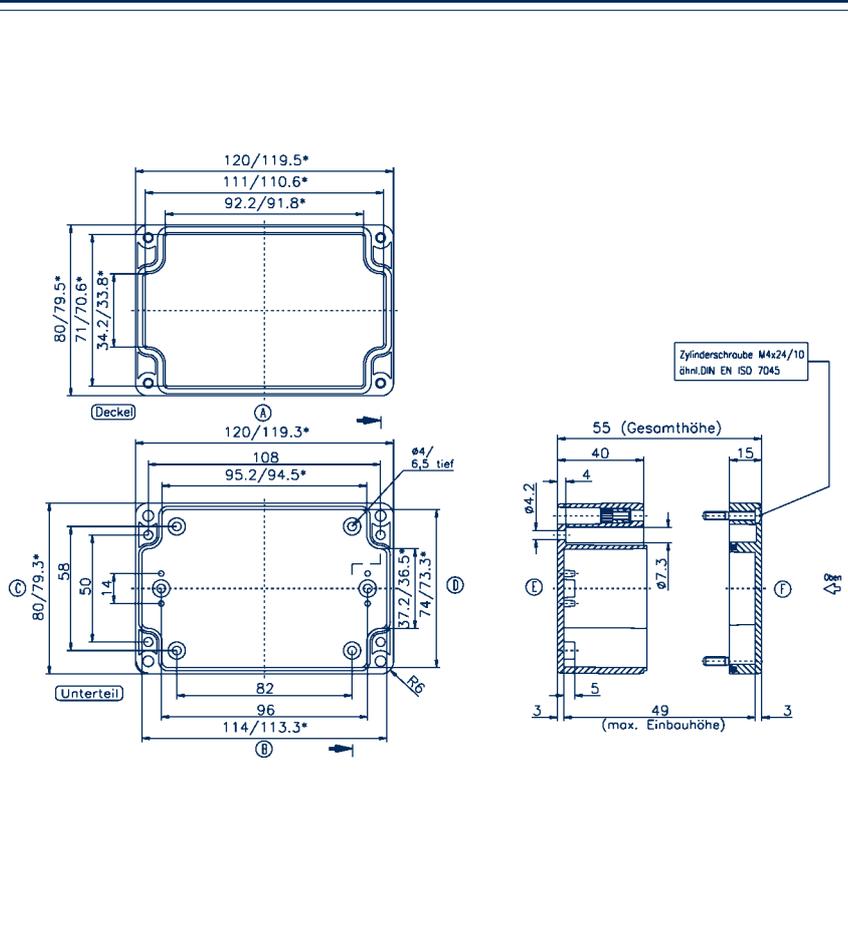
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	10	3	7	10	3
16	4	1	9	6	2
20	3	1	11	4	1
25	2	-	13.5	3	1
32	-	-	16	3	1
40	-	-	21	2	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories	Qty.
DIN rail section TS 15	TS 15 / 110 mm long
<b>Cat. no.</b>	<b>4510.8</b>
DIN rail section TS 35	
<b>Cat. no.</b>	
Mounting plate MP	MP /M-T/120
<b>Cat. no.</b>	<b>4505.0</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4510.2</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4510.3</b>

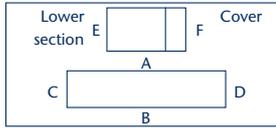
**Dimension diagram**



**Polycarbonate housing CM 120/8...**  
**ABS housing CT 120/8...**

Outer dimensions, mm 120 x 80 x 85  
Weight, g 225

**Threaded drill hole options**

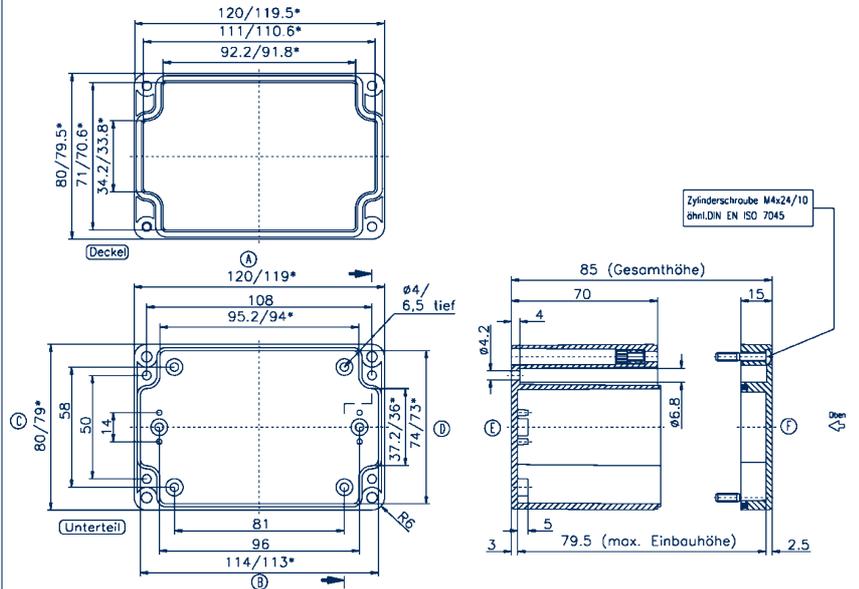


M	A/B	C/D	PG	A/B	C/D
12	16	6	7	16	6
16	8	2	9	11	3
20	6	2	11	8	2
25	3	1	13.5	6	2
32	2	1	16	6	2
40	1	-	21	3	1
50	-	-	29	2	-
63	-	-	36	1	-
-	-	-	42	-	-

**Accessories**

		Qty.
DIN rail section TS 15	TS 15 / 110 mm long	1
<b>Cat. no.</b>	<b>4510.8</b>	
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting plate MP	MP /M-T/120	1
<b>Cat. no.</b>	<b>4505.0</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4510.2</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4510.3</b>	

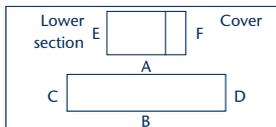
**Dimension diagram**



**Polycarbonate housing CM 122/5...**  
**ABS housing CT 122/5...**

Outer dimensions, mm 122 x 120 x 55  
Weight, g 240

**Threaded drill hole options**

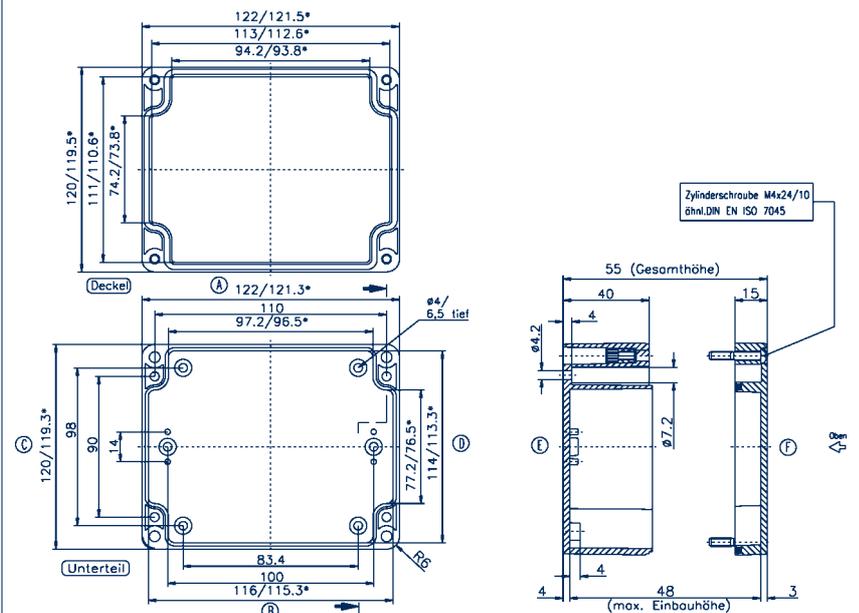


M	A/B	C/D	PG	A/B	C/D
12	11	8	7	11	8
16	4	3	9	6	4
20	4	3	11	4	3
25	2	2	13.5	4	3
32	-	-	16	3	2
40	-	-	21	2	2
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

**Accessories**

		Qty.
DIN rail section TS 15	TS 15/110 mm long	1
<b>Cat. no.</b>	<b>4510.8</b>	
DIN rail section TS 35	TS 35 / 112 mm long	1
<b>Cat. no.</b>	<b>4508.8</b>	
Mounting plate MP	MP /M-T/122	1
<b>Cat. no.</b>	<b>4505.4</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4510.2</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4510.3</b>	

**Dimension diagram**

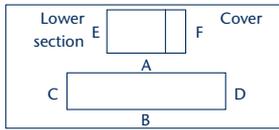


Polycarbonate housing CM | ABS housing CT

Polycarbonate housing CM 122/8...  
ABS housing CT 122/8...

Outer dimensions, mm	122 x 120 x 80
Weight, g	300

Threaded drill hole options



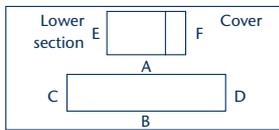
M	A/B	C/D	PG	A/B	C/D
12	20	14	7	20	14
16	9	6	9	12	9
20	6	5	11	9	6
25	4	2	13.5	6	5
32	2	1	16	6	4
40	1	1	21	3	2
50	1	-	29	2	1
63	-	-	36	1	1
-	-	-	42	1	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 110 mm long		1
<b>Cat. no.</b>	<b>4510.8</b>		
DIN rail section TS 35	TS 35 / 112 mm long		1
<b>Cat. no.</b>	<b>4508.8</b>		
Mounting plate MP	MP /M-T/122		1
<b>Cat. no.</b>	<b>4505.4</b>		
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4510.2</b>		
External hinges (pair) AG	AG (pair)		1
<b>Cat. no.</b>	<b>4510.3</b>		

Polycarbonate housing CM 160/5...  
ABS housing CT 160/5...

Outer dimensions, mm	160 x 80 x 55
Weight, g	235

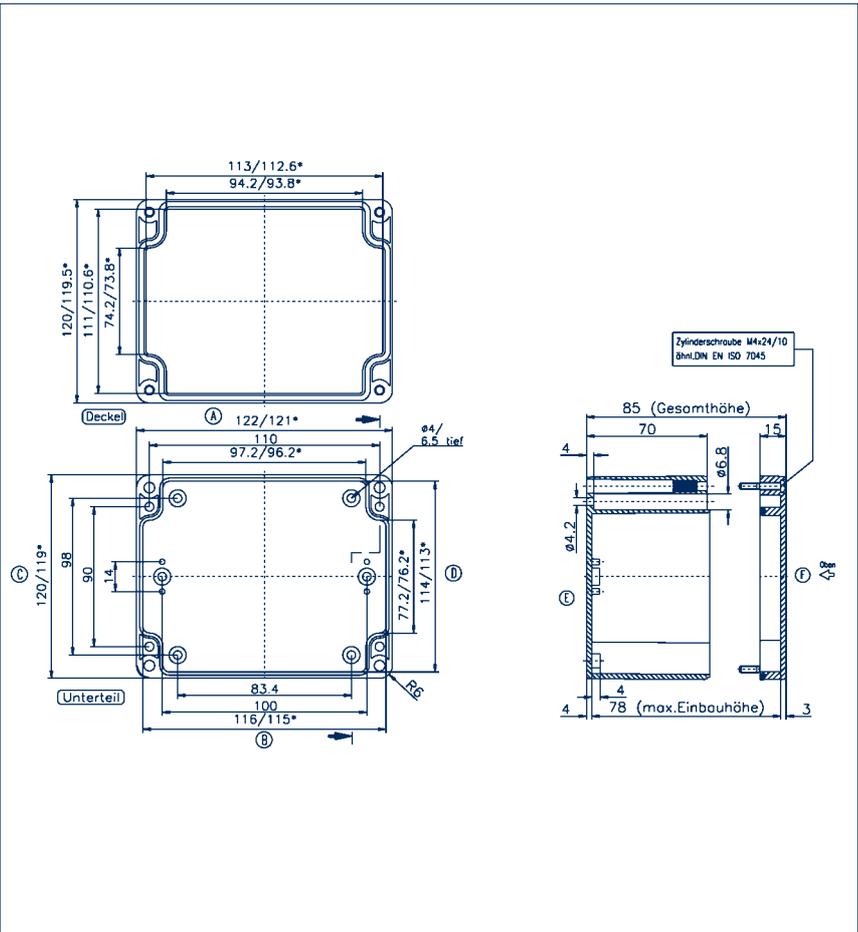
Threaded drill hole options



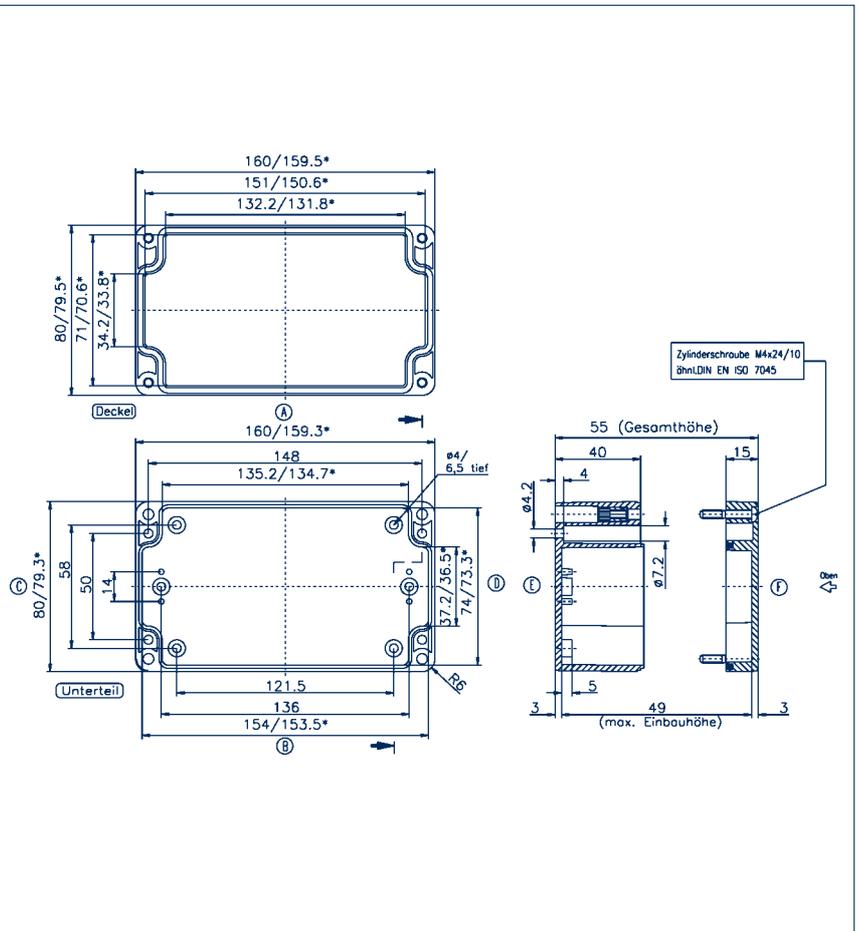
M	A/B	C/D	PG	A/B	C/D
12	16	4	7	14	4
16	6	2	9	8	2
20	5	1	11	6	1
25	3	1	13.5	5	1
32	-	-	16	4	1
40	-	-	21	3	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 144 mm long		1
<b>Cat. no.</b>	<b>4508.7</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting plate MP	MP /M-T/160		1
<b>Cat. no.</b>	<b>4505.2</b>		
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4510.2</b>		
External hinges (pair) AG	AG (pair)		1
<b>Cat. no.</b>	<b>4510.3</b>		

Dimension diagram



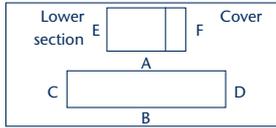
Dimension diagram



**Polycarbonate housing CM 160/8...**  
**ABS housing CT 160/8...**

Outer dimensions, mm 160 x 80 x 85  
 Weight, g 295

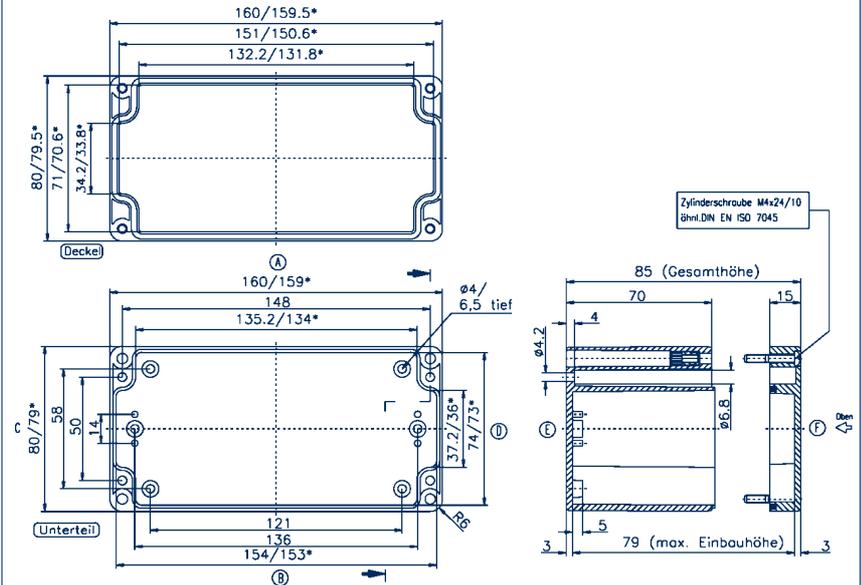
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	28	6	7	28	6
16	14	3	9	18	4
20	9	2	11	12	2
25	5	1	13.5	9	2
32	3	1	16	8	2
40	2	-	21	5	1
50	2	-	29	3	-
63	-	-	36	2	-
-	-	-	42	2	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 144 mm long		1
<b>Cat. no.</b>	<b>4508.7</b>		
DIN rail section TS 35			
<b>Cat. no.</b>			
Mounting plate MP	MP /M-T/160		1
<b>Cat. no.</b>	<b>4505.2</b>		
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4510.2</b>		
External hinges (pair) AG	AG (pair)		1
<b>Cat. no.</b>	<b>4510.3</b>		

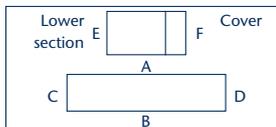
**Dimension diagram**



**Polycarbonate housing CM 200/12...**  
**ABS housing CT 200/12...**

Outer dimensions, mm 200 x 120 x 75  
 Weight, g 400

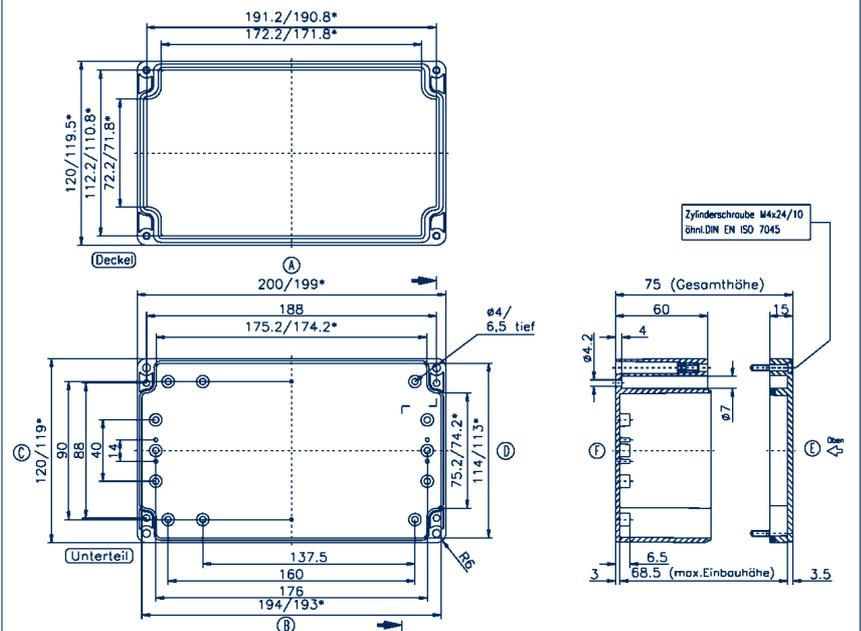
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	30	15	7	30	15
16	14	6	9	20	9
20	12	6	11	12	6
25	5	3	13.5	12	6
32	3	2	16	10	4
40	-	-	21	5	2
50	-	-	29	3	2
63	-	-	36	-	-
-	-	-	42	-	-

Accessories			Qty.
DIN rail section TS 15	TS 15 / 188 mm long		1
<b>Cat. no.</b>	<b>4508.9</b>		
DIN rail section TS 35	TS 35 / 188 mm long		
<b>Cat. no.</b>	<b>4509.0</b>		
Mounting plate MP	MP /M-T/200/12		1
<b>Cat. no.</b>	<b>4505.6</b>		
Wall brackets WL	WL (set)		1
<b>Cat. no.</b>	<b>4510.2</b>		
External hinges (pair) AG	AG (pair)		1
<b>Cat. no.</b>	<b>4510.3</b>		

**Dimension diagram**

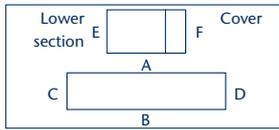


Polycarbonate housing CM | ABS housing CT

**Polycarbonate housing CM 200/15...**  
**ABS housing CT 200/15...**

Outer dimensions, mm	200 x 150 x 75
Weight, g	525

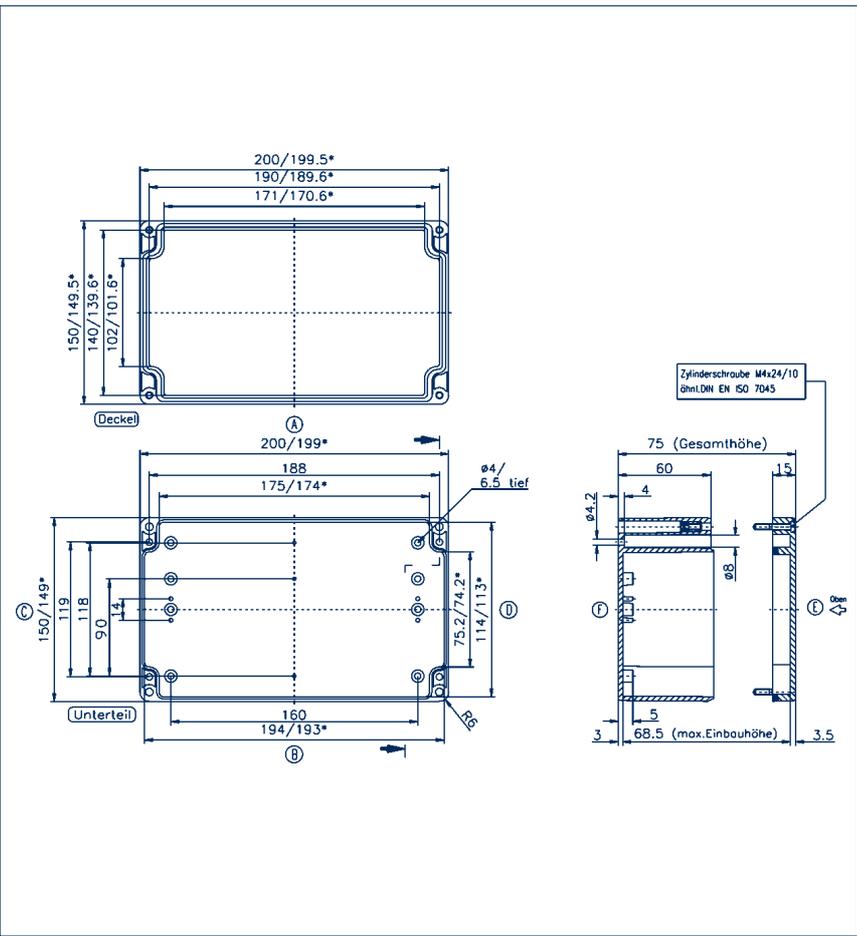
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	30	17	7	30	17
16	14	8	9	20	9
20	12	6	11	14	8
25	5	3	13.5	12	6
32	3	2	16	10	4
40	-	-	21	5	3
50	-	-	29	3	2
63	-	-	36	-	-
-	-	-	42	-	-

Accessories	Qty.
DIN rail section TS 15	
<b>Cat. no.</b>	
DIN rail section TS 35	TS 35 / 170 mm long
<b>Cat. no.</b>	<b>4509.0</b>
Mounting plate MP	MP /M-T/200/15
<b>Cat. no.</b>	<b>4505.8</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4510.2</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4510.3</b>

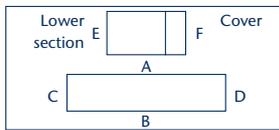
**Dimension diagram**



**Polycarbonate housing CM 240...**  
**ABS housing CT 240...**

Outer dimensions, mm	240 x 120 x 100
Weight, g	520

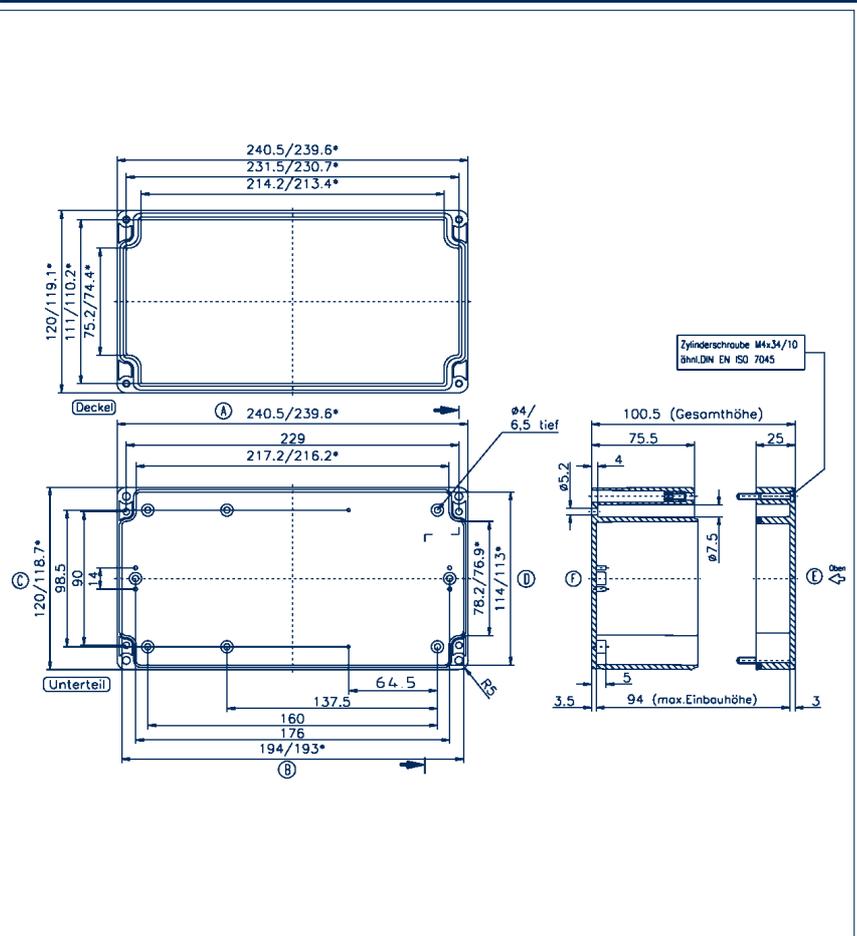
**Threaded drill hole options**



M	A/B	C/D	PG	A/B	C/D
12	48	16	7	48	16
16	24	8	9	30	9
20	17	5	11	21	6
25	10	3	13.5	17	5
32	5	1	16	14	5
40	3	1	21	9	3
50	3	1	29	5	1
63	-	-	36	3	1
-	-	-	42	3	1

Accessories	Qty.
DIN rail section TS 15	
<b>Cat. no.</b>	
DIN rail section TS 35	TS 35 / 230 mm long
<b>Cat. no.</b>	<b>4509.1</b>
Mounting plate MP	MP /M-T/240
<b>Cat. no.</b>	<b>4506.0</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4510.2</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4510.3</b>

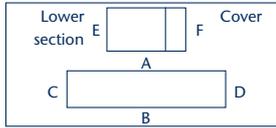
**Dimension diagram**



**Polycarbonate housing CM 240/9...**  
**ABS housing CT 240/9...**

Outer dimensions, mm 240 x 160 x 90  
 Weight, g 650

**Threaded drill hole options**

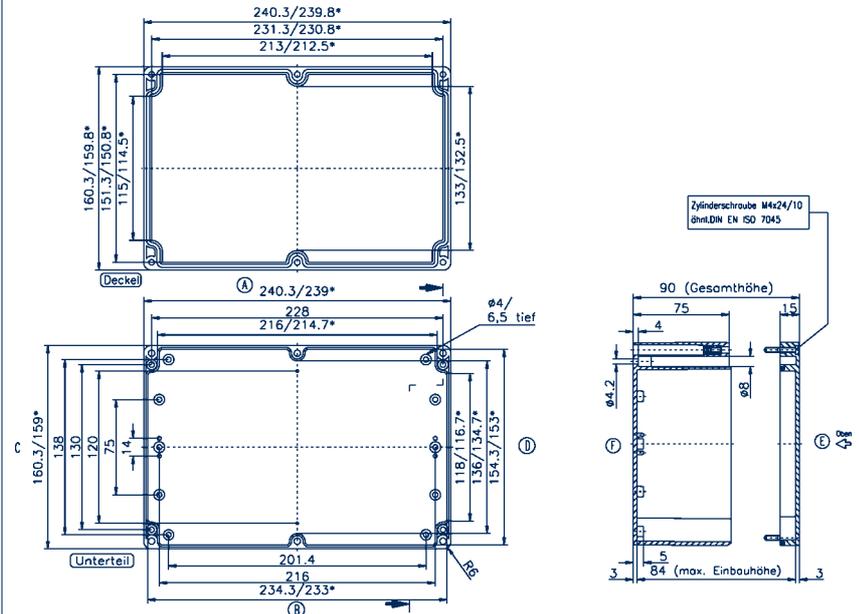


M	A/B	C/D	PG	A/B	C/D
12	40	26	7	40	26
16	18	11	9	24	15
20	12	8	11	16	11
25	8	4	13.5	12	8
32	4	2	16	12	8
40	2	2	21	6	4
50	2	1	29	4	2
63	-	-	36	2	2
-	-	-	42	2	1
-	-	-	-	-	-

**Accessories**

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 230 mm long	
<b>Cat. no.</b>	<b>4509.1</b>	1
Mounting plate MP	MP /M-T/240	
<b>Cat. no.</b>	<b>4506.0</b>	1
Wall brackets WL	WL (set)	
<b>Cat. no.</b>	<b>4510.2</b>	1
External hinges (pair) AG	AG (pair)	
<b>Cat. no.</b>	<b>4510.3</b>	1

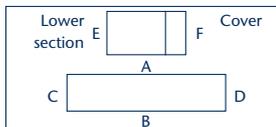
**Dimension diagram**



**Polycarbonate housing CM 240/12...**  
**ABS housing CT 240/12...**

Outer dimensions, mm 240 x 160 x 120  
 Weight, g 795

**Threaded drill hole options**

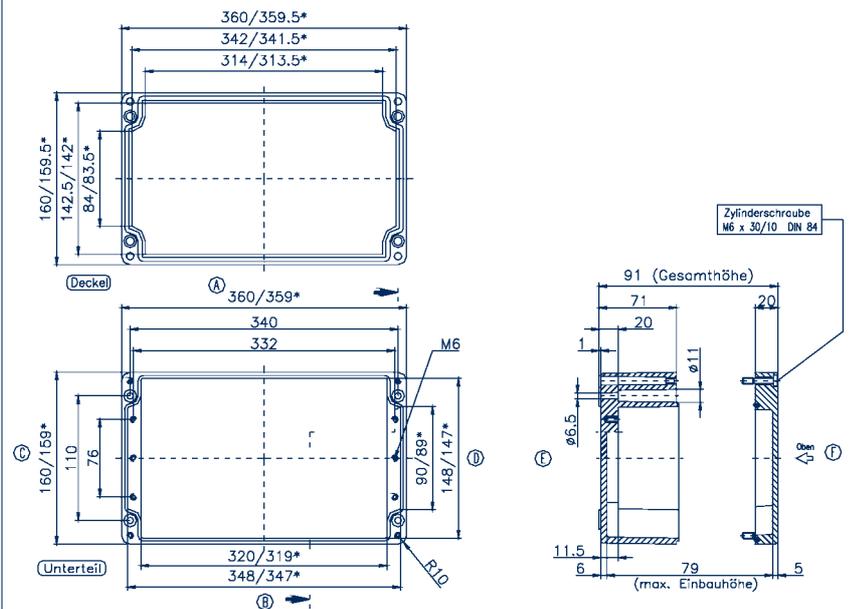


M	A/B	C/D	PG	A/B	C/D
12	40	26	7	40	26
16	22	12	9	24	15
20	16	9	11	18	12
25	8	5	13.5	16	9
32	4	3	16	12	8
40	2	2	21	8	5
50	2	1	29	4	2
63	-	-	36	2	2
-	-	-	42	2	1
-	-	-	-	-	-

**Accessories**

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 230 mm long	
<b>Cat. no.</b>	<b>4509.1</b>	1
Mounting plate MP	MP /M-T/240	
<b>Cat. no.</b>	<b>4506.0</b>	1
Wall brackets WL	WL (set)	
<b>Cat. no.</b>	<b>4510.2</b>	1
External hinges (pair) AG	AG (pair)	
<b>Cat. no.</b>	<b>4510.3</b>	1

**Dimension diagram**



# Aluminium housing, CA

## Aluminium housing

Material: Aluminium  
 Protection: IP 66  
 Impact resistant  
 halogen-free and cadmium-free  
 A comprehensive line of accessories



## Technical data

Material	DIN EN 1706 EN AC-AISI 12 (Fe)
Protection	IP66
Toxicity characteristics	halogen-free and cadmium-free
Flamm. class acc. to UL 94	-
Thermal stability	-40°C to +90°C
Chemical resistance	good
Sea water resistance	good
UV resistance	very good
Colour	silver grey RAL 7001
Impact resistance	> 7 Joule, EN50014

## Outer dimensions

			Dimension diagram
L	B	H	Page
50	45	30	475
58	64	34	475
75	80	57	476
98	64	34	476
122	120	80	477
125	80	57	477
150	64	34	478
160	160	90	478
175	80	57	479
200	230	110	479
220	120	80	480
220	120	90	480
250	80	52	481
260	160	90	481
280	180	100	482
280	230	110	482
330	230	110	483
330	230	180	483
360	120	80	484
360	160	90	484
560	160	90	485

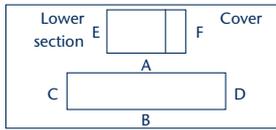
## Aluminium powder coated, silver-grey

Type	Cat. no.
CA 50/30	4000.0
CA 58/34	4001.0
CA 75/57	4003.0
CA 98/34	4002.0
CA122/80	4007.0
CA 125/57	4004.0
CA 150/34	4005.0
CA 160/90	4010.0
CA 175/57	4006.0
CA 200/110	4016.0
CA 220/80	4008.0
CA 220/90	4009.0
CA 250/52	4014.0
CA 260/90	4011.0
CA 280/100	4438.0
CA 280/110	4017.0
CA 330/110	4018.0
CA 330/180	4019.0
CA 360/80	4015.0
CA 360/90	4012.0
CA 560/90	4013.0

### Aluminium housing, CA 50/30

Outer dimensions, mm 50 x 45 x 30  
Weight, g 70

#### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	-	-	7	2	1
16	-	-	9	1	-
20	-	-	11	-	-
25	-	-	13.5	-	-
32	-	-	16	-	-
40	-	-	21	-	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

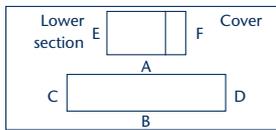
Accessories

Qty.

### Aluminium housing, CA 58/34

Outer dimensions, mm 58 x 64 x 34  
Weight, g 140

#### Threaded drill hole options

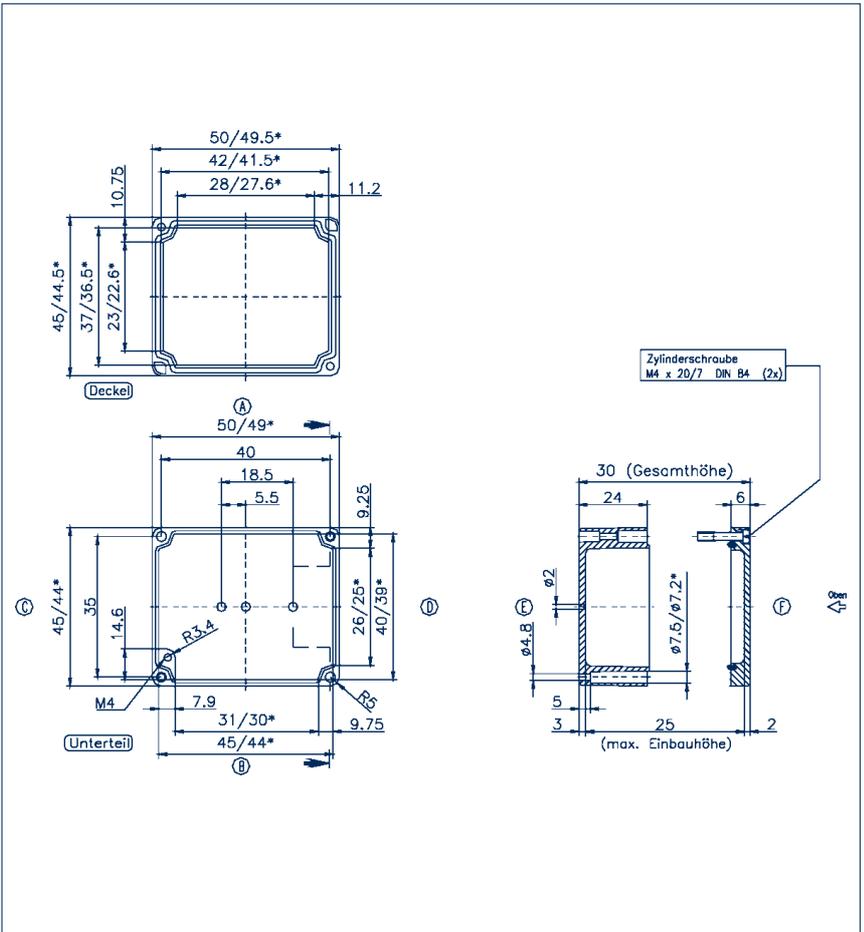


M	A/B	C/D	PG	A/B	C/D
12	2	1	7	2	1
16	-	-	9	1	1
20	-	-	11	-	-
25	-	-	13.5	-	-
32	-	-	16	-	-
40	-	-	21	-	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-

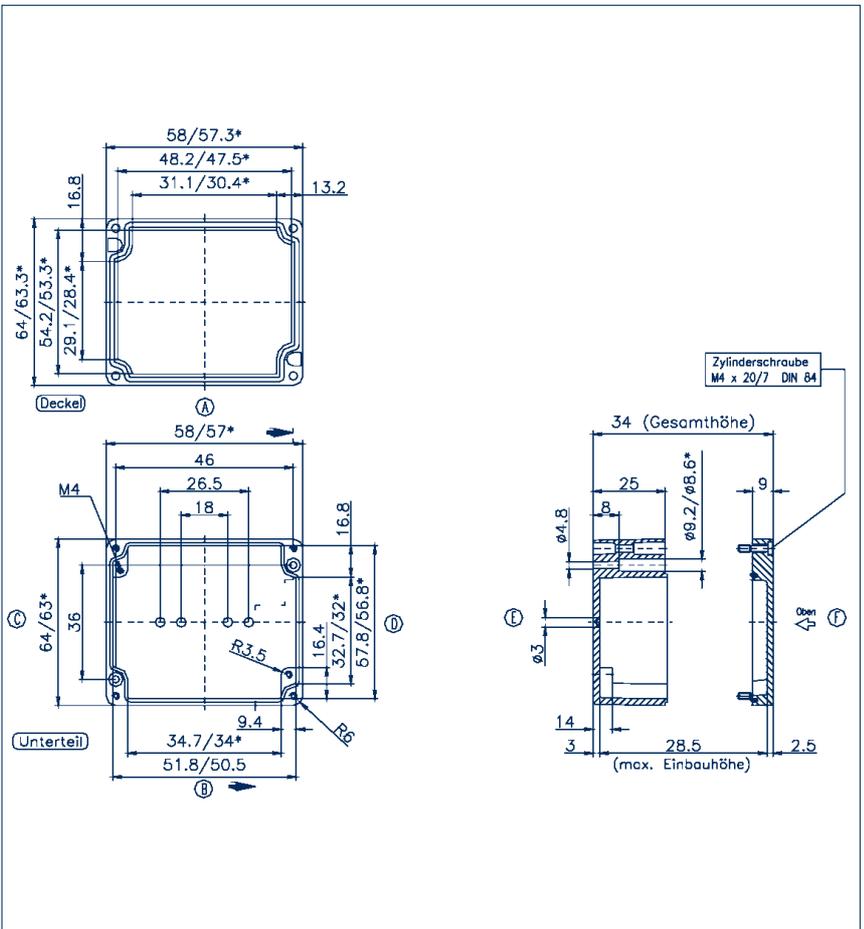
Accessories

Qty.

### Dimension diagram



### Dimension diagram

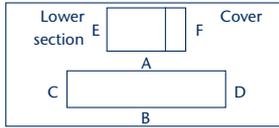


## Aluminium housing, CA

### Aluminium housing, CA 75/57

Outer dimensions, mm	75 x 80 x 57
Weight, g	280

### Threaded drill hole options



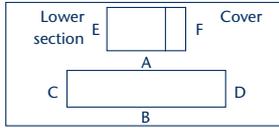
M	A/B	C/D	PG	A/B	C/D
12	6	5	7	6	5
16	2	2	9	4	2
20	2	2	11	2	2
25	1	-	13.5	2	2
32	-	-	16	1	1
40	-	-	21	1	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	-	-	-

Accessories	Qty.
DIN rail section TS 15	1
<b>Cat. no.</b>	<b>4510.7</b>
DIN rail section TS 35	100
<b>Cat. no.</b>	<b>4557.0</b>
Mounting screw BS	1
<b>Cat. no.</b>	<b>4500.7</b>
Mounting plate MP	
<b>Cat. no.</b>	<b>4500.7</b>
Wall brackets WL	
<b>Cat. no.</b>	
External hinges (pair) AG	
<b>Cat. no.</b>	

### Aluminium housing, CA 98/34

Outer dimensions, mm	98 x 64 x 34
Weight, g	200

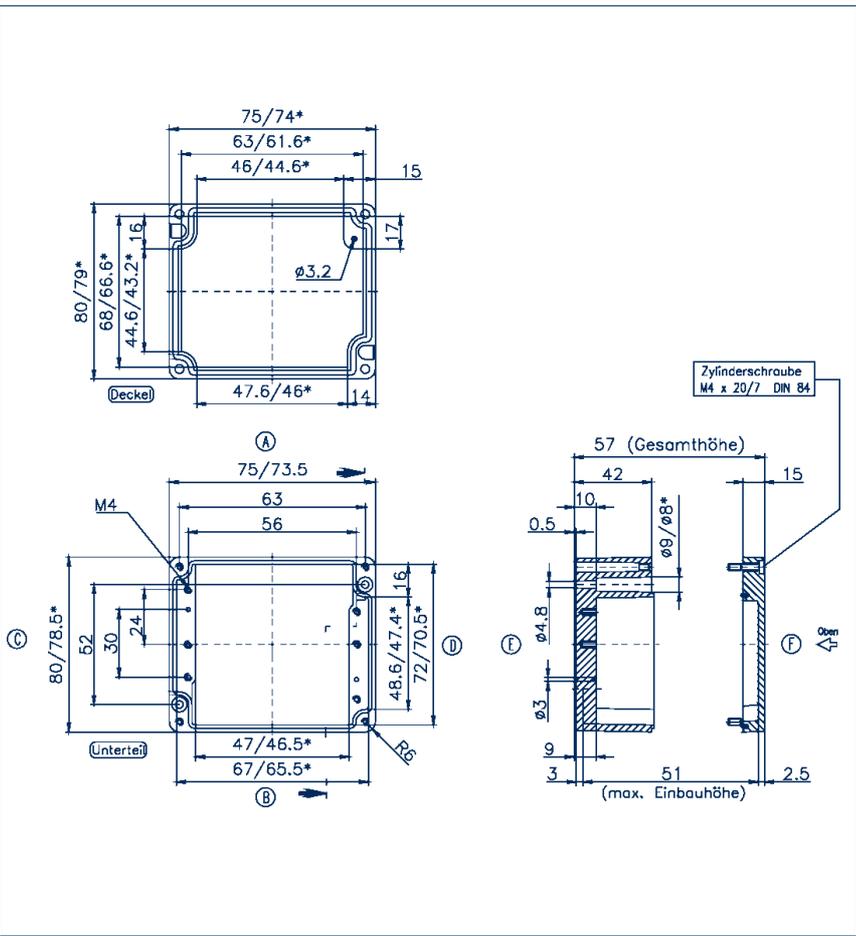
### Threaded drill hole options



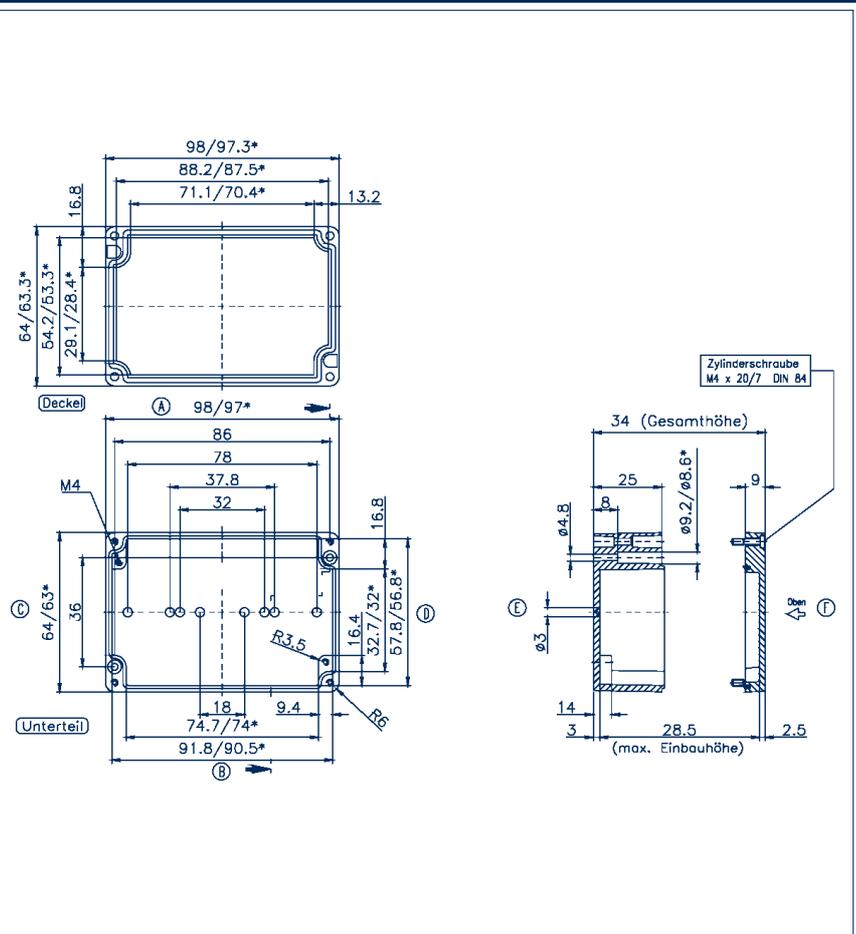
M	A/B	C/D	PG	A/B	C/D
12	4	1	7	4	1
16	-	-	9	3	1
20	-	-	11	-	-
25	-	-	13.5	-	-
32	-	-	16	-	-
40	-	-	21	-	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	-	-	-

Accessories	Qty.
DIN rail section TS 15	1
<b>Cat. no.</b>	<b>4559.2</b>
DIN rail section TS 35	100
<b>Cat. no.</b>	<b>4557.0</b>
Mounting screw BS	1
<b>Cat. no.</b>	<b>4500.7</b>
Mounting plate MP	
<b>Cat. no.</b>	
Wall brackets WL	
<b>Cat. no.</b>	
External hinges (pair) AG	
<b>Cat. no.</b>	

### Dimension diagram



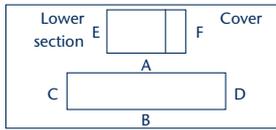
### Dimension diagram



## Aluminium housing, CA 122/80

Outer dimensions, mm	122 x 120 x 80
Weight, g	940

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	16	11	7	16	11
16	8	5	9	11	6
20	6	4	11	6	4
25	3	2	13.5	6	3
32	2	1	16	5	2
40	-	-	21	2	2
50	-	-	29	2	1
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	-	-	-

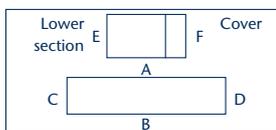
### Accessories

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 107 mm long	
<b>Cat. no.</b>	<b>4507.1</b>	1
Mounting screw BS	BS M 6x8	
<b>Cat. no.</b>	<b>4558.0</b>	100
Mounting plate MP	MP /A 122	
<b>Cat. no.</b>	<b>4500.5</b>	1
Wall brackets WL	WL (set)	
<b>Cat. no.</b>	<b>4509.3</b>	1
External hinges (pair) AG	AG (pair)	
<b>Cat. no.</b>	<b>4509.6</b>	1

## Aluminium housing, CA 125/57

Outer dimensions, mm	125 x 80 x 57
Weight, g	355

### Threaded drill hole options

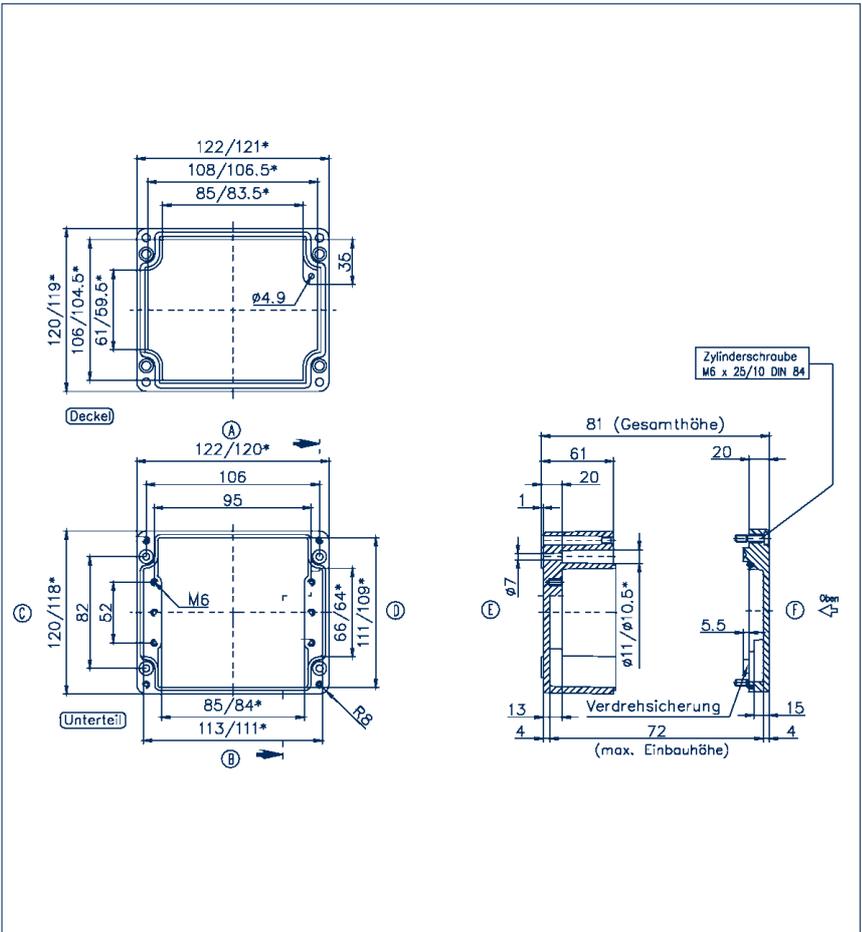


M	A/B	C/D	PG	A/B	C/D
12	12	5	7	12	5
16	5	2	9	8	2
20	4	2	11	5	2
25	3	-	13.5	4	2
32	-	-	16	3	1
40	-	-	21	2	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	-	-	-

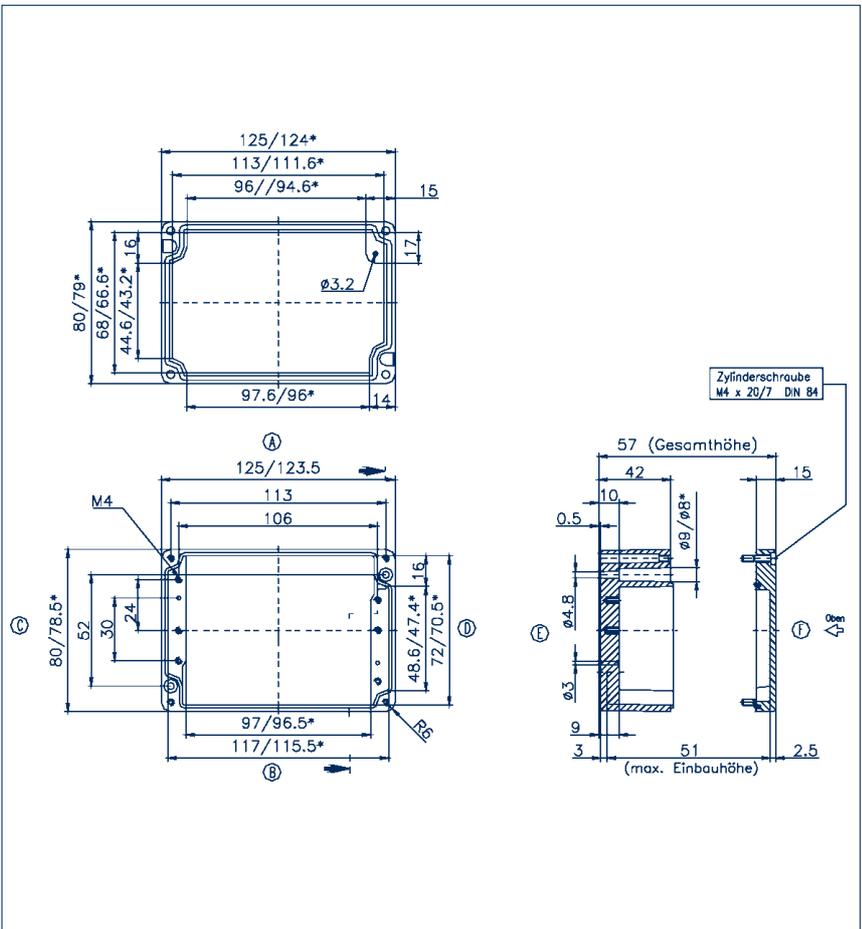
### Accessories

		Qty.
DIN rail section TS 15	TS 15/110 mm long	
<b>Cat. no.</b>	<b>4510.8</b>	1
DIN rail section TS 35		
<b>Cat. no.</b>		
Mounting screw BS	BS M 4x5	
<b>Cat. no.</b>	<b>4557.0</b>	100
Mounting plate MP	MP /A 125	
<b>Cat. no.</b>	<b>4500.9</b>	1
Wall brackets WL	WL (set)	
<b>Cat. no.</b>	<b>4509.3</b>	1
External hinges (pair) AG		
<b>Cat. no.</b>		

## Dimension diagram



## Dimension diagram

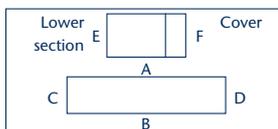




## Aluminium housing, CA 175/57

Outer dimensions, mm 175 x 80 x 57  
Weight, g 530

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	17	5	7	17	5
16	7	2	9	11	2
20	6	2	11	7	2
25	4	-	13.5	6	2
32	-	-	16	5	1
40	-	-	21	4	-
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	-	-	-

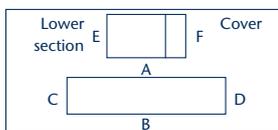
### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 160 mm long	1
<b>Cat. no.</b>	<b>4507.0</b>	
DIN rail section TS 35	TS 35 / 160 mm long	1
<b>Cat. no.</b>	<b>4510.9</b>	
Mounting screw BS	BS M 4x5	100
<b>Cat. no.</b>	<b>4557.0</b>	
Mounting plate MP	MP / A 175	1
<b>Cat. no.</b>	<b>4501.3</b>	
Wall brackets WL		
<b>Cat. no.</b>		
External hinges (pair) AG		
<b>Cat. no.</b>		

## Aluminium housing, CA 200/110

Outer dimensions, mm 200 x 230 x 110  
Weight, g 2420

### Threaded drill hole options

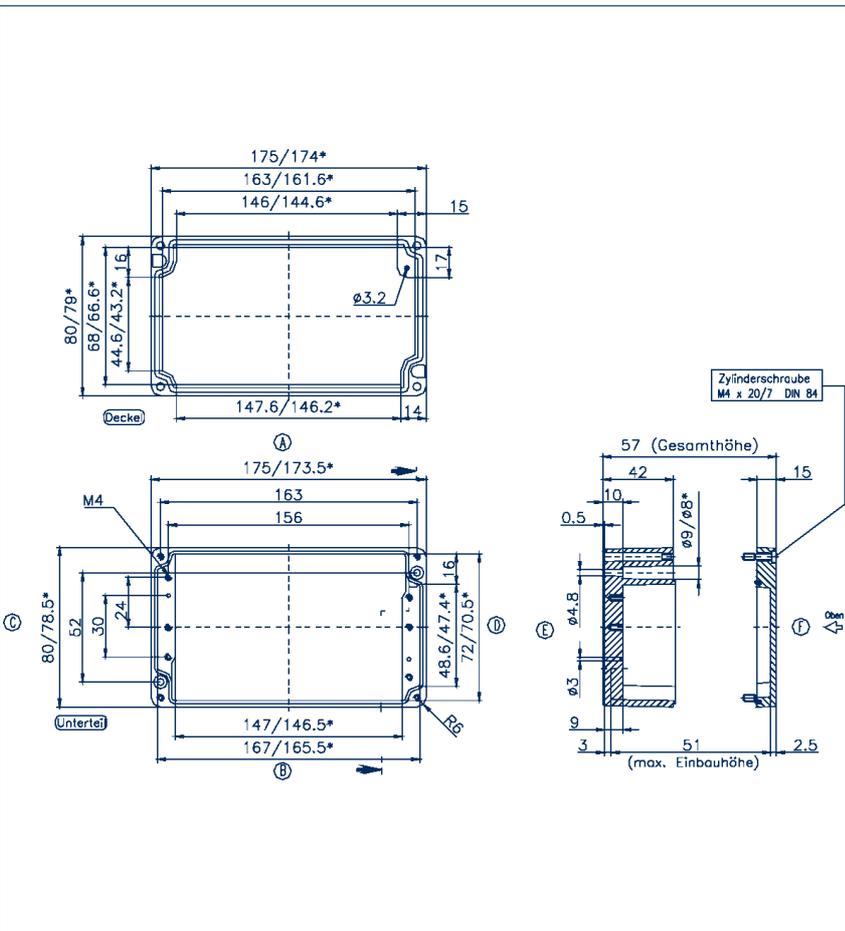


M	A/B	C/D	PG	A/B	C/D
12	45	45	7	45	45
16	22	18	9	28	28
20	18	17	11	20	18
25	8	8	13.5	18	17
32	6	5	16	15	12
40	3	3	21	8	8
50	2	2	29	5	4
63	2	2	36	3	3
-	-	-	42	2	2
-	-	-	48	2	2

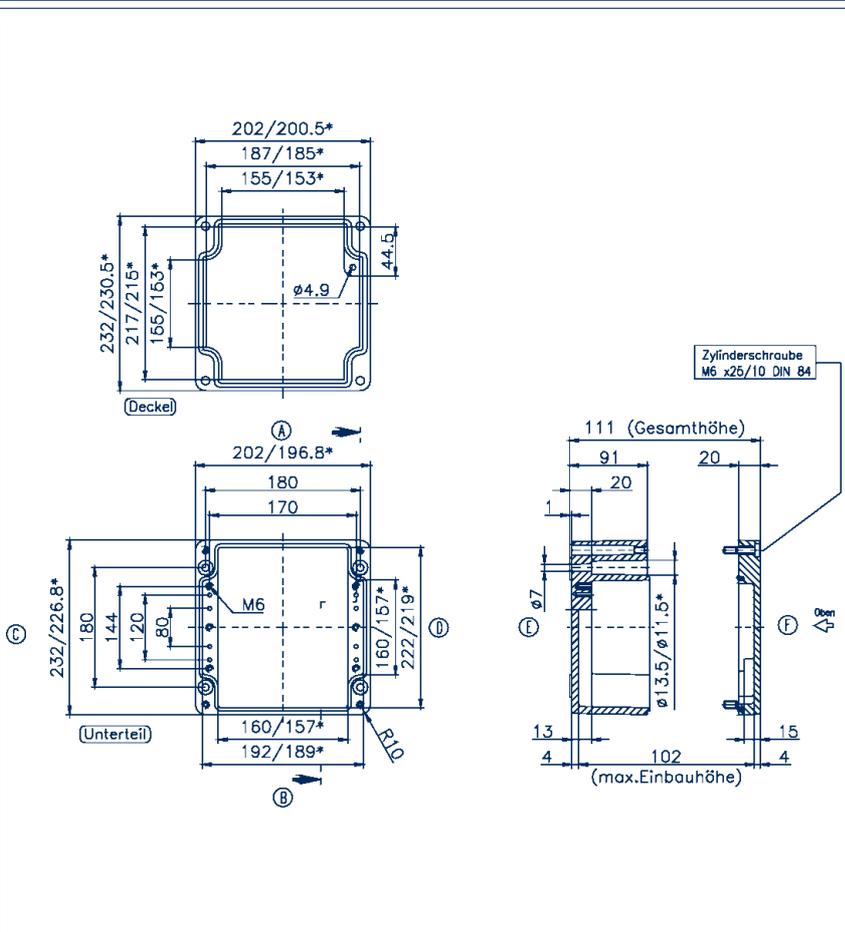
### Accessories

		Qty.
DIN rail section TS 15	TS 15 / 160 mm long	1
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 186 mm long	1
<b>Cat. no.</b>	<b>4560.1</b>	
Mounting screw BS	BS M 6x8	100
<b>Cat. no.</b>	<b>4558.0</b>	
Mounting plate MP	MP / A 2023	1
<b>Cat. no.</b>	<b>4512.6</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.4</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4509.6</b>	

## Dimension diagram



## Dimension diagram

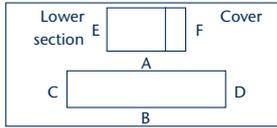


## Aluminium housing, CA

### Aluminium housing, CA 220/80

Outer dimensions, mm 220 x 120 x 80  
Weight, g 1390

#### Threaded drill hole options



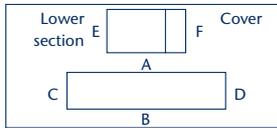
M	A/B	C/D	PG	A/B	C/D
12	34	11	7	34	11
16	15	6	9	24	6
20	14	4	11	15	4
25	6	2	13.5	14	4
32	4	1	16	11	2
40	-	-	21	6	2
50	-	-	29	4	1
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	-	-	-

Accessories	Qty.
DIN rail section TS 15	
<b>Cat. no.</b>	
DIN rail section TS 35	TS 35 / 208 mm long
<b>Cat. no.</b>	<b>4507.3</b>
Mounting screw BS	BS M 6x8
<b>Cat. no.</b>	<b>4558.0</b>
Mounting plate MP	MP/220/8/9
<b>Cat. no.</b>	<b>4501.7</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4509.4</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4509.6</b>

### Aluminium housing, CA 220/90

Outer dimensions, mm 220 x 120 x 90  
Weight, g 1410

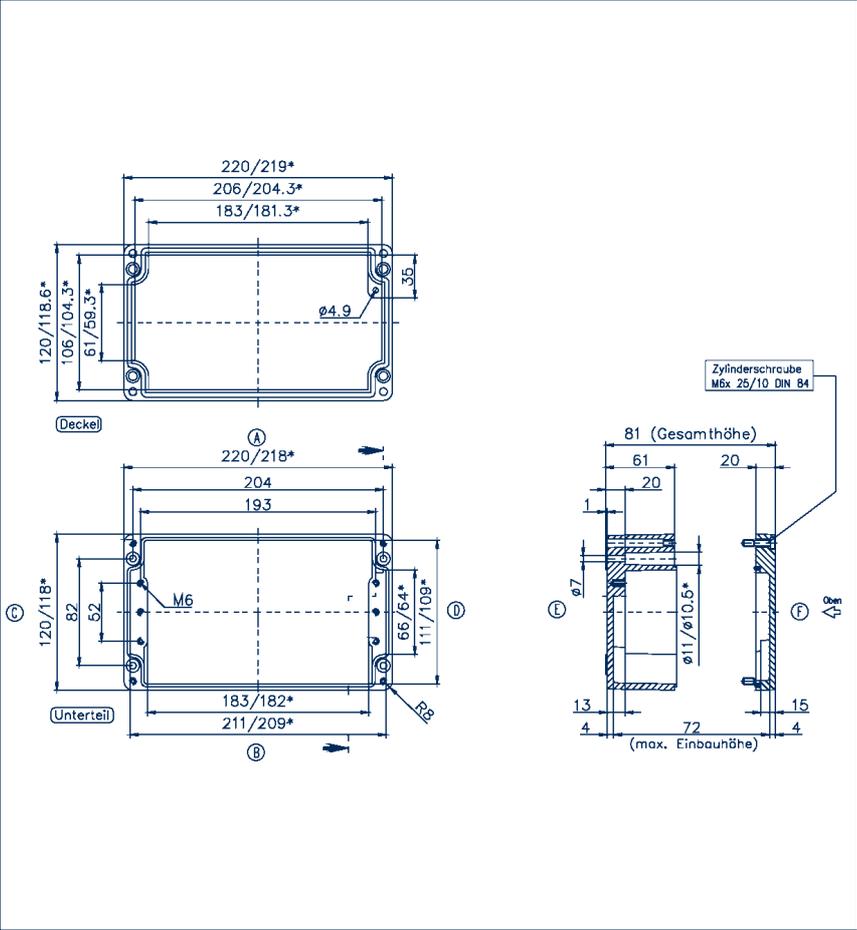
#### Threaded drill hole options



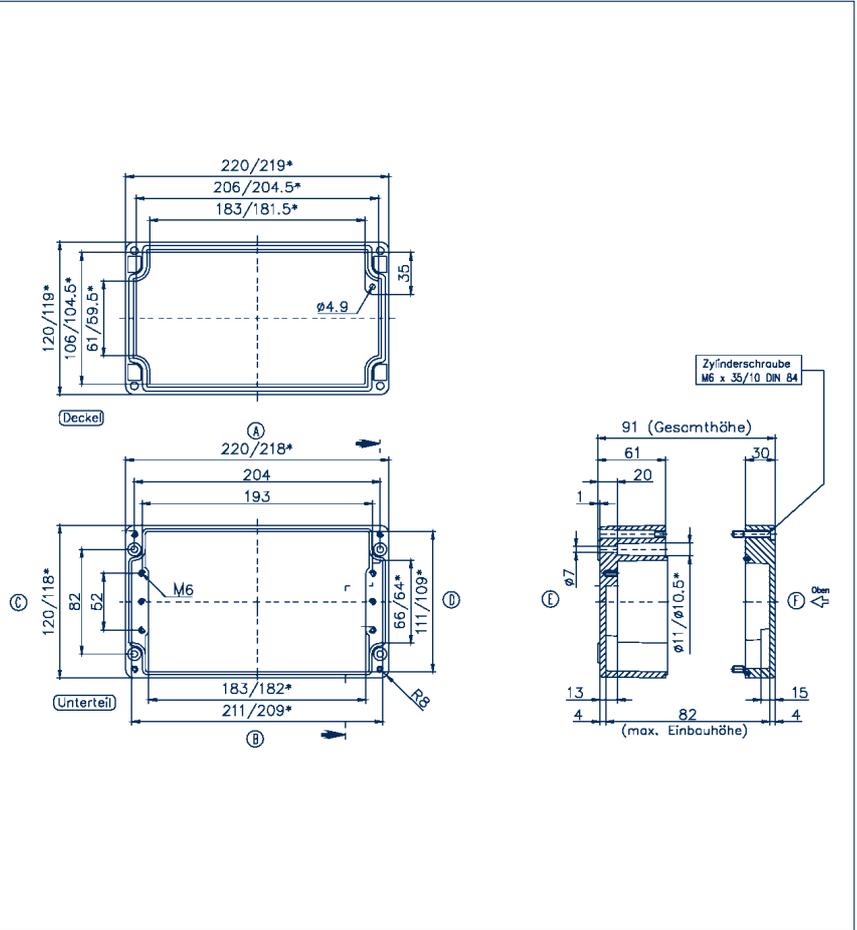
M	A/B	C/D	PG	A/B	C/D
12	34	11	7	34	11
16	15	6	9	24	6
20	14	4	11	15	4
25	6	2	13.5	14	4
32	4	1	16	11	2
40	-	-	21	6	2
50	-	-	29	4	1
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	48	-	-

Accessories	Qty.
DIN rail section TS 15	
<b>Cat. no.</b>	
DIN rail section TS 35	TS 35 / 205 mm long
<b>Cat. no.</b>	<b>4507.3</b>
Mounting screw BS	BS M 6x8
<b>Cat. no.</b>	<b>4558.0</b>
Mounting plate MP	MP/220/8/9
<b>Cat. no.</b>	<b>4501.7</b>
Wall brackets WL	WL (set)
<b>Cat. no.</b>	<b>4509.4</b>
External hinges (pair) AG	AG (pair)
<b>Cat. no.</b>	<b>4509.6</b>

### Dimension diagram



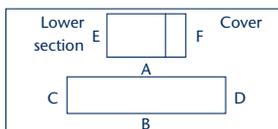
### Dimension diagram



## Aluminium housing, CA 250/52

Outer dimensions, mm 250 x 80 x 52  
Weight, g 710

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	26	6	7	26	6
16	10	2	9	17	3
20	9	2	11	10	2
25	6	1	13.5	9	2
32	-	-	16	7	1
40	-	-	21	4	1
50	-	-	29	-	-
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	48	-	-

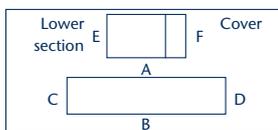
### Accessories

Qty.

## Aluminium housing, CA 260/90

Outer dimensions, mm 260 x 160 x 90  
Weight, g 2010

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	50	16	7	50	16
16	24	8	9	30	11
20	17	6	11	23	6
25	10	3	13.5	17	6
32	5	2	16	14	5
40	3	1	21	9	3
50	3	-	29	5	2
63	-	-	36	3	1
-	-	-	42	3	-
-	-	-	48	-	-

### Accessories

DIN rail section TS 15

Cat. no.

DIN rail section TS 35 TS 35 / 248 mm long

Cat. no.

4507.5

1

Mounting screw BS

BS M 6x8

Cat. no.

4558.0

100

Mounting plate MP

MP /A 260

Cat. no.

4502.1

1

Wall brackets WL

WL (set)

Cat. no.

4509.4

1

External hinges (pair) AG

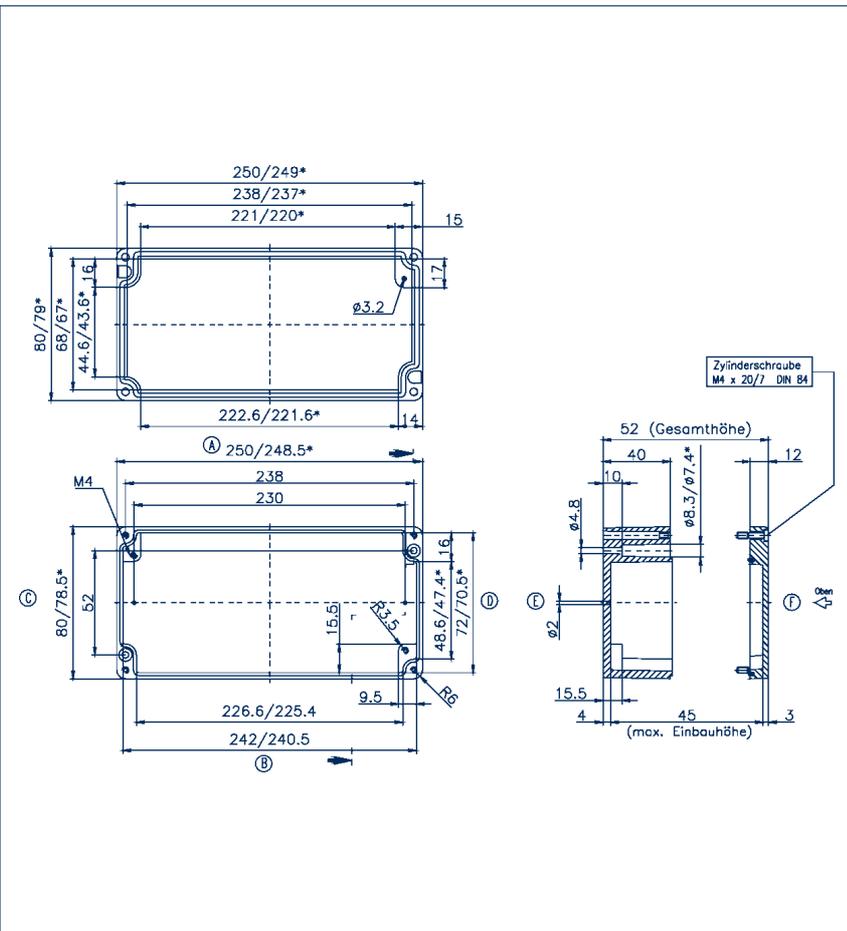
AG (pair)

Cat. no.

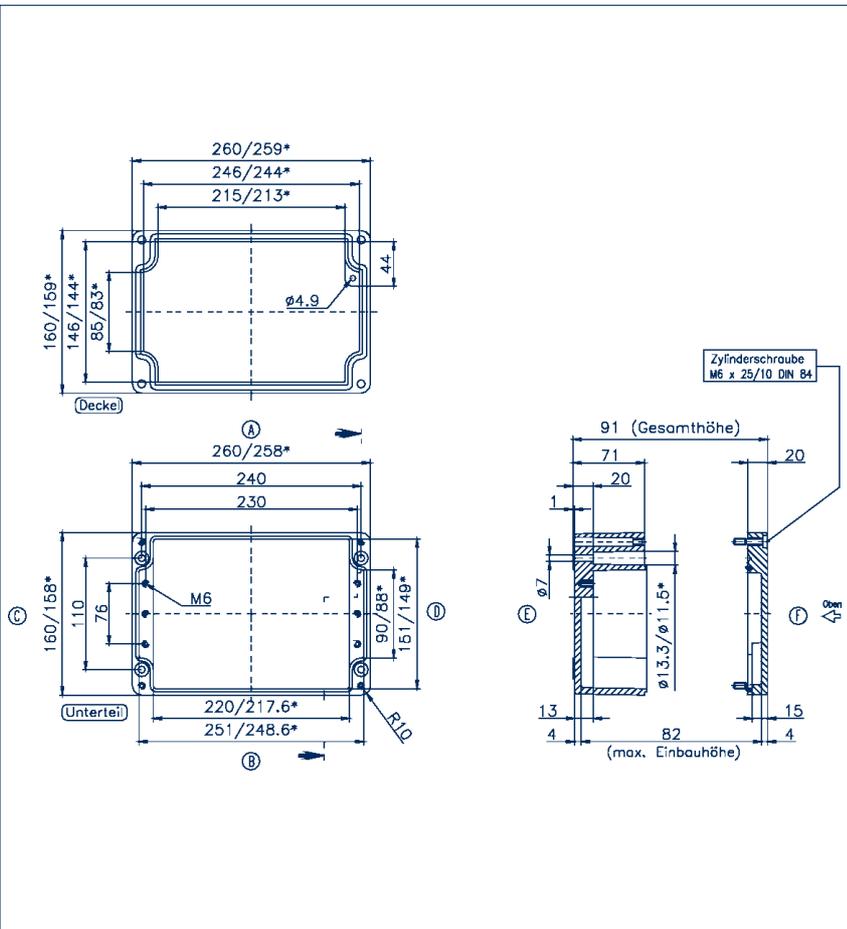
4509.6

1

## Dimension diagram



## Dimension diagram

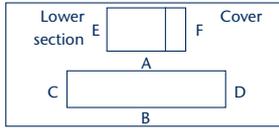


## Aluminium housing, CA

### Aluminium housing, CA 280/100

Outer dimensions, mm	280 x 180 x 100
Weight, g	2900

### Threaded drill hole options



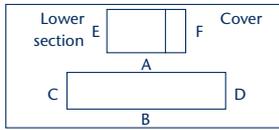
M	A/B	C/D	PG	A/B	C/D
12	52	22	7	52	22
16	26	10	9	33	15
20	18	8	11	23	10
25	11	4	13.5	18	8
32	5	2	16	14	7
40	4	2	21	10	4
50	3	-	29	5	2
63	-	-	36	4	2
-	-	-	42	3	-
-	-	-	48	-	-

Accessories			Qty.
DIN rail section TS 15			
Cat. no.	DIN rail section TS 35		TS 35 / 264 mm long
	4570.0		1
Cat. no.	Mounting screw BS		BS M 6x8
	4558.0		100
Cat. no.	Mounting plate MP		MP / A 280
	4571.0		1
Cat. no.	Wall brackets WL		WL (set)
	4509.4		1
Cat. no.	External hinges (pair) AG		AG (pair)
	4509.6		1

### Aluminium housing, CA 280/110

Outer dimensions, mm	280 x 230 x 110
Weight, g	2970

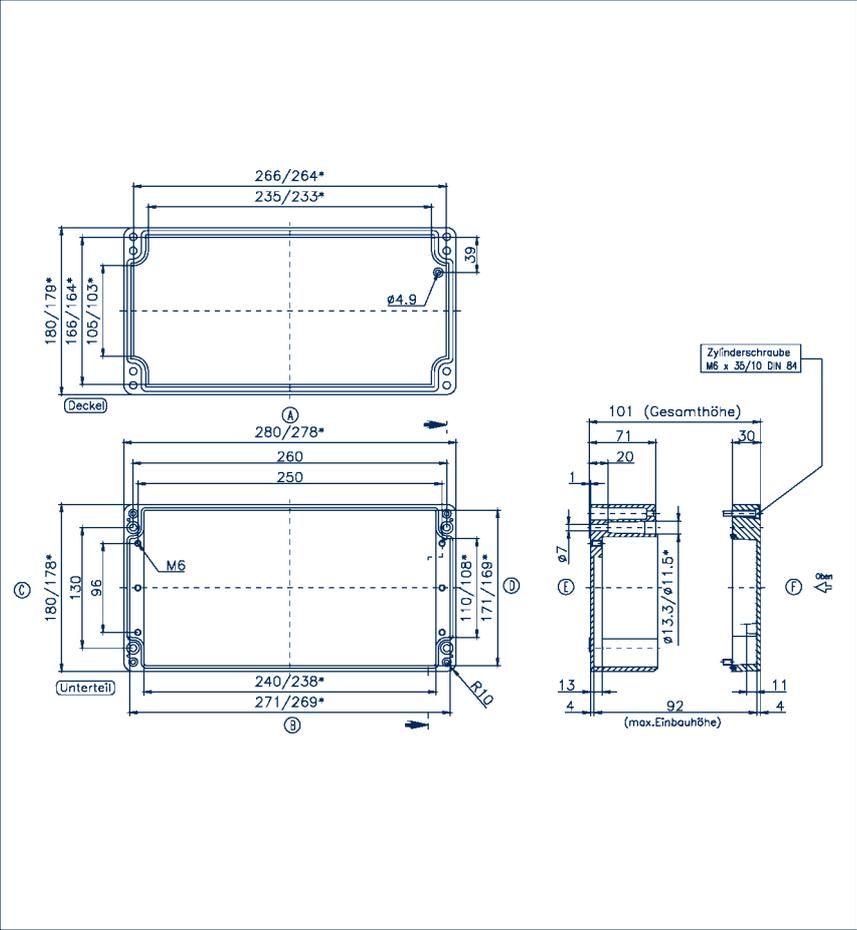
### Threaded drill hole options



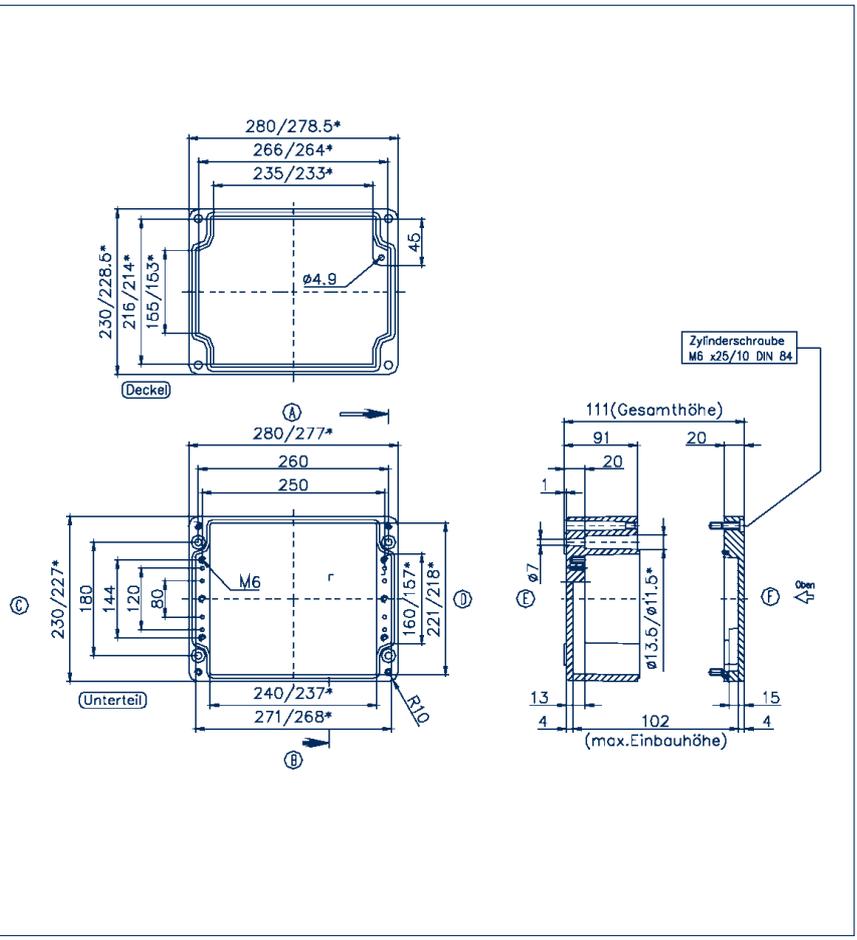
M	A/B	C/D	PG	A/B	C/D
12	70	45	7	68	45
16	32	18	9	44	28
20	24	17	11	32	18
25	12	8	13.5	24	17
32	9	5	16	21	12
40	4	3	21	12	8
50	3	2	29	9	4
63	3	2	36	4	3
-	-	-	42	3	2
-	-	-	48	3	2

Accessories			Qty.
DIN rail section TS 15			
Cat. no.	DIN rail section TS 35		TS 35 / 264 mm long
	4570.0		1
Cat. no.	Mounting screw BS		BS M 6x8
	4558.0		100
Cat. no.	Mounting plate MP		MP / A 280
	4571.0		1
Cat. no.	Wall brackets WL		WL (set)
	4509.4		1
Cat. no.	External hinges (pair) AG		AG (pair)
	4509.6		1

### Dimension diagram



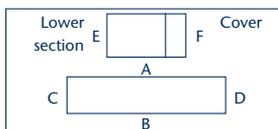
### Dimension diagram



## Aluminium housing, CA 330/110

Outer dimensions, mm 330 x 230 x 110  
Weight, g 3370

### Threaded drill hole options



M	A/B	C/D	PG	A/B	C/D
12	84	45	7	81	45
16	42	18	9	52	28
20	30	17	11	38	18
25	15	8	13.5	30	17
32	11	5	16	27	12
40	5	3	21	15	8
50	4	2	29	11	4
63	4	2	36	5	3
-	-	-	42	4	2
-	-	-	48	4	2

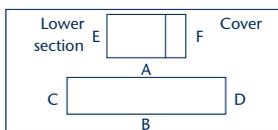
### Accessories

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 314 mm long	1
<b>Cat. no.</b>	<b>4560.3</b>	
Mounting screw BS	BS M 6x8	100
<b>Cat. no.</b>	<b>4558.0</b>	
Mounting plate MP	MP /A 3323	1
<b>Cat. no.</b>	<b>4512.8</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.4</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4509.6</b>	

## Aluminium housing, CA 330/180

Outer dimensions, mm 330 x 230 x 180  
Weight, g 5240

### Threaded drill hole options

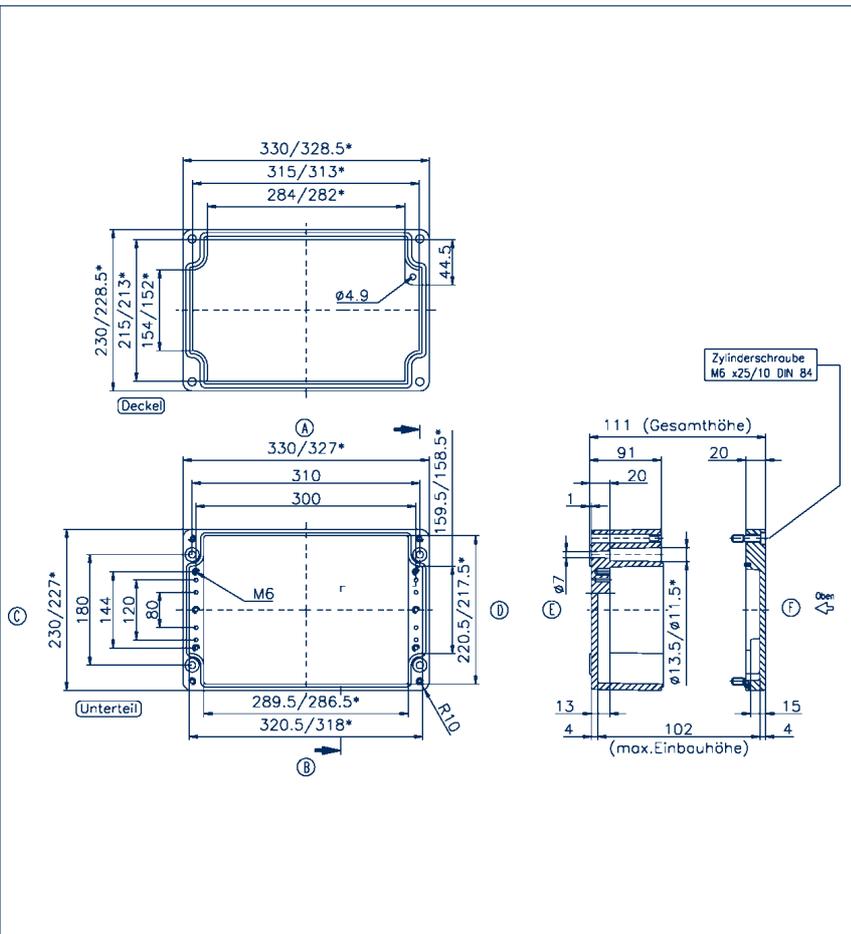


M	A/B	C/D	PG	A/B	C/D
12	165	81	7	144	81
16	77	36	9	104	49
20	60	33	11	77	36
25	30	16	13.5	60	33
32	18	9	16	45	25
40	11	6	21	30	16
50	8	5	29	18	9
63	8	4	36	11	5
-	-	-	42	8	4
-	-	-	48	8	4

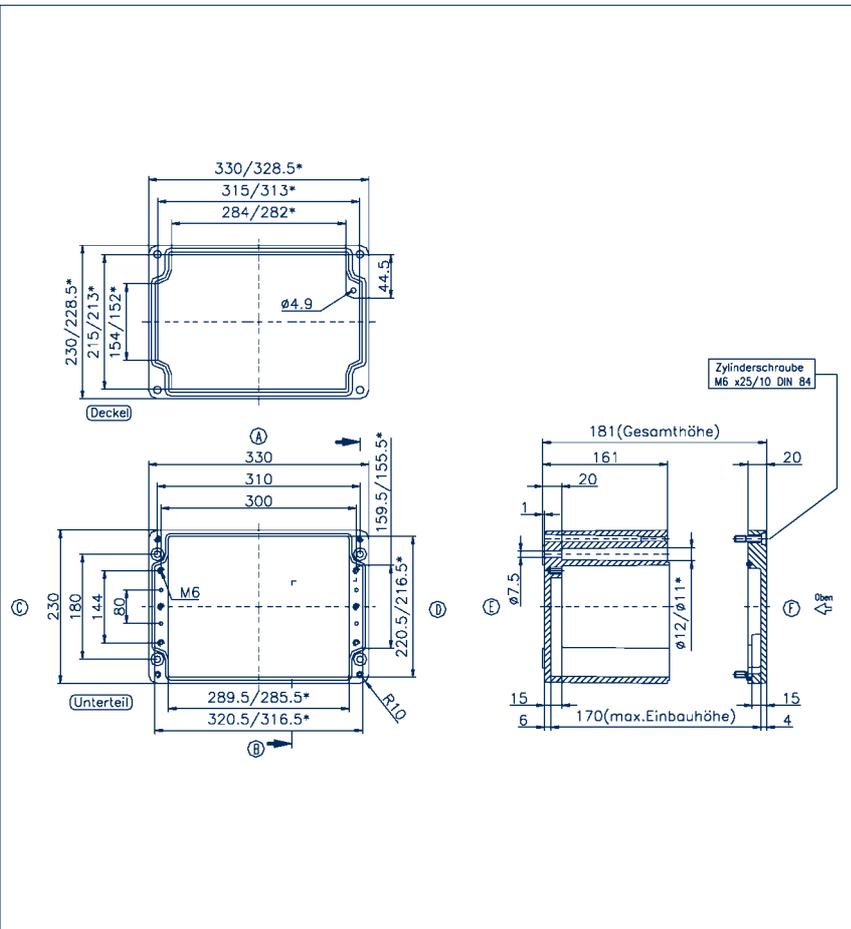
### Accessories

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 314 mm long	1
<b>Cat. no.</b>	<b>4560.3</b>	
Mounting screw BS	BS M 6x8	100
<b>Cat. no.</b>	<b>4558.0</b>	
Mounting plate MP	MP /A 3323	1
<b>Cat. no.</b>	<b>4512.8</b>	
Wall brackets WL	WL (set)	1
<b>Cat. no.</b>	<b>4509.4</b>	
External hinges (pair) AG	AG (pair)	1
<b>Cat. no.</b>	<b>4509.6</b>	

## Dimension diagram



## Dimension diagram

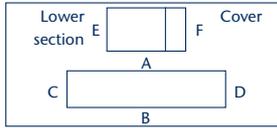


## Aluminium housing, CA

### Aluminium housing, CA 360/80

Outer dimensions, mm 360 x 120 x 80  
Weight, g 2100

#### Threaded drill hole options



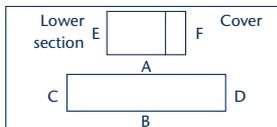
M	A/B	C/D	PG	A/B	C/D
12	58	11	7	58	11
16	26	5	9	41	6
20	24	4	11	26	4
25	10	2	13.5	24	3
32	7	1	16	20	2
40	-	-	21	10	2
50	-	-	29	7	1
63	-	-	36	-	-
-	-	-	42	-	-
-	-	-	48	-	-

Accessories			Qty.
DIN rail section TS 15			
<b>Cat. no.</b>	DIN rail section TS 35		TS 35 / 348 mm long
	<b>4572.0</b>		1
<b>Cat. no.</b>	Mounting screw BS		BS M 6x8
	<b>4558.0</b>		100
<b>Cat. no.</b>	Mounting plate MP		MP /A 362
	<b>4512.5</b>		1
<b>Cat. no.</b>	Wall brackets WL		WL (set)
	<b>4509.4</b>		1
<b>Cat. no.</b>	External hinges (pair) AG		AG (pair)
	<b>4509.6</b>		1

### Aluminium housing, CA 360/90

Outer dimensions, mm 360 x 160 x 90  
Weight, g 2520

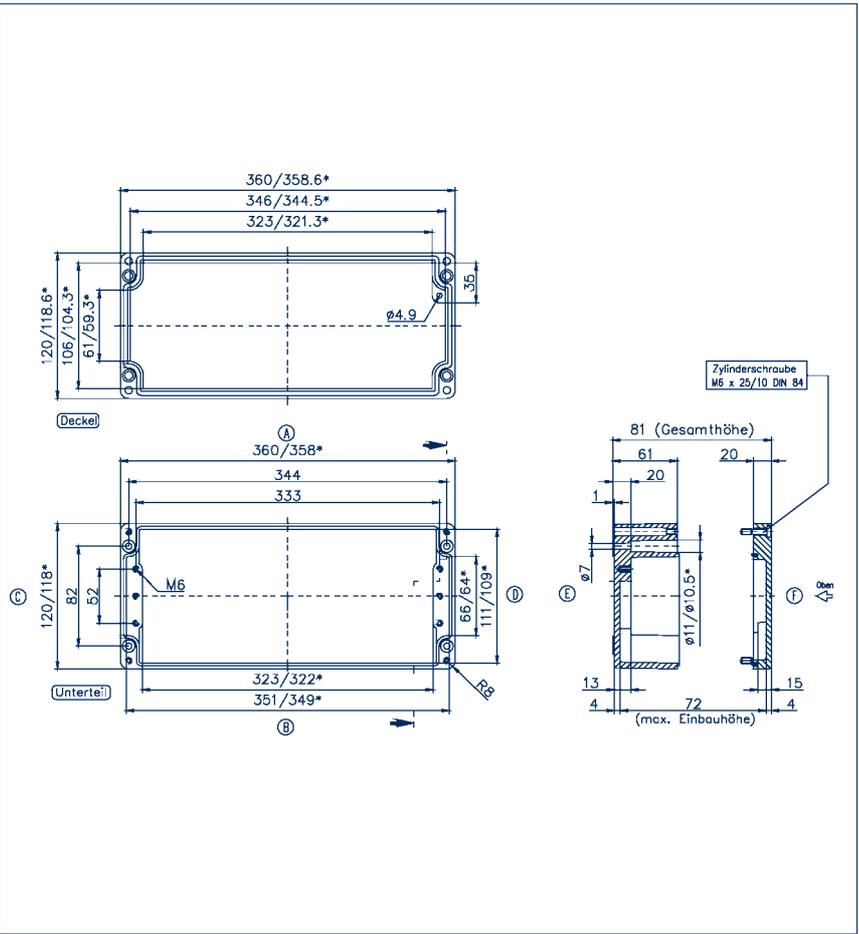
#### Threaded drill hole options



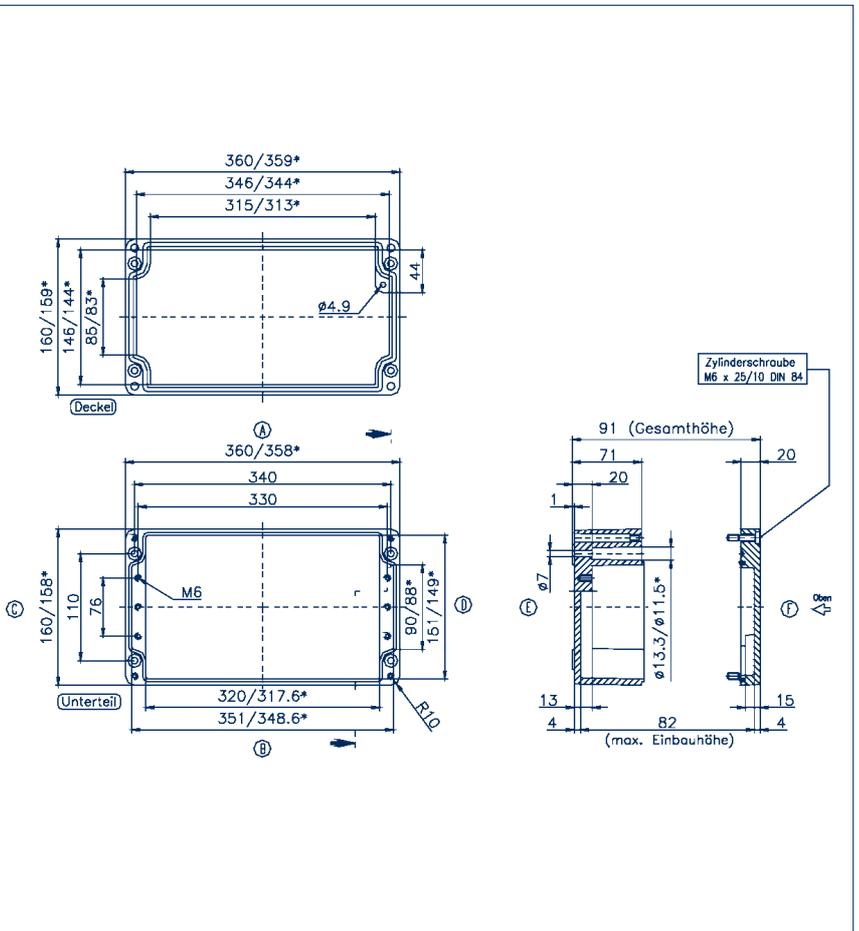
M	A/B	C/D	PG	A/B	C/D
12	72	16	7	72	16
16	36	8	9	42	11
20	24	6	11	33	6
25	15	3	13.5	24	6
32	7	2	16	20	5
40	5	1	21	14	3
50	4	-	29	7	2
63	-	-	36	5	1
-	-	-	42	4	-
-	-	-	48	-	-

Accessories			Qty.
DIN rail section TS 15			
<b>Cat. no.</b>	DIN rail section TS 35		TS 35 / 338 mm long
	<b>4507.6</b>		1
<b>Cat. no.</b>	Mounting screw BS		BS M 6x8
	<b>4558.0</b>		100
<b>Cat. no.</b>	Mounting plate MP		MP /A 360
	<b>4502.3</b>		1
<b>Cat. no.</b>	Wall brackets WL		WL (set)
	<b>4509.4</b>		1
<b>Cat. no.</b>	External hinges (pair) AG		AG (pair)
	<b>4509.6</b>		1

### Dimension diagram



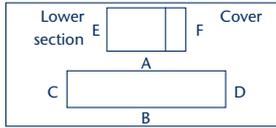
### Dimension diagram



## Aluminium housing, CA 560/90

Outer dimensions, mm 160 x 560 x 90  
Weight, g 3740

### Threaded drill hole options

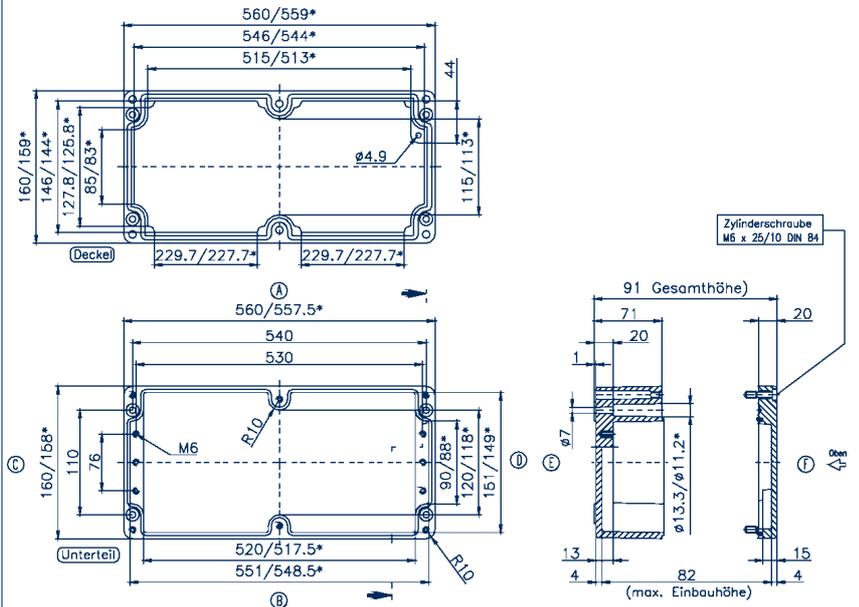


M	A/B	C/D	PG	A/B	C/D
12	104	16	7	104	16
16	58	8	9	66	11
20	40	6	11	58	6
25	24	3	13.5	40	6
32	12	2	16	32	5
40	8	1	21	24	3
50	6	-	29	12	2
63	-	-	36	8	1
-	-	-	42	6	-
-	-	-	48	-	-

### Accessories

		Qty.
DIN rail section TS 15		
<b>Cat. no.</b>		
DIN rail section TS 35	TS 35 / 545 mm long	
<b>Cat. no.</b>	<b>4507.7</b>	1
Mounting screw BS	BS M 6x8	
<b>Cat. no.</b>	<b>4558.0</b>	100
Mounting plate MP	MP /A 560	
<b>Cat. no.</b>	<b>4502.5</b>	1
Wall brackets WL	WL (set)	
<b>Cat. no.</b>	<b>4509.4</b>	1
External hinges (pair) AG	AG (pair)	
<b>Cat. no.</b>	<b>4509.6</b>	1

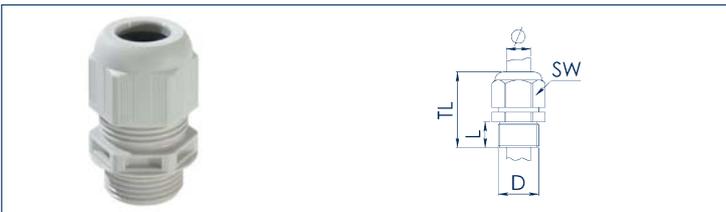
## Dimension diagram



Metric cable gland systems

Metric cable gland system

Plastic cable glands / metric threading



Material: Polyamide UL94-V0, protection: IP 68-5-bar,  
 colour: RAL 7035 bright grey, colour variants (.4) RAL 9005 black  
 Seal: EPDM, temperature range -20°C to +100°C  
 VDE certified: acc. to DIN EN 50626

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/M 12 x 1.5	4573.2	100	3...7	9	16	29-34
KV/M 16 x 1.5	4574.2	100	4.5...10	9	20	31-37
KV/M 20 x 1.5	4575.2	100	6...13	10	24	36-45
KV/M 25 x 1.5	4576.2	50	9...17	10	29	38-47
KV/M 32 x 1.5	4577.2	25	13...21	12	36	42-51
KV/M 40 x 1.5	4578.2	10	16...28	12	46	52-65
KV/M 50 x 1.5	4579.2	5	21...35	14	55	59-72
KV/M 63 x 1.5	4580.2	5	34...48	15	68	64-78

Plastic cable glands / long metric threading

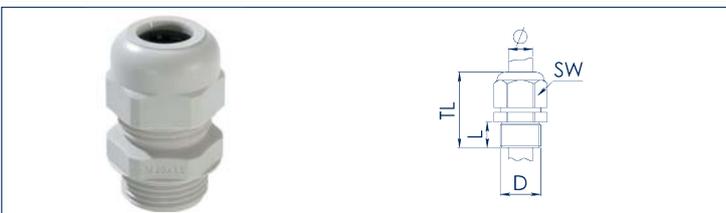


Material: Polyamide UL94-V0, protection: IP 68-5-bar,  
 colour: RAL 7035 bright grey,  
 Seal: EPDM,  
 Temperature range: -20°C to +100°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/M-L 12 x 1.5	17599.2	50	3...7	15	16	35-40
KV/M-L 16 x 1.5	17600.2	50	4.5...10	15	20	37-43
KV/M-L 20 x 1.5	17601.2	50	6...13	15	24	41-50
KV/M-L 25 x 1.5	17602.2	50	9...17	15	29	43-52
KV/M-L 32 x 1.5	17603.2	25	13...21	15	36	45-54
KV/M-L 40 x 1.5	17604.2	10	16...28	18	46	58-71
KV/M-L 50 x 1.5	17605.2	10	21...35	18	55	63-76
KV/M-L 63 x 1.5	17606.2	10	34...48	18	68	67-81

4

Plastic cable glands / metric threading



Material: polyamide, protection IP 66,  
 Cable gland with strain relief mechanism  
 colour: RAL 7035 bright grey,  
 Temperature range: -20°C to +80°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KVC/M 12 x 1.5	4581.2	50	4...6	9	15	28-32
KVC/M 16 x 1.5	4582.2	50	5...8	9	19	32-36
KVC/M 20 x 1.5	4583.2	50	7...12	10	24	35-41
KVC/M 25 x 1.5	4584.2	50	9...14	11	27	38-44
KVC/M 32 x 1.5	4585.2	25	13...17	11	33	43-50
KVC/M 40 x 1.5	4586.2	25	17...24	12	42	47-56
KVC/M 50 x 1.5	4587.2	10	23...32	14	53	56-65
KVC/M 63 x 1.5	4588.2	10	37...44	15	65	60-68

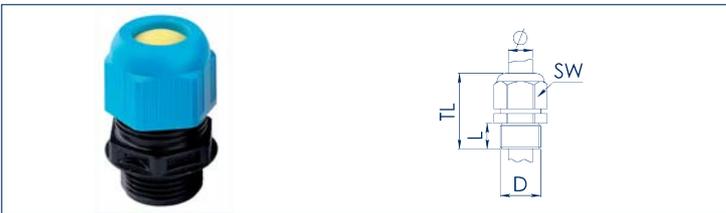
ATEX plastic cable glands / metric threading / increased security



Explosion protection: II 2 G D Eex e II, certifications: PTB 05 ATEX 1068X  
 Material: polyamide, self-extinguishing, protection: IP 66,  
 colour: RAL 9001 black  
 Temperature range: -20°C to +75°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/Mex-e 16 x 1.5	17500.4	50	4...9	9	20	31-37
KV/Mex-e 20 x 1.5	17501.4	50	6...13	10	24	36-45
KV/Mex-e 25 x 1.5	17502.4	50	7...17	10	29	38-47
KV/Mex-e 32 x 1.5	17503.4	25	13...21	12	36	42-51
KV/Mex-e 40 x 1.5	17504.4	10	17...28	12	46	52-65
KV/Mex-e 50 x 1.5	17505.4	4	23...35	14	55	59-72
KV/Mex-e 63 x 1.5	17506.4	1	31...48	15	68	64-78

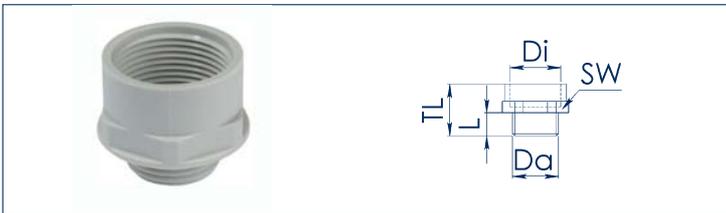
ATEX plastic cable glands / metric threading / intrinsically safe



Explosion protection: II 2 G D Eex e II, certifications: PTB 05 ATEX 1068X  
 Material: polyamide, self-extinguishing, protection: IP 66,  
 colour: black-blue  
 Temperature range: -20°C to +75°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/Mex-i 16 x 1.5	17500.5	50	4...9	9	20	31-37
KV/Mex-i 20 x 1.5	17501.5	50	6...13	10	24	36-45
KV/Mex-i 25 x 1.5	17502.5	50	7...17	10	29	38-47
KV/Mex-i 32 x 1.5	17503.5	25	13...21	12	36	42-51
KV/Mex-i 40 x 1.5	17504.5	10	17...28	12	46	52-65
KV/Mex-i 50 x 1.5	17505.5	4	23...35	14	55	59-72
KV/Mex-i 63 x 1.5	17506.5	1	31...48	15	68	64-78

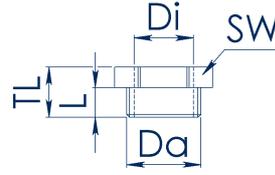
Extension - plastic / metric - metric



Material: glass-fibre reinforced polyamide  
 colour: RAL 7035 bright grey,  
 Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	Outer ø - Inner ø, mm	Thread length L, mm	Spanner width AF, mm	TL, mm
VEM 12/16	17607.2	100	12x1.5 - 16x1.5	9		27
VEM 16/20	17608.2	100	16x1.5 - 20x1.5	9	20	27
VEM 20/25	17609.2	100	20x1.5 - 25x1.5	9	24	27
VEM 25/32	17610.2	100	25x1.5 - 32x1.5	10	29	28
VEM 32/40	17611.2	50	32x1.5 - 40x1.5	12	36	30
VEM 40/50	17612.2	25	40x1.5 - 50x1.5	12	46	30
VEM 50/63	17613.2	5	50x1.5 - 63x1.5	14	55	32
					68	

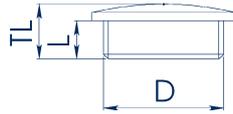
## Plastic reducing sleeves / metric - metric



Material: glass-fibre reinforced polyamide  
 colour: RAL 7035 bright grey,  
 Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	Outer ø Da - Inner ø Di, mm	Thread length L, mm	Spanner width AF, mm	TL, mm	Type	Cat. no.	Qty.	Outer ø Da - Inner ø Di, mm	Thread length L, mm	Spanner width AF, mm	TL, mm
VRM 16/12	17614.2	100	16x1.5 - 12x1.5	9	20	16	VRM 40/20	17623.2	25	40x1.5 - 25x1.5	12	46	19
VRM 20/12	17615.2	100	20x1.5 - 12x1.5	9	24	16	VRM 40/25	17624.2	25	40x1.5 - 25x1.5	12	46	19
VRM 20/16	17616.2	100	20x1.5 - 16x1.5	9	24	27	VRM 40/32	17625.2	25	40x1.5 - 32x1.5	12	46	19
VRM 25/12	17617.2	100	25x1.5 - 12x1.5	10	29	17	VRM 50/25	17626.2	5	50x1.5 - 25x1.5	14	55	21
VRM 25/16	17618.2	100	25x1.5 - 16x1.5	10	29	17	VRM 50/32	17627.2	5	50x1.5 - 32x1.5	14	55	21
VRM 25/20	17619.2	100	25x1.5 - 20x1.5	10	29	17	VRM 50/40	17628.2	5	50x1.5 - 40x1.5	14	55	21
VRM 32/16	17620.2	50	32x1.5 - 16x1.5	12	36	19	VRM 63/32	17629.2	5	63x1.5 - 32x1.5	15	65	22
VRM 32/20	17621.2	50	32x1.5 - 20x1.5	12	36	19	VRM 63/40	17630.2	5	63x1.5 - 40x1.5	15	65	22
VRM 32/25	17622.2	50	32x1.5 - 25x1.5	12	36	19	VRM 63/50	17631.2	5	63x1.5 - 50x1.5	15	65	22

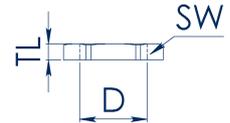
## Plastic screw plugs / metric threading



Material: glass-fibre reinforced polyamide, protection: IP 56,  
 colour: RAL 7035 bright grey,  
 Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	Head ø mm	Thread length L, mm	TL, mm
V/M 12 x 1.5	4589.2	100	15	6	8
V/M 16 x 1.5	4590.2	100	20	6	9
V/M 20 x 1.5	4591.2	100	24	6	9.5
V/M 25 x 1.5	4592.2	100	30	8	11.5
V/M 32 x 1.5	4593.2	100	37	8	12
V/M 40 x 1.5	4594.2	50	46	8	13
V/M 50 x 1.5	4595.2	50	56	10	15
V/M 63 x 1.5	4596.2	50	70	12	17

## Plastic counter nuts / metric threading



Material: glass-fibre reinforced polyamide  
 Colour variant (-4)RAL 9005 black  
 Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	TL, mm	Spanner width AF, mm
S/M 12 x 1.5	4140.2	100	5	18
S/M 16 x 1.5	4141.2	100	5	22
S/M 20 x 1.5	4142.2	100	5	27
S/M 25 x 1.5	4143.2	100	6	32
S/M 32 x 1.5	4144.2	100	6	40
S/M 40 x 1.5	4145.2	50	7	50
S/M 50 x 1.5	4146.2	50	7	60
S/M 63 x 1.5	4147.2	50	7	75

## Adjustable nipple for metric threading



Material: Thermo-plastic elastomer  
 Protection: IP 55  
 colour: grey

Type	Cat. no.	Qty.	For cable ø mm	Wall thick- ness, mm
SN/M20	4148.2	100	5...16	1.5...4.5
SN/M25	4149.2	50	5...21	1.5...4.5
SN/M32	4150.2	25	13...26.5	1.5...4.5
SN/M40	4151.2	20	13...34	1.5...4.5

## Double-membrane brackets, metric threading



Material: Thermo-plastic elastomer  
 Protection: IP 66  
 colour: grey

Type	Cat. no.	Qty.	For cable ø mm	Wall thick- ness, mm
DM/M16	4160.2	50	5...9	1.5...4.5
DM/M20	4161.2	50	7...12	1.5...4.5
DM/M25	4162.2	50	9...16	1.5...4.5
DM/M32	4163.2	25	14...21	1.5...4.5

## Metric cable gland systems

### Metric cable gland system

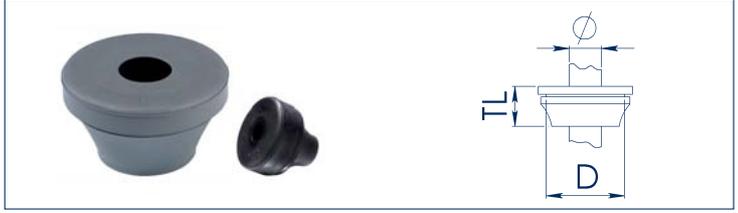
#### Seal plugs for metric threading



Material: Polyethylene  
Protection: IP 54  
colour: grey

Type	Cat. no.	Qty.	For cable ø mm	Wall thickness, mm
VS/M16	<b>4164.2</b>	100	6...10	1.5...4.0
VS/M20	<b>4165.2</b>	100	8...13.5	1.5...4.0
VS/M25	<b>4166.2</b>	50	9...16	1.5...4.0
VS/M32	<b>4167.2</b>	50	11...23	1.5...4.0
VS/M40	<b>4168.2</b>	25	17...30	1.5...4.0

#### Seal bushing for metric threading



Material: EPDM, 55° shore A, protection: IP 66/67,  
colour: RAL 7001 silver-grey, colour variant (.4) RAL 9005 black  
Temperature range: -40°C to +110°C

Type	Cat. no.	Qty.	For cable ø mm	Wall thickness, mm	Drill holes ø mm	TL, mm
FDM 12 GR	<b>17632.6</b>	50	4...7	0.5...2	12 - 13	13
FDM 16 GR	<b>17633.6</b>	50	5...10	1...4	15 - 17	18
FDM 20 GR	<b>17634.6</b>	50	8...13	1...4	18 - 19	20
FDM 25 GR	<b>17635.6</b>	50	11...17	1...4	25 - 26	21.5
FDM 32 GR	<b>17636.6</b>	50	15...21	1...4	32 - 33	25
FDM 40 GR	<b>17637.6</b>	50	19...28	1...4	40 - 41	30
FDM 50 GR	<b>17638.6</b>	10	27...35	1...4	50 - 51	35

#### Brass cable glands / metric threading



Material: Nickel-plated brass, protection: IP 68-5-bar,  
Seal: EPDM (CR), o-ring at connecting threads  
Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/M 12 x 1.5-MS	<b>4169.2</b>	100	3...7	5	16	23-30
KV/M 16 x 1.5-MS	<b>4170.2</b>	100	4.5...10	5	20	26-34
KV/M 20 x 1.5-MS	<b>4171.2</b>	100	6...13	6	24	29-37
KV/M 25 x 1.5-MS	<b>4172.2</b>	50	9...17	7	29	33-42
KV/M 32 x 1.5-MS	<b>4173.2</b>	25	13...21	8	36	36-44
KV/M 40 x 1.5-MS	<b>4174.2</b>	10	16...28	8	46	44-45
KV/M 50 x 1.5-MS	<b>4175.2</b>	5	21...35	9	55	51-62
KV/M 63 x 1.5-MS	<b>4176.2</b>	5	34...48	10	68	56-67

#### 4 Extension - brass/ metric - metric



Material: Nickel-plated brass

Type	Cat. no.	Qty.	Outer ø - Inner ø, mm	Thread length L, mm	TL, mm
VEM-MS 12/16	<b>17700.2</b>	100	12x1.5 - 16x1.5	5	15
VEM-MS 16/20	<b>17701.2</b>	100	16x1.5 - 20x1.5	5	17
VEM-MS 20/25	<b>17702.2</b>	50	20x1.5 - 25x1.5	6	19
VEM-MS 25/32	<b>17703.2</b>	50	25x1.5 - 32x1.5	7	21
VEM-MS 32/40	<b>17704.2</b>	50	32x1.5 - 40x1.5	8	24
VEM-MS 40/50	<b>17705.2</b>	25	40x1.5 - 50x1.5	8	31
VEM-MS 50/63	<b>17706.2</b>	10	50x1.5 - 63x1.5	9	31

#### Brass reducer / metric - metric



Material: Nickel-plated brass

Type	Cat. no.	Qty.	Outer ø - Inner ø, mm	Thread length L, mm	TL, mm	Type	Cat. no.	Qty.	Outer ø - Inner ø, mm	Thread length L, mm	TL, mm
VRM-MS 16/12	<b>17707.2</b>	100	16x1.5 - 12x1.5	5	8	VRM-MS 40/25	<b>17714.2</b>	25	40x1.5 - 25x1.5	8	11.5
VRM-MS 20/12	<b>17708.2</b>	100	20x1.5 - 12x1.5	6	8.5	VRM-MS 40/32	<b>17715.2</b>	25	40x1.5 - 32x1.5	8	11.5
VRM-MS 20/16	<b>17709.2</b>	100	20x1.5 - 16x1.5	6	8.5	VRM-MS 50/32	<b>17716.2</b>	10	50x1.5 - 32x1.5	9	12.5
VRM-MS 25/16	<b>17710.2</b>	50	25x1.5 - 16x1.5	7	10	VRM-MS 50/40	<b>17717.2</b>	25	50x1.5 - 40x1.5	9	12.5
VRM-MS 25/20	<b>17711.2</b>	100	25x1.5 - 20x1.5	7	10	VRM-MS 63/40	<b>17718.2</b>	10	63x1.5 - 40x1.5	10	14
VRM-MS 32/20	<b>17712.2</b>	25	32x1.5 - 20x1.5	8	11.5	VRM-MS 63/50	<b>17719.2</b>	10	63x1.5 - 50x1.5	10	14
VRM-MS 32/25	<b>17713.2</b>	50	32x1.5 - 25x1.5	8	11.5						

### Brass screw plugs / metric threading



Material: Nickel-plated brass, protection: IP 54

### Brass counter nuts / metric threading



Material: Nickel-plated brass

Type	Cat. no.	Qty.	Head ø mm	Thread length L, mm	TL, mm
V/M 12 x 1.5-MS	<b>4178.2</b>	100	16	5	7,5
V/M 16 x 1.5-MS	<b>4179.2</b>	100	20	5	8
V/M 20 x 1.5-MS	<b>4180.2</b>	100	24	6,5	9,5
V/M 25 x 1.5-MS	<b>4181.2</b>	100	28	7	11
V/M 32 x 1.5-MS	<b>4182.2</b>	50	35	8	12
V/M 40 x 1.5-MS	<b>4183.2</b>	50	45	8,5	13
V/M 50 x 1.5-MS	<b>4184.2</b>	25	55	9	15
V/M 63 x 1.5-MS	<b>4185.2</b>	10	68	10	16

Type	Cat. no.	Qty.	TL, mm	Spanner width AF, mm
S/M 12 x 1.5-MS	<b>4186.2</b>	100	2,8	15
S/M 16 x 1.5-MS	<b>4187.2</b>	100	2,8	19
S/M 20 x 1.5-MS	<b>4188.2</b>	100	3	24
S/M 25 x 1.5-MS	<b>4189.2</b>	100	3,5	30
S/M 32 x 1.5-MS	<b>4190.2</b>	100	4	36
S/M 40 x 1.5-MS	<b>4191.2</b>	50	5	46
S/M 50 x 1.5-MS	<b>4192.2</b>	50	5	60
S/M 63 x 1.5-MS	<b>4193.2</b>	50	6	70

### EMC earth insert, per DIN 89345 – brass / metric threading



Material: Chrome-plate brass  
For use in KV/M brass cable glands

### EMC counter nuts with teeth – brass / metric threading



Material: Nickel-plated brass

Type	Cat. no.	Qty.	For cable ø mm	For cable gland
VEE-MS 12-05	<b>17720.2</b>	1	5	KV/M 12 x 1.5-MS
VEE-MS 16-07	<b>17721.2</b>	1	7,5	KV/M 16 x 1.5-MS
VEE-MS 18-09	<b>17722.2</b>	1	9,5	KV/M 20 x 1.5-MS
VEE-MS 24-16	<b>17723.2</b>	1	16	KV/M 25 x 1.5-MS
VEE-MS 36-20	<b>17724.2</b>	1	20	KV/M 32 x 1.5-MS
VEE-MS 36-26	<b>17725.2</b>	1	26	KV/M 40 x 1.5-MS
VEE-MS 45-33	<b>17726.2</b>	1	33	KV/M 50 x 1.5-MS
VEE-MS 56-45	<b>17727.2</b>	1	45	KV/M 63 x 1.5-MS

Type	Cat. no.	Qty.	TL, mm	Spanner width AF, mm
S/M 12-MS/EMV	<b>17728.2</b>	100	4,7	15
S/M 16-MS/EMV	<b>17729.2</b>	100	4,7	19
S/M 20-MS/EMV	<b>17730.2</b>	100	4,7	24
S/M 25-MS/EMV	<b>17731.2</b>	100	5,2	30
S/M 32-MS/EMV	<b>17732.2</b>	100	5,7	36
S/M 40-MS/EMV	<b>17733.2</b>	50	6,5	46
S/M 50-MS/EMV	<b>17734.2</b>	50	7	60
S/M 63-MS/EMV	<b>17735.2</b>	25	7	70

### Reducing seal insert for metric cable glands



Material: Thermo-plastic elastomer, protection: IP 68  
colour: black, temperature range: -40°C to +100°C  
Fits with all metric-sized plastic and brass cable glands.

Type	Cat. no.	Qty.	For cable ø mm	For cable gland
VRDE 12	<b>17639.4</b>	50	1...3	M12
VRDE 16	<b>17640.4</b>	50	2...6	M16
VRDE 20	<b>17641.4</b>	50	4...8	M20
VRDE 25	<b>17642.4</b>	25	7...12	M25
VRDE 32	<b>17643.4</b>	25	9...14	M32
VRDE 40	<b>17644.4</b>	10	12...20	M40
VRDE 50	<b>17645.4</b>	10	16...25	M50
VRDE 63	<b>17646.4</b>	10	28...38	M63

## Metric cable gland systems

### Metric cable gland system

#### Multiple seal insert for metric cable glands



Material: Thermo-plastic elastomer, protection: IP 66,  
 colour: black, temperature range: -40°C to +100°C  
 Fits with all metric-sized plastic and brass cable glands.

Type	Cat. no.	Qty.	For cable ø mm	Number of cables	For cable gland	Type	Cat. no.	Qty.	For cable ø mm	Number of cables	For cable gland
VMD 12/04/020	<b>17647.4</b>	25	0...2	4	M12	VMD 25/03/070	<b>17656.4</b>	25	5...7	3	M25
VMD 16/02/040	<b>17648.4</b>	25	2...4	2	M16	VMD 25/04/060	<b>17657.4</b>	25	4...6	4	M25
VMD 20/02/060	<b>17649.4</b>	25	4...6	2	M20	VMD 32/04/070	<b>17658.4</b>	25	5...7	4	M32
VMD 20/02/065	<b>17650.4</b>	25	5...6.5	2	M20	VMD 32/04/080	<b>17659.4</b>	25	6...8	4	M32
VMD 20/03/040	<b>17651.4</b>	25	2.5...4	3	M20	VMD 32/06/060	<b>17660.4</b>	25	5...6	6	M32
VMD 25/01/065	<b>17652.4</b>	25	4...6.5	1	M25	VMD 40/07/070	<b>17661.4</b>	25	5...7	7	M40
VMD 25/02/060	<b>17653.4</b>	25	4...6	2	M25	VMD 40/07/080	<b>17662.4</b>	25	6...8	7	M40
VMD 25/02/070	<b>17654.4</b>	25	5...7	2	M25	VMD 40/08/060	<b>17663.4</b>	25	5...6	8	M40
VMD 25/02/080	<b>17655.4</b>	25	6...8	2	M25	VMD 50/09/080	<b>17664.4</b>	25	6...8	9	M50

#### Dummy plug



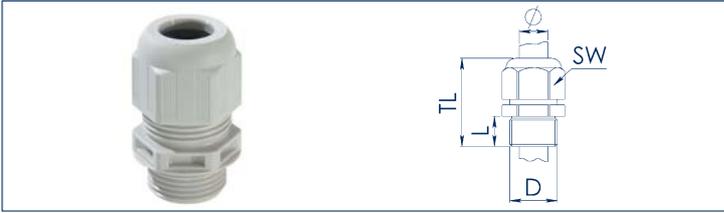
Material: polyamide, colour: red,  
 Temperature range: -40°C to +100°C  
 For sealing off unused cable and wire feed-ins with multiple seal inserts

Type	Cat. no.	Qty.	Diameter mm	Length, mm
VBS 2 RD	<b>17665.9</b>	50	2	12
VBS 3 RD	<b>17666.9</b>	50	3	12
VBS 4 RD	<b>17667.9</b>	50	4	12
VBS 5 RD	<b>17668.9</b>	50	5	12
VBS 6 RD	<b>17669.9</b>	50	6	16
VBS 7 RD	<b>17670.9</b>	50	7	16
VBS 8 RD	<b>17671.9</b>	50	8	16
VBS 9 RD	<b>17672.9</b>	50	9	16
VBS 10 RD	<b>17673.9</b>	50	10	16
VBS 12 RD	<b>17674.9</b>	50	12	22
VBS 13 RD	<b>17675.9</b>	50	13	22
VBS 14 RD	<b>17676.9</b>	50	14	22
VBS 17 RD	<b>17677.9</b>	25	17	17
VBS 20 RD	<b>17678.9</b>	25	20	22
VBS 21 RD	<b>17679.9</b>	25	21	30
VBS 25 RD	<b>17680.9</b>	25	25	30
VBS 28 RD	<b>17681.9</b>	25	28	30
VBS 35 RD	<b>17682.9</b>	10	35	35
VBS 38 RD	<b>17683.9</b>	10	38	35
VBS 48 RD	<b>17684.9</b>	10	48	35
VBS 63 RD	<b>17685.9</b>	5	63	35

# PG cable gland systems

## PG cable gland system

### Plastic cable glands / PG threading



Material: polyamide UL94-V0, protection: IP 68-5-bar,  
 colour: RAL 7035 bright grey, colour variant: (.4)RAL 9005 black,  
 Seal: EPDM, temperature range: -20°C to +80°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/PG 7	<b>4515.2</b>	100	3...6	9	15	28-32
KV/PG 9	<b>4516.2</b>	100	4...8	9	19	32-36
KV/PG 11	<b>4517.2</b>	100	5...10	9	22	33-39
KV/PG 13.5	<b>4518.2</b>	100	6...12	10	24	35-41
KV/PG 16	<b>4519.2</b>	50	8...14	11	27	38-44
KV/PG 21	<b>4520.2</b>	50	10...18	11	33	43-50
KV/PG 29	<b>4521.2</b>	25	16...25	12	42	47-56
KV/PG 36	<b>4522.2</b>	10	22...32	14	53	56-65
KV/PG 42	<b>4523.2</b>	5	28...38	14	60	58-67
KV/PG 48	<b>4524.2</b>	5	36...44	15	65	60-68

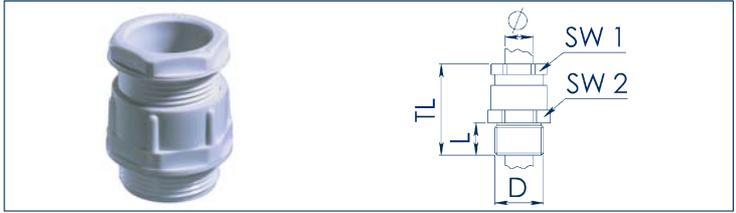
### Plastic screw plugs / PG threading



Material: impact-resistant polystyrene, protection: IP56  
 Colour: RAL 7035 bright grey,  
 Temperature range: -20°C to +60°C

Type	Cat. no.	Qty.	Head ø mm	Thread length L, mm	TL, mm
V/PG 7	<b>4515.6</b>	100	15	6	8
V/PG 9	<b>4516.6</b>	100	19	6	9
V/PG 11	<b>4517.6</b>	100	22	6	9
V/PG 13.5	<b>4518.6</b>	100	25	6	9.5
V/PG 16	<b>4519.6</b>	100	27	6	9.5
V/PG 21	<b>4520.6</b>	100	33	8	11
V/PG 29	<b>4521.6</b>	100	44	8	12
V/PG 36	<b>4522.6</b>	50	55	10	15
V/PG 42	<b>4523.6</b>	50	62	10	16
V/PG 48	<b>4524.6</b>	50	69	12	16

### Plastic cable glands / PG threading



Material: glass-fibre reinforced polyamide, protection: IP 54  
 colour: RAL 7035 bright grey, plastic pressure ring  
 Temperature range: -20°C to +80°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KVC/PG 7	<b>4525.2</b>	50	3.5...6	8	15	28
KVC/PG 9	<b>4526.2</b>	50	4.5...7	8	19	30
KVC/PG 11	<b>4527.2</b>	50	6...9	8	22	31
KVC/PG 13.5	<b>4528.2</b>	50	9...12	9	24	35
KVC/PG 16	<b>4529.2</b>	50	11...14	10	27	38
KVC/PG 21	<b>4530.2</b>	50	14...18	11	33	43
KVC/PG 29	<b>4531.2</b>	25	18...25	11	42	44
KVC/PG 36	<b>4532.2</b>	10	25...32	13	53	54
KVC/PG 42	<b>4533.2</b>	10	30...38	13	60	57
KVC/PG 48	<b>4534.2</b>	10	38...44	15	65	60

### Plastic counter nuts / PG threading



Material: glass-fibre reinforced polyamide, colour: RAL 7035 bright grey,  
 Temperature range: -40°C to +100°C  
 Colour variant: RAL9005 black

Type	Cat. no.	Qty.	TL, mm	Spanner width AF, mm
S/PG 7	<b>4515.8</b>	100	5	19
S/PG 9	<b>4516.8</b>	100	5	22
S/PG 11	<b>4517.8</b>	100	5	24
S/PG 13.5	<b>4518.8</b>	100	6	27
S/PG 16	<b>4519.8</b>	100	6	30
S/PG 21	<b>4520.8</b>	100	7	3
S/PG 29	<b>4521.8</b>	100	7	46
S/PG 36	<b>4522.8</b>	50	8	60
S/PG 42	<b>4523.8</b>	50	8	73
S/PG 48	<b>4524.8</b>	50	8	78

PG cable gland systems

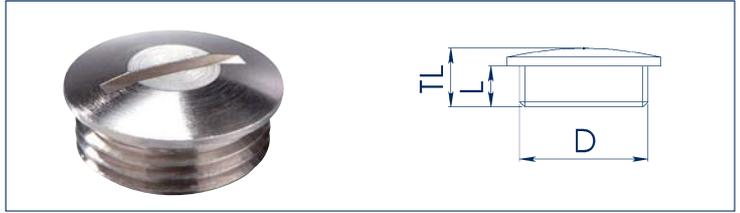
PG cable gland system

Brass cable glands / PG threading



Material: Nickel-plated brass, protection: IP 68-5-bar,  
Seal: EPDM, temperature range: -25°C to +80°C

Brass screw plugs / PG threading

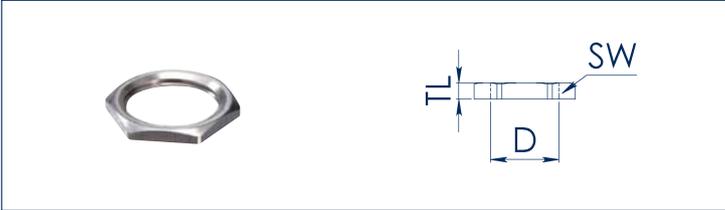


Material: Nickel-plated brass, protection: IP 54,

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/PG 7-MS	4535.2	1001	3...6.5	6	14	23
KV/PG 9-MS	4536.2	0050	4...8	6	17	29
KV/PG 11-MS	4537.2	50	5...10	6.5	20	30
KV/PG 13.5-MS	4538.2	50	6...12	6.5	22	32
KV/PG 16-MS	4539.2	50	10...14	6	24	32
KV/PG 21-MS	4540.2	25	13...18	7	30	35
KV/PG 29-MS	4541.2	10	18...25	8	40	40
KV/PG 36-MS	4542.2	5	22...32	9	50	45
KV/PG 42-MS	4543.2	5	30...38	12	57	48
KV/PG 48MS	4544.2		34...44	14	64	50

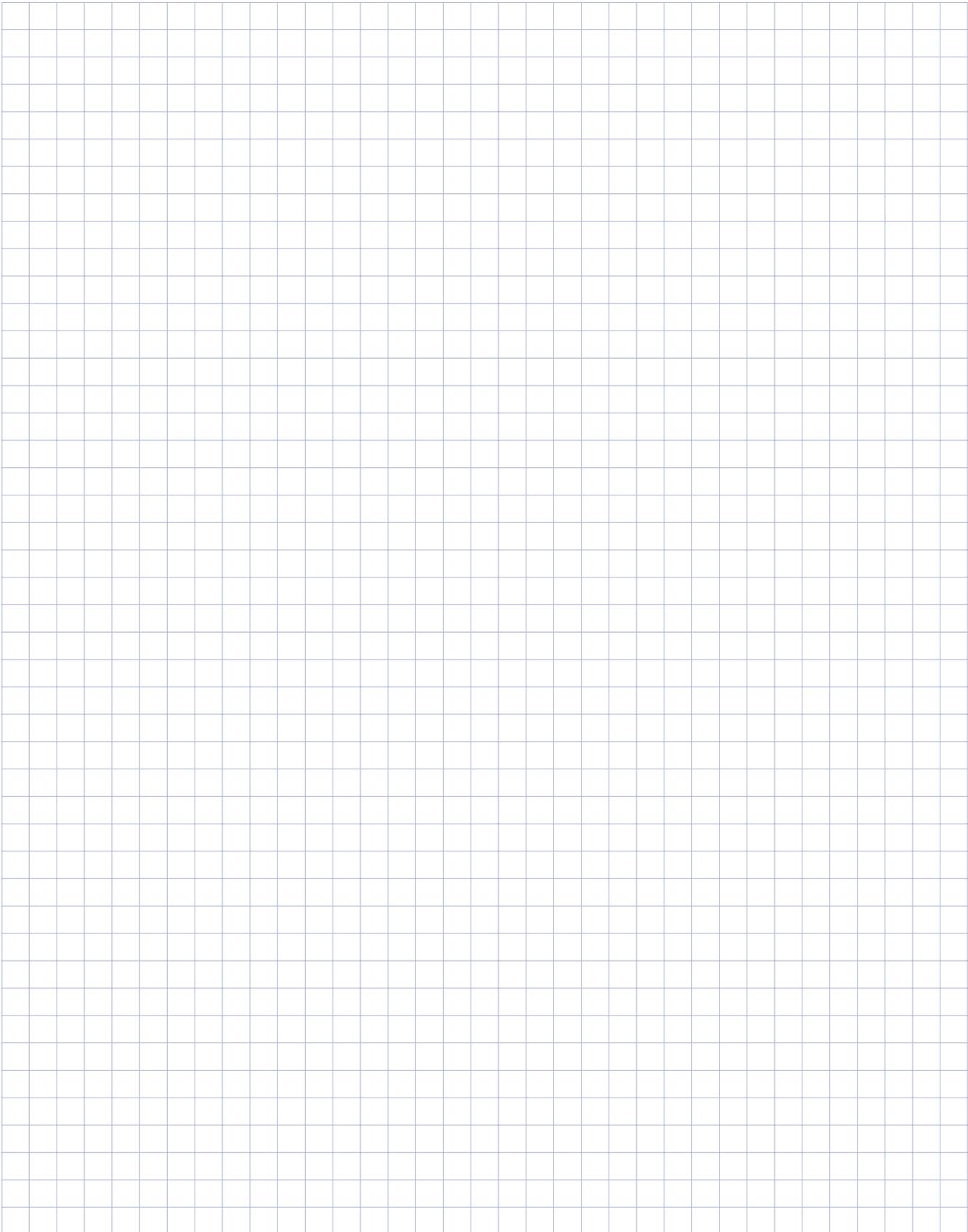
Type	Cat. no.	Qty.	Head ø mm	Thread length L, mm	TL, mm
V/PG 7-MS	4535.6	1001	14	5	8
V/PG 9-MS	4536.6	0010	17	6	9
V/PG 11-MS	4537.6	0	20	6	9
V/PG 13.5-MS	4538.6	100	22	6.5	9.5
V/PG 16-MS	4539.6	100	24	6.5	9.5
V/PG 21-MS	4540.6	100	30	7	11
V/PG 29-MS	4541.6	50	39	8	12
V/PG 36-MS	4542.6	25	50	9	15
V/PG 42-MS	4543.6	25	57	10	16
V/PG 48MS	4544.6	10	64	10	16

Brass counter nuts / PG threading



Material: Nickel-plated brass

Type	Cat. no.	Qty.	TL, mm	Spanner width AF, mm
S/PG 7-MS	4535.8	1001	2.8	15
S/PG 9-MS	4536.8	0010	2.8	18
S/PG 11-MS	4537.8	0	3	21
S/PG 13.5-MS	4538.8	100	3	23
S/PG 16-MS	4539.8	100	3	26
S/PG 21-MS	4540.8	100	3.5	32
S/PG 29-MS	4541.8	100	4	41
S/PG 36-MS	4542.8	50	5	51
S/PG 42-MS	4543.8	50	5	60
S/PG 48MS	4544.8	50	5.5	64



## CONTA-CLIP Service

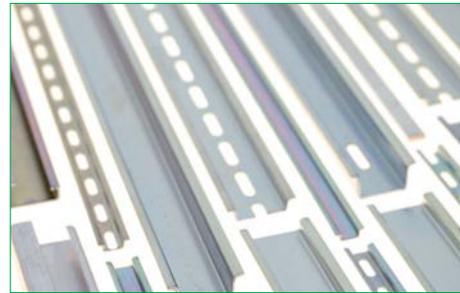
### CONTA-CLIP the Service Provider

**CONTA-CLIP** is able to meet the requirements and challenges of our customers by offering a range of custom solutions, including housing preparation, DIN rail terminal assembly, cable and terminal marking and final assembly.

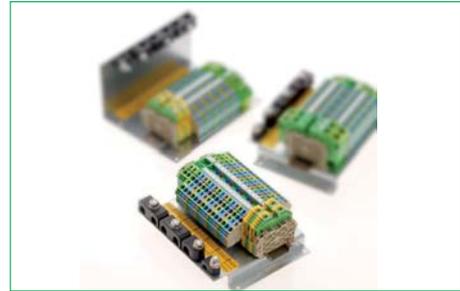
**CONTA-CLIP** can prepare DIN rails and housings according to your specifications and fit these with cable glands or customer-specific products as needed. We can also preassemble terminals on the DIN rail with marking and labelling according to your requirements. And we can assume responsibility for parts storage. Thus you only need one part number to specify a complex pre-assembled unit! We can then take responsibility for the storage of individual components and for the component list.

For years our customers and sales representatives around the world have taken advantage of this service. We would be glad to prepare an offer for your individual solution.

DIN rails can be cut to length, drilled with holes or fitted with press-in bolts according to the diagrams and specifications of the customer. **CONTA-CLIP** offers a solution for practically any application based on our ability to deliver a wide variety of profile sections and materials.



**CONTA-CLIP** can pre-assemble terminals with labelling and populated with customer components or connected with wire and cable harnesses – all according to customer requirements, CAD files, diagrams and prototypes.



Housings can be processed to fit the needs of our customers (with break-throughs and drilled holes). They can also be populated with terminal strip assemblies, cable glands and cable sets. Our large line of housings are available in many sizes and materials. They can be used as the ideal solution in a wide variety of applications.



**CONTA-CLIP** also offers a customized printing service to supplement our range of standard labelling products. Customized printing can involve a considerable amount of manual work. **CONTA-CLIP** would be pleased to take on this printing work – our high-quality printing services will help to reduce your workload. **CONTA-CLIP** can consolidate your specifications in a data list for a one-time or repeated project, which is then assigned a project number so that it can be ordered on short notice.



**CONTA-CLIP** is always at your service to fulfil your custom marking needs! You can e-mail us your requirements (as a file attachment) to [customizedmarkers@conta-clip.de](mailto:customizedmarkers@conta-clip.de).

# CONTA-CONNECT operating instructions

**CONTA CLIP** TYP RK STANDARD  
TYPE RK STANDARD

Bedienungsanleitung für das Schraub-Anschluss-System | Operating Instructions for Screw Connection System

**Anwendung | Handling**  
Anschluss von Massivleitern und flexiblen Leitern mit/ohne Aderdrehhülsen | Connecting solid wires or stranded wires with/without wire-end ferrules



**Anzugsdrehmomente für Klemmschrauben | Tightening torque of terminal screws**

Größe / Size	Stahlblech mit Schlitze / Steel sheet with slots	Mit Sechskant   With hexagonal head	
M 2,5	0,4...0,8	M 4	1,2...2,4
M 3	0,5...1,0	M 6	1...6
M 3,5	0,8...1,6		
M 4	1,2...2,0		
M 5	2,0...4,0		
M 6	2,5...3,0		

Best. Nr. 95109.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE RK STANDARD**  
Cat. no. 95109.0

**CONTA CLIP** TYP RK 50...240  
TYPE RK 50...240

Bedienungsanleitung für das Schraub-Anschluss-System | Operating Instructions for Screw Connection System

**Anwendung | Handling**  
Anschluss von Massivleitern und flexiblen Leitern mit/ohne Aderdrehhülsen | Connecting solid wires or stranded wires with/without wire-end ferrules



**Anschlussvermögen und Anzugsdrehmomente für Klemmschrauben | Connection data and tightening torque of terminal screws**

Reihenklemme Type	1 Leitung / 1 conductor	2 Leitungen / 2 conductors	Reihenklemme / Reihenklemme	Reihenklemme / Reihenklemme	Größe / Size	Anzugsdrehmoment / Tightening torque
RK 50	25-30/15-30	30-36/15-36	11,8x5	M 6	3,4	
RK 95	25-35/25-95	36-35/16-33	16x8	M 8	6,12	
RK 150	33-150/15-150	25-30/25-30	20x8	M 10	10,20	
RK 240	50-240/30-240	15-95/15-95	20x12	M 10	10,20	

Best. Nr. 95103.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE RK 50...240**  
Cat. no. 95103.0

**CONTA CLIP** TYP SIK | STK | STKD | SK  
TYPE SIK | STK | STKD | SK

Bedienungsanleitung Schraub-Anschluss-System | Operating Instructions for Screw Connection System

**Anwendung | Handling**  
Anwendung von Massivleitern und flexiblen Leitern mit/ohne Aderdrehhülsen | Terminating solid wires or stranded wires with/without wire-end ferrules



**Anzugsdrehmomente für Klemmschrauben | Tightening torque of terminal screws**

Größe / Size	Stahlblech mit Schlitze / Steel sheet with slots
M 2,5	0,4...0,8
M 3	0,5...1,0
M 3,5	0,8...1,6
M 4	1,2...2,0

Best. Nr. 95100.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE SIK | STK | STKD | SK**  
Cat. no. 95100.0

**CONTA CLIP** TYP FRK STANDARD  
TYPE FRK STANDARD

Bedienungsanleitung für das Druckfeder-Anschluss-System | Operating Instructions for Pressure-Spring Connection System

**Anwendung | Handling**  
Anschluss von Massivleitern und flexiblen Leitern mit Aderdrehhülsen | Connecting solid wires or stranded wires with wire-end ferrules



**Anschluss von flexiblen Leitern ohne Aderdrehhülsen/Dekontaktieren von Leitern | Connecting stranded wires without wire-end ferrules/Disconnecting wires**



**Bedienungswerkzeug | Operating tool**

Reihenklemme / Terminal block	Schraubendreher SDB / Screwdriver SDB	Best.-Nr. / Cat. No.
FRK   FS 3,5...	508 0,4+2,0	3164.0
FRK   FS 2,5...	508 0,4+2,5	3169.0
FRK   FS 4...	508 0,5+3,0	3063.0

Best. Nr. 95105.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE FRK STANDARD**  
Cat. no. 95105.0

**CONTA CLIP** TYP ZRK STANDARD  
TYPE ZRK STANDARD

Bedienungsanleitung für das Zugfeder-Anschluss-System | Operating Instructions for Tension-Spring Connection System

**Anwendung | Handling**  
Anschluss von Massivleitern und flexiblen Leitern mit/ohne Aderdrehhülsen/Dekontaktieren von Leitern | Connecting solid wires or stranded wires with/without wire-end ferrules/Disconnecting wires



**Einsatz von Zugfeder-Reduzierhülsen ZRH | Using of Tension-Spring-reducer sleeves ZRH**

Reihenklemme / Conductor cross section / Terminal block	Leitungsquerschnitt / Wire cross section	Typ Reduzierhülse / Type Reducer sleeve	Best.-Nr. / Cat. No.
2,5 mm²	0,19-0,2 mm²	ZRH 2,5/0,19-0,2	3760.0
2,5 mm²	0,23-0,3 mm²	ZRH 2,5/0,23-0,3	3731.6
2,5 mm²	0,75-1,0 mm²	ZRH 2,5/0,75-1,0	3752.4
4,0 mm²	0,19-0,2 mm²	ZRH 4,0/0,19-0,2	3731.2
4,0 mm²	0,23-0,3 mm²	ZRH 4,0/0,23-0,3	3734.4
4,0 mm²	0,75-1,0 mm²	ZRH 4,0/0,75-1,0	3753.4

Best. Nr. 95101.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE ZRK Standard**  
Cat. no. 95101.0

**CONTA CLIP** TYP ZRKD | ZIKD | ZVMAK  
TYPE ZRKD | ZIKD | ZVMAK

Bedienungsanleitung für das Zugfeder-Anschluss-System | Operating Instructions for Tension-Spring Connection System

**Anwendung | Handling**  
Anschluss von Massivleitern und flexiblen Leitern mit/ohne Aderdrehhülsen/Dekontaktieren von Leitern | Connecting solid wires or stranded wires with/without wire-end ferrules/Disconnecting wires



**Einsatz von Zugfeder-Reduzierhülsen ZRH | Using of Tension-Spring-reducer sleeves ZRH**

Reihenklemme / Conductor cross section / Terminal block	Leitungsquerschnitt / Wire cross section	Typ Reduzierhülse / Type Reducer sleeve	Best.-Nr. / Cat. No.
2,5 mm²	0,19-0,2 mm²	ZRH 2,5/0,19-0,2	3760.0
2,5 mm²	0,23-0,3 mm²	ZRH 2,5/0,23-0,3	3731.6
2,5 mm²	0,75-1,0 mm²	ZRH 2,5/0,75-1,0	3752.4

Best. Nr. 95102.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE ZRKD | ZIKD | ZVMAK**  
Cat. no. 95102.0

**CONTA CLIP** TYP HSK 16/MS...120/M12  
TYPE HSK 16/MS...120/M12

Bedienungsanleitung Schraub-Anschluss-System | Operating Instructions for Screw Connection System

**Anwendung | Handling**  
Anwendung von Massivleitern und flexiblen Leitern | Terminating solid wires or stranded wires

**Ein-Boleaklemme B:** Kabelschuhe zwischen den Unterlegscheiben auf den Bolzen aufliegen. **Zwei-Boleaklemme B:** Kabelschuhe zwischen Stromschiene und Sicherungsschleife auf dem Bolzen aufliegen. **Zwei-Kabelschuhe pro Bolzen:** die Rückseiten der Kabelschuhe gegeneinander liegen. **Anzeichen der Blöhmutter:** kontinuierliches Kabelschuh zu Kabelschuh oder Kabelschuh zu Stromschiene.

**Anschlussvermögen und Anzugsdrehmomente für Klemmschrauben | Connection data and tightening torque of terminal screws**

Reihenklemme Type	Klemmkategorie / Cable category	1 Leiter / 1 conductor	2 Leiter / 2 conductors	Reihenklemme / Reihenklemme	Größe / Size	Anzugsdrehmoment / Tightening torque
HSK 16M16 B	0,33-16	0,33-16	0,33-16	M 6	3,4	
HSK 16M16 B	2,5-13	2,5-13	2,5-13	M 8	6,12	
HSK 16M16 B	2,5-30	2,5-30	2,5-30	M 10	10,20	
HSK 16M16 B	4-20	4-20	4-20	M 10	10,20	
HSK 16M16 B	4-30	4-30	4-30	M 12	14,10	
HSK 16M16 B	2,5-13	2,5-13	2,5-13	M 8	6,12	
HSK 16M16 B	2,5-30	2,5-30	2,5-30	M 10	10,20	
HSK 16M16 B	4-20	4-20	4-20	M 10	10,20	
HSK 16M16 B	4-30	4-30	4-30	M 12	14,10	

Best. Nr. 95112.0 Weitere Informationen | Further information [www.conta-clip.com](http://www.conta-clip.com)

**TYPE HSK 16/MS...120/M12**  
Cat. no. 95112.0

Additional operating instructions can be found on the internet at [www.conta-clip.com](http://www.conta-clip.com).

## CONTA-CONNECT Technical Appendix

### Materials

All products from **CONTA-CLIP** are manufactured from standardized raw materials which are already well established in the electro-technical industry. All of our materials are subject to strict quality control testing.

### Insulation materials

The insulation housings of **CONTA-CONNECT** products are made from high-quality PA 6.6 polyamides. Such materials have a flammability classification of UL 94-V2 or UL 94-V0. This modern insulation predominates in terminal products and has been approved by all of the relevant regulatory bodies, including CSA, UL, PTB, SEV, VDE, DEMKO and NEMKO. It has a creepage-current resistance level of CTI 600, in accordance with IEC 112/DIN 0303/part 1.

It also has excellent resistance to micro-organisms, bacteria and termites. Polyamide is also resistant to ultra-violet light and ageing.

Polyamide 6.6 absorbs moisture from its surroundings (about 2.8% on average). This helps the plastic to stay elastic and non-brittle, even at temperatures down to -40°C. It has a semi-crystalline molecular structure and is stabilized by thermal ageing. This ensures that it maintains its excellent electrical, mechanical and chemical specifications even at temperatures up to 120°C. The peak temperature allowed for short-term use is about 180°C. The melting point of the material is at 250°C.

Polyamide 6.6 is flame resistant and self-extinguishing in compliance with VDE and ASTM.

None of the insulating materials and colouring pigments used by **CONTA-CLIP** contain asbestos, phosphor, cadmium or halogens.

Refer to the table below for additional electrical and technical specifications.

### Features

#### Polyamide (PA)

- Flexible, resistant to breakage
- Excellent electrical and mechanical characteristics
- High temperature allowed for long-term use
- Good resistance to fire
- Halogen-free and phosphor-free flame-retardant material
- No dioxin or furan formation

#### Glass-fibre reinforced polyamide (PA GF)

- Excellent dimensional stability
- Excellent electrical and mechanical characteristics
- Higher long-term-use temperature
- Good resistance to fire
- Halogen-free and phosphor-free flame-retardant material
- No dioxin or furan formation

Characteristics (at +20°C)	Unit / level	Thermoplastic polyamide 6.6/ UL 94/V2	Thermoplastic polyamide 6.6/ UL 94/V0	Thermoplastic polyamide 6.6/ UL 94/V0/GF	Thermoplastic PBT
Dielectric strength	KV/mm	30	30	35	28
TI mech.	°C	120	120	140	
Temp. index, electrical	°C	105	120	140	
continuous	°C	105	120	140	130
short-term	°C	120	120	180	130
Temperature resistance	°C	-40°C to +105°C	-40°C to +120°C	-40°C to +140°C	-50°C to +130°C
Creepage resistance (IEC 112/DIN VDE 0303 part 1)		CTI>600	CTI>600	CTI>600	CTI 200
Flammability	level	V2	V0	V0	V0
Suitability for tropical climates	-	good	good	good	good
Termite-proof	-	good	good	good	good
Spec. contact resistance	Ohm x cm	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>13</sup>
Spec. surface resistance	Ohm x cm	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	

### Numbers

The numbers in the cat. no. refer to:

- ① Polyamide 6.6 green
- ② Polyamide 6.6 beige
- ③ Polyamide 6.6 orange
- ④ Polyamide 6.6 black
- ⑤ Polyamide 6.6 blue
- ⑥ Polyamide 6.6 grey
- ⑦ Polyamide 6.6 white
- ⑧ Polyamide 6.6 yellow
- ⑨ Polyamide 6.6 red
- ⑩ Other materials

### CONTA-CLIP colour code in the product name

- BK=Black
- GR=Grey
- LG=Light grey
- DG=Dark grey
- YE=Yellow
- GN=Green
- BU=Blue
- LB=Light blue
- OG=Orange
- BG=Beige
- WH=White
- BN=Brown
- LB=Light Brown
- DB=Dark brown
- VT=Violet
- RD=Red
- GNYE=Green/yellow
- YEGN=Yellow/green

- CY=Cyan
- IV=Ivory
- OL=Olive
- PI=Pink
- RB=Red brown
- SI=Silver
- GO=Gold

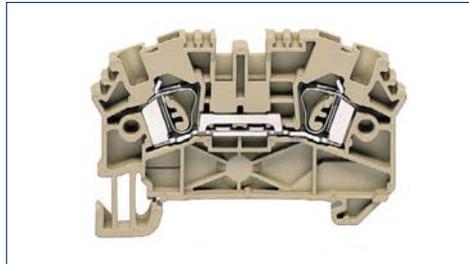
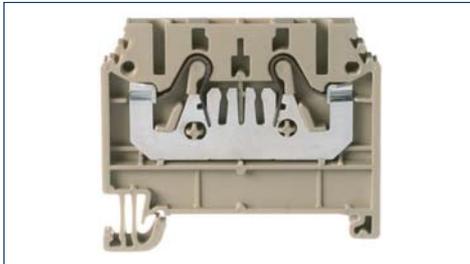
## CONTA-CONNECT Technical Appendix

### Metals

All metal parts used in **CONTA-CLIP** products are selected using state-of-the-art technology. During the production process, they are closely monitored by the **CONTA-CLIP** quality management system. The metal parts in **CONTA-CLIP** products are galvanized using the most modern techniques available. They feature state-of-the-

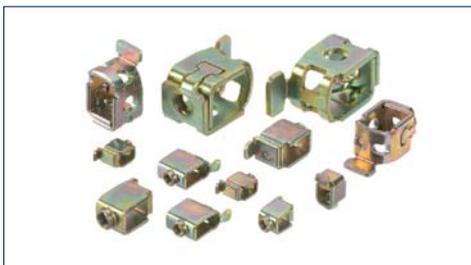
art surface protection. The steel parts are galvanized as standard practice. An additional passivation with a blue chromate layer is then applied to the zinc coating. Copper and brass parts are normally coated with a tin layer. This tin coating provides consistent, good electrical characteristics and also an excellent protection against corrosion. Solder lugs and solder pins are also coated with a tin layer. An additional layer of nickel is

present under the tin layer in order to ensure that the soldering characteristics do not deteriorate over longer periods. The springs in the tension-spring and pressure-spring mechanisms are made from high-quality, rust-proof, acid-resistant steel. This provides them with excellent resistance to their environmental surroundings.



CONTA-CONNECT Technical Appendix

**Screw connection**



**The clamping yoke design**

The clamping yoke transmits pressure from the screw to clamp the conductor against the busbar. The required contact force is generated by the torque applied to the screw. This system provides a gas-tight connection between the conductor and the internal busbar. This creates increasing thread friction and results automatically in a stronger mechanical grip on the conductor. The increased torque is generated by an elastic distortion of the terminal body. Because of its construction, the clamping yoke is able to provide the strongest contact force and thus the lowest voltage drop. The clamping yoke and the connecting screw are made from carbonized steel that is galvanized and chrome-plated.

**Securing the terminal screws**

All metal parts, including the terminal screws made from hardened steel, are held captive in the insulation housing. An added level of security is provided because the screw head is held back within the insulation housing. When turning the screw counter-clockwise, the screw reaches an "idle" position without an end stop, so that it is not possible to overturn and deform the insulation housing. This is particularly important if you are using power screwdrivers or compressed-air screwdrivers. When you subsequently turn the screw clockwise, the entire thread of the clamping yoke engages before any clamping pressure is exerted.

**Pressure-spring connection**



**The Pressure-spring design**

The pressure-spring design from **CONTA-CLIP** makes wiring convenient and ensures the maximum level of contact security! This connection mechanism unites the advantages of the **CONTA-CLIP** tension-clamp connection system with the possibility to connect individual wire using no tools! Solid and stranded wires with wire-end ferrules can simply be inserted directly into the terminal point.

The contact between the wire and the busbar is automatically established during this insertion. A standard screwdriver can be used to open the clamp for release or for the insertion of stranded wire without ferrules.

**Torque exerted by the terminal screws**

IEC 60947-7-1 (DIN VDE 0611 part 1) "Low-voltage switching devices, part 7: auxiliary devices, main section 1 – terminal blocks for copper wires", specifies mechanical and electrical testing procedures for analyzing connection mechanisms.

This directive specifies that copper wires should be connected with a specific amount of torque exerted by the terminal screws. The value of the torque depends on the size of the terminal screw, as specified in the following tables.

**Tension-spring connection**



**The tension-spring design**

The tension spring functions in a manner similar to the clamping yoke. It also separates the mechanical and electrical functions. The tension spring consists of high-quality, rust-proof, acid-resistant steel. This spring presses the wire against the busbar. The tension spring is a connection element which can be used quickly and for many purposes, and which distinguishes itself by being maintenance-free and shock-proof. High resistance to vibration is guaranteed by the unique design of the tension spring.

**Products with slotted-head screws**

Thread	Torque range	
	Steel screws	A 2/A 4-8
M	Min. 8.8	Nm
M 2,5	0.4...0.8	0.4...0.8
M 3	0.5...1.0	0.5...1.0
M 3,5	0.8...1.6	0.8...1.6
M 4	1.2...2.4	...
M 5	2.0...4.0	...
M 6	2.5...5.0	...

**Products with hex-head screws**

Thread	Steel screws
M	Nm
M 4	1.2...2.4
M 5	2.0...4.0
M 6	3.0...6.0
M 8	6.0...12
M 10	10.0...20
M 12	14...31
M 14	25.0...60

**Combi-foot /  
Screw connection system**

CONTA-CLIP terminal blocks with screw-connection systems are normally equipped with a combi-foot. This ensures that the terminal blocks can easily be snapped on to the TS35 x 7.5, TS35 x 15 rails (according to DIN EN 50 022) and the TS32 (according to DIN EN 50 035). When using a C-rail (TS32) and the device/top-hat rail (TS35), you can significantly reduce the number of required terminal block types in your inventory. The provides you with a cost-effective and efficient solution!

**TS35 foot /  
Screw connection system**

For the standard terminal block with cross-sections of 2.5 mm<sup>2</sup> to 35 mm<sup>2</sup>, an additional series is available that provides an alternative mechanical snap-on (foot design) compared to the combi-foot terminal blocks. The mechanical and electrical characteristics of both product series are the same!

**TS35 foot /  
Screw connection system**

The terminals block with tension-spring connections normally come with a TS35 foot. This foot is easy and safe to snap on to the rail. Because of the mechanical construction, it is also possible to attach to wiring systems.

**TS35 foot /  
Pressure-spring connection system**

The terminals block with tension-spring connections normally come with a TS35 foot. This foot is easy and safe to snap on to the rail. Because of the mechanical construction, it is also possible to attach to wiring systems.



CONTA-CONNECT Technical Appendix

**Protective-earth terminal blocks**



A protective-earth (PE) terminal block is a device with one or more clamping points used to connect round conductors (PE/PEN wires). The PE terminal contacts the metal DIN rail via the PE foot using either a screw attachment or by simply snapping on the terminal block to the rail (using an internal-spring PE foot).

**Application areas (EN 60 947-7-2)**

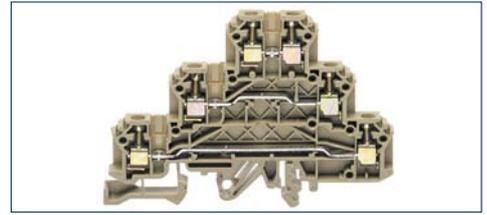
This is valid for PE terminal blocks in rated cross-sections up to 120 mm<sup>2</sup> (for PE functionality) and from 10 mm<sup>2</sup> (for PEN functionality). The terminal blocks come equipped with a screw connection or a screw-free connection mechanism for attaching solid, stranded or finely stranded copper wires. They can be used with circuits up to 1000 VAC (60 Hz) and up to 1500 VDC, predominantly in conjunction with feed-through terminals. The PE terminal is used to establish the mechanical and electrical connection between the PE wire and the metal DIN rail. When using the PEN functionality of the PE terminal blocks, you may only use a copper rail (according to EN 60 947-7-2). When using the

PE functionality of the PE terminal blocks with cross-sections of 16mm<sup>2</sup> or larger, you must use a TS 35x15 rail in order to maintain the current-carrying capacity.

**Nominal current with PEN (rated current)**

The thermal rated current is the load current that can be continually carried by the PE terminal block with PEN functionality. The term “rated current” is used to refer to nominal current in order to comply with the new VDE 0611 part 1/8.92.

**Multi-level terminal blocks**



A multi-level terminal block is a device that features at least two busbar levels. Four or more terminal points are available to connect round conductors. A variety of combination options are possible: L/PE, L/L, L/N, N/N, N/PE or L/N/PE, L/L/N, N/N/PE, etc.

**Application areas (EN 60 947-7-1, EN 50 847-7-2)**

This is valid for multi-level terminal blocks with screw or screwless connections for attaching single, stranded or finely stranded copper wires. There are options for connecting external, neutral and PE wires to a mounting plate (DIN rail). The separate levels are insulated from each other. They can also normally be cross-connected individually or across levels.

## Neutral feed-in disconnect terminal

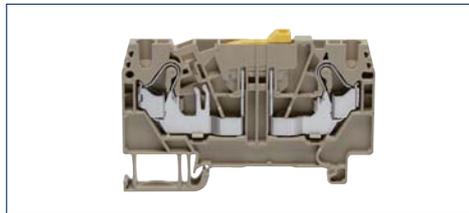


A neutral disconnect terminal is a device for connecting round wires that has one or more clamping points and a mechanism for separating the neutral connection. Neutral disconnect terminals are also available as multi-level terminal blocks.

### Application areas (EN 60 947-7-1) VDE 0611 part 5/draft 5.84

This is valid for neutral disconnect terminals with screw or screwless connections for attaching a neutral potential which can be disconnected with single, stranded or finely stranded copper wires. N-busbars (10x3 or 6x6) can be contacted by means of the disconnect element. The ability to disconnect allows you to take an insulation measurement without disconnecting the neutral wire.

## Rated-disconnect terminal blocks



### Rated-disconnect terminal blocks

A rated-disconnect terminal block is a device which provides screw or screwless connections to connect solid, stranded or finely stranded copper wires. It allows for a no-load separation. The rated voltage should be equal to the rated insulation voltage that is referenced by the insulation test and the creepage distances (according to EN 60 664-1). The construction of the opened isolating element is designed according to the requirements for the rated surge voltage.

## Fused terminal blocks



### Fused terminal blocks

A fused terminal block is a device used to hold fuses that are separated from the clamping points by means of a fuse-disconnect plug, a fuse-disconnect lever or a screw cap.

### Application areas (EN 60 947-7-3/EN 60 127-2)

This is valid for fuse-holder terminals which have screw or screwless connections for attaching single, stranded or finely stranded copper wire and a connection to the fine fuses which can be disconnected. It is simple to replace fuses by using the disconnect element. The fuse-holder terminals are rated for the corresponding max. power loss of the G-fuse inserts in compliance with EN 60 127-2.

## CONTA-CONNECT Technical Appendix

### Touch protection

The accident prevention regulations issued by the German Association of Fine Mechanics and Electronics (VGB 4) is relevant for the operators of electrical facilities. It specifies special safety regulations in order to reduce the risk of electrical accidents.

This regulation defines the safety clearances for operating and intermittent handling in the proximity of parts which are dangerous to touch (“active components” of low-voltage facilities up to 1000 or 1500 V).

Active (i.e., dangerous to touch) components may only be worked on after it has been established that there is no voltage on them. Working in the proximity of active components is only permitted when these components are voltage-free or when they are protected against direct touch (§ 6).

When working near active components, the following safety measures apply:

- Establish that the components will have no voltage applied to them for the duration of the work, or
- Provide touch protection by covering, or shielding during your work, or
- Ensure that the permitted clearance distance is strictly observed (§ 7).

The phrase “occasional handling” is used in reference to the handling of mechanisms such as push-buttons, toggles or dials that are in the proximity of components which are dangerous to touch.

According to DIN 57 105 – part 1/VDE 0105 – part 1, this refers to “operating with partial protection against direct touch”.

Detailed information concerning “occasional handling” can be found in the VDE regulation 0100/part 750. One of the factors defined here is the extent to which active components located in the proximity of operational elements must be covered to protect them from accidental touch. The definition of a “protective space for occa-

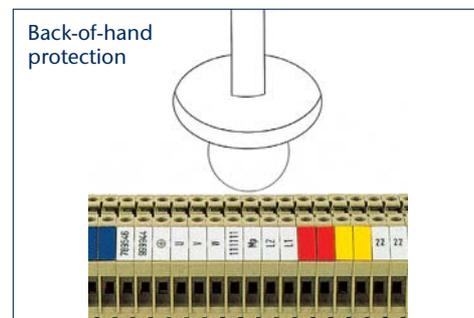
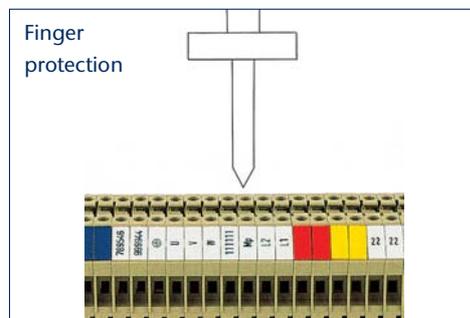
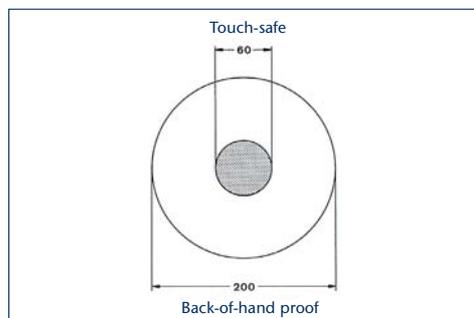
sional handling” is based on the area that must be reached into when handling the unit.

The key fact is that all active components in a circumference of 30 mm from the operational element must have touch-safe protection. Thus the parts of the electrical device that are dangerous to touch must not be accessible by the straight finger used in VDE tests (according to DIN 57 470 - part 1/VDE 0470 - part 1, IEC test finger).

Back-of-hand protection is required for the “extended range” up to 100 mm from the operational element.

Back-of-hand protection is present when a force of 50 N can be exerted on a ball of 50-mm diameter without touching any of the dangerous parts of the components. No special touch protection measures are required beyond this range.

Facilities and machinery that are run with protective low voltages up to 25 or 60 V are considered to be protected from “direct touch”.



### Working on electrical connection mechanisms with non-insulated screwdrivers

Non-insulated screwdrivers may only be used in electrical facilities after they have been switched off.

The following five safety rules must be followed in order to ensure that no voltage is present before starting work and that no voltage is switched on during the duration of the work:

- **Switch off facility**
- **Ensure it is not possible to switch back on**
- **Establish that no voltage is present**
- **Ground and short-circuit**
- **Cover or shield any neighbouring parts that are under live voltage**

These are the five safety rules for working on electrical facilities and equipment. The measures to be taken in regards to the local operational conditions (for example, any local high-voltage and low-voltage overhead lines, cabling or switching facilities) are specified in DIN VDE 0105 part 1.

### Unused, live-voltage terminal points

Those unused terminal points which may have voltage on them must be protected against accidental touch by means of suitable covers. The terminal screws of unused, non-live terminal points should also be tightened.

# CONTA-CONNECT Technical Appendix

## Protection category according to EN 60529/DIN 0470

First digit		Second digit – water protection									
		IP.0	IP.1	IP.2	IP.3	IP.4	IP.5	IP.6	IP.7	IP.8	
		No protection	Protection against water dripping vertically	Protection against dripping fluid with up to 15% tilt from vertical axis	Protection against splashed water with up to 60% tilt from vertical axis	Protection against splashed water from all directions	Protection against splashed water from all directions	Protection against temporary flooding (on deck of ship)	Protection against submersion in water	Protection against water under pressure	
Touch protection	Protection against foreign objects										
IP 0	No touch protection	Protection against large, solid foreign objects	IP 00								
IP 1	Protection against large-surface touching (with the hand)	No protection against large, solid foreign objects	IP 10	IP 11	IP 12						
IP 2	Protection against finger touching	Protection against mid-sized, solid foreign objects	IP 20	IP 21	IP 22	IP 23					
IP 3	Protection against touch by tools, wires or other objects more than 2.5 mm wide	Protection against small, solid foreign objects	IP 30	IP 31	IP 32	IP 33	IP 34				
IP 4	Protection against touch by tools, wires or other objects more than 1 mm wide	Protection against small, solid foreign objects	IP 40	IP 41	IP 42	IP 43	IP 44				
IP 5	Protection against touch by objects of any type	Protection against the build up of dust on the inside	IP 50					IP 54	IP 55		
IP 6	Protection against touch by objects of any type	Complete protection against dust	IP 60					IP 65	IP 66	IP 67	IP 68

## CONTA-CONNECT Technical Appendix

### Connection cross-section

The rated cross-section of the terminal blocks must be specified by the manufacturers according to EN 60947-7-1.

Normally it specifies the maximum cross-section of the wire that may be connected to the terminal. This is the value used for the electrical, mechanical and thermal tests specified in the standard. The manufacturer must also specify the rated connection capacity, the number of

wires that can be connected together, and any processing of the wire ends that is required before connecting (whereby the wires can be either solid, stranded or finely stranded.

**CONTA-CLIP** terminal blocks are designed so that copper wires can be simply connected without any special treatment. It is not necessary to use wire-end ferrules with **CONTA-CLIP** terminal blocks. If wire-end ferrules are used at the

end of stranded wires to protect them from splicing off, this will reduce the connection capacity for the stranded wires to the next lowest level.

### Layout and dimensions of connecting cables Excerpt from DIN VDE 0295.

Rated cross-section mm <sup>2</sup>	Solid Diameter		Stranded Diameter		finely-stranded Diameter Max. size	Wire count Guide-line value	American Wire Gauge (AWG) acc. to EN 60 204 part 1 Gauge No.						
	Max. size	Number of wires	Max. size	Wire count			AWG	Ø mm	Solid circ. mils	Stranded Ø mm	circ. mils	mm <sup>2</sup>	
0.5	0.9	1	1.1	7	1.1	16	20	0.81	1022	0.52	0.97	1111	0.56
0.75	1.0	1	1.2	7	1.3	24	18	1.02	1620	0.82	1.16	1600	0.82
1	1.2	1	1.4	7	1.5	32	(17)	1.15	2050	1.04	-	-	-
-	-	-	-	-	-	-	16	1.29	2580	1.31	1.50	2580	1.32
1.5	1.5	1	1.7	7	1.8	30	(15)	1.45	3260	1.65	-	-	-
-	-	-	-	-	-	-	14	1.63	4110	2.08	1.85	4100	2.09
2.5	1.9	1	2.2	7	2.6	50	(13)	1.83	5180	2.63	-	-	-
-	-	-	-	-	-	-	12	2.05	6530	3.31	2.41	6500	3.32
4	2.4	1	2.7	7	2.9	56	(11)	2.30	8230	4.17	-	-	-
-	-	-	-	-	-	-	10	2.59	10380	5.26	2.95	10530	5.37
6	2.9	1	3.3	7	3.9	84	(9)	2.91	13100	6.63	-	-	-
-	-	-	-	-	-	-	8	3.26	16510	8.37	3.73	16625	8.48
10	3.7	1	4.2	7	5.1	80	(7)	3.67	20800	10.56	4.15	20820	10.55
-	-	-	-	-	-	-	6	4.12	26240	13.30	4.67	26250	13.39
16	4.6	1	5.3	7	6.3	126	(5)	4.62	33100	16.77	5.24	33100	16.77
-	-	-	-	-	-	-	4	5.19	41740	21.15	5.90	41650	21.24
25	-	-	6.6	7	7.8	196	3	5.83	52600	26.67	6.61	52630	26.67
35	-	-	7.9	7	9.2	276	2	6.54	66360	33.62	7.42	66150	33.74
-	-	-	-	-	-	-	1	7.35	83690	42.41	8.33	83706	42.69
50	-	-	9.1	19	11.0	396	1/0	8.25	105600	53.51	9.35	104640	53.36
70	-	-	11.0	19	13.1	360	2/0	9.27	133100	67.44	10.52	132300	67.47
95	-	-	12.9	19	15.1	475	3/0	10.40	167800	85.03	11.79	172500	87.98
-	-	-	-	-	-	-	4/0	11.08	211600	107.22	13.26	210400	107.30
120	-	-	14.5	37	17.0	608	-	-	-	-	14.62	250000	127.00
150	-	-	16.2	37	19.0	756	-	-	-	-	16.00	300000	152.00
-	-	-	-	-	-	-	-	-	-	-	17.30	350000	177.00
185	-	-	18.0	37	21.0	925	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
240	-	-	20.6	61	24.0	1224	-	-	-	-	20.66	500000	253.00

### Connecting aluminium wires

Right after the stripping process, a thin, non-conductive oxide layer forms on the surface of aluminium wires. This layer must be removed in order to establish a conductive, gas-tight connection.

**CONTA-CLIP** terminal blocks allow you to connect aluminium wires to one or both sides. We

recommend preparing the wires in the following way in order to ensure the proper contact.

- Use a scraper to rid the wire end of the oxidized layer. Then immediately submerge it in Vaseline (a neutral, acid-free and alkaline-free substance) and quickly connect to the terminal block.
- Tighten the connection after a few days in order to ensure that it is still secure.

- Repeat this preparation process when you need to connect a new wire.

## Current capacity

The relevant European standard EN 60947-7-1 specifies the testing currents for the individual wire cross-sections listed in the table. The type testing is based on these current strengths. When tested under this load, the terminal must comply with the limit values defined by the standard (for example, the maximum temperature rise). The values for the current capacity of other terminal types can also be found in both of these standards. The actual current capacity of a circuit – and thus the terminal as well – is not established by these standards but by the relevant national contractor regulations. These regulations take into account the particular types of routing for the cables and wires.

Test current acc. to EN 60 947-7-1, Table V

Rated cross-section mm <sup>2</sup>	Test current A
0.2	4
0.34	5
0.5	6
0.75	9
1	13.5
1.5	17.5
2.5	24
4	32
6	41
10	57
16	76
25	101
35	125
50	150
70	192
95	232
120	269
150	309
185	353
240	415
300	520

## VDE 0110 b § 8 – Table 4 – Minimum creepage and clearance distances, mm

The specifications of DIN VDE 0110-1 (“Insulation coordination for electrical devices in low-voltage facilities”) are used to measure the clearance and creepage distances. DIN VDE 0110-1 is derived from a modified version of IEC 60664-1. The following correlations apply for the assessment of the creepage and clearance distances.

### Clearance distances

- Overvoltage expected (Rated surge voltage)
- Overvoltage protection in use
- Contamination degree

### Creepage distances

- Rated voltage
- Insulation group
- Contamination degree

Reference voltage AC voltage (effective value) (V)	DC voltage (V)	Insulation group A0		Insulation group A		Insulation group B		Insulation group C		Insulation group D				
		Clearance	Creepage	Clearance	Creepage	Clearance	Creepage	Clearance	Creepage	Clearance	Creepage			
12	12	0.06	1	0.15	0.2	0.4	0.6	0.8	0.8	1.2	1.7	1.6	2.3	3.2
30	36	0.1	0.15	0.2	0.25	0.5	0.8	1	1	1.5	2	1.8	2.6	3.5
60	75	0.15	0.2	0.25	0.35	0.7	1	1.3	1.2	1.7	2.3	2	3	4
125	150	0.25	0.35	0.4	0.5	1	1.3	2	1.6	2.2	3	2.5	3.5	5
250	300	0.5	0.7	0.8	1.0	1.6	2	3	2.5	3	4	3.6	5	7.5
380	450	0.8	1.1	1.2	1.5	2.4	3	4	3.5	4.5	6	5	7	10
500	600	1.1	1.5	1.6	2	3	4	5.5	4.5	6	8	6.5	9	13
660	800	1.5	2	2.2	2.8	4	5.5	7	6	8	10.5	8	12	17
750	900	1.8	2.2	2.5	3.2	4.5	6	8	6.5	9	12	9	13	19
1000	1200	2.5	3	3.5	4.5	6	8	11	9	12	16	12	17	25
1500	1800	4	5	5.5	7	9	12	17	13	18	24	17	25	36
2000	2400	5.5	7	7.5	9.5	12	16	23	17	24	30	22	33	47
3000	3600	9	11	12 <sup>1)</sup>	15	18 <sup>1)</sup>	25	36	26 <sup>1)</sup>	36	45	32 <sup>1)</sup>	48	70
6000	7200	20	25	25 <sup>1)</sup>	32	36 <sup>1)</sup>	50	70	50 <sup>1)</sup>	70	90	80 <sup>1)</sup>	90	125
10000	12000	35	45	45 <sup>1)</sup>	55	60 <sup>1)</sup>	90	120	80 <sup>1)</sup>	120	160	100 <sup>1)</sup>	150	200

1) Avoid sharp-edged metal parts in order to avoid a discharge halo at operating (reference) voltage.

## CONTA-CONNECT Technical Appendix

**Rated surge voltage** Excerpt from Table 1

Rated mains voltage for AC voltage systems acc. to IEC 60038	Wire voltage discharged to neutral wires from nominal mains voltage	Rated impulse voltage in V, for overvoltage category			
		I	II	III	III
	50	330	500	800	1500
	100	500	800	1500	2500
	150	800	1500	2500	4000
230/400 277/480 <sup>1)</sup>	300	1500	2500	4000	6000
400/690	600	2500	4000	6000	8000
1000	1000	4000	6000	8000	12000

1) The nominal mains voltage of 500 V is implied.

### Establishing the overvoltage categories

#### Overvoltage category I

Devices intended for connecting to a static electrical building installation.

Measures have been taken outside of the device (either in the fixed installation or between the fixed installation and the device) to limit transient overvoltages to the corresponding value.

#### Overvoltage category II

Devices intended for connecting to a static electrical building installation (for example, household appliances or portable tools).

#### Overvoltage category III

Devices which are part of the fixed installation and other devices where a high degree of availability is expected (for example, distributor panels, power switches, distribution systems (including cable, busbars, distribution boxes, switches and socket outlets) in the fixed installation,

devices for industrial use, and other devices with permanent connections to the fixed installation (such as stationary motors).

#### Overvoltage category VI

Devices for use at or near the feed into the electrical installation of buildings, and that from the main distribution in the direction of the mains system (for example, electricity meters, surge current circuit breakers and ripple-control units).

**Min. clearance distances** Take from Table 2a (DIN VDE 0110/01.89)

Rated impulse voltage KV	Case A (inhomogeneous field <sup>3)</sup> contamination degree)				Case A (homogeneous field <sup>1)</sup> contamination degree)			
	1	2	3	4	1	2	3	4
	0.33 <sup>2)</sup>	0.01				0.01		
0.40	0.02	0.1 <sup>4)</sup>			0.02	0.1 <sup>4)</sup>		
0.50 <sup>2)</sup>	0.04				0.04			
0.60	0.06	0.2	0.12 <sup>4)</sup>		0.06	0.2	0.12 <sup>4)</sup>	
0.80	0.10	0.2	0.8		0.10	0.8		
1.0	0.15			1.6	0.15	0.2		
1.2	0.25	0.25			0.2			
1.5 <sup>2)</sup>	0.5	0.5			0.3	0.3		
2.0	1.0	1.0	1.0		0.45	0.45		
2.5 <sup>2)</sup>	1.5	1.5	1.5		0.6	0.6		
3.0	2	2	2	2	0.8	0.8		
4.0 <sup>2)</sup>	3	3	3	3	1.2	1.2	1.2	
5.0	4	4	4	4	1.5	1.5	1.5	
6.0 <sup>2)</sup>	5.5	5.5	5.5	5.5	2	2	2	2
8.0 <sup>2)</sup>	8	8	8	8	3	3	3	3
10	11	11	11	11	3.5	3.5	3.5	3.5
12 <sup>2)</sup>	14	14	14	14	4.5	4.5	4.5	4.5
15	18	18	18	18	5.5	5.5	5.5	5.5
20	25	25	25	25	8	8	8	8
25	33	33	33	33	10	10	10	10
30	40	40	40	40	12.5	12.5	12.5	12.5
40	60	60	60	60	17	17	17	17
50	75	75	75	75	22	22	22	22
60	90	90	90	90	27	27	27	27
80	130	130	130	130	35	35	35	35
100	170	170	170	170	45	45	45	45

1) Proof from surge-voltage test is required when the clearance distance is smaller than the value specified for Case A.

2) Preferred values from Table 1.

3) Point against plate.

4) These values are valid, in contrast to IEC Report 664, for printed circuits. A corresponding German modification proposal is pending before the IEC.

## Height correction factors.

Height in m	Normal air pressure, in kPa	Multiplication factor for clearances
2000	80.0	1.00
3000	70.0	1.14
4000	62.0	1.29
5000	54.0	1.48
6000	47.0	1.70
7000	41.0	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12.0	6.67
20000	5.5	14.5

## Contamination degrees

### Contamination degree 1

Only dry, non-conductive contamination can occur. Contamination does not have any influence.

### Contamination degree 2

Only non-conductive contamination can occur. Occasionally, temporary conductivity may occur due to condensation.

### Contamination degree 3

Conductive contamination can occur. Dry, non-conductive contamination can occur which can become conductive due to condensation.

### Contamination degree 4

Contamination leads to constant conductivity (for example, from conductive dust, rain or snow).

The creepage and clearance distances and the resulting rated specifications for electro-mechanical products (terminal blocks, terminal strips, PCB connection terminals and plug-in connectors) are based on contamination degree 3 and overvoltage category III (unless otherwise specified) allowing for all types of mains systems.

## Assessing the creepage distances

Single-phase, 3-wire or 2-wire AC or DC voltages

Rated voltage of the power supply <sup>1)</sup>	Rated voltage, V Wire-wire All mains systems (between the wire with different polarity for U-)	Wire-earth
U <sub>eff</sub> or U <sub>-</sub> , in V	U <sub>eff</sub> or U <sub>-</sub>	U <sub>eff</sub> or U <sub>-</sub> , in V
12.5	12.5	-
24	25	-
25	25	-
30	32	-
42	50	-
48	50	-
50	50	-
60	63	-
30-60	63	32
100	100	100
110	125	110
120	125	120
150	160	150
220	250	220
110-220	250	125
220-240	250	125
300	320	-
220-440	500	250
600	630	-
480-960	1000	500
1000	1000	-

Three-phase, 4-wire or 3-wire AC voltage systems

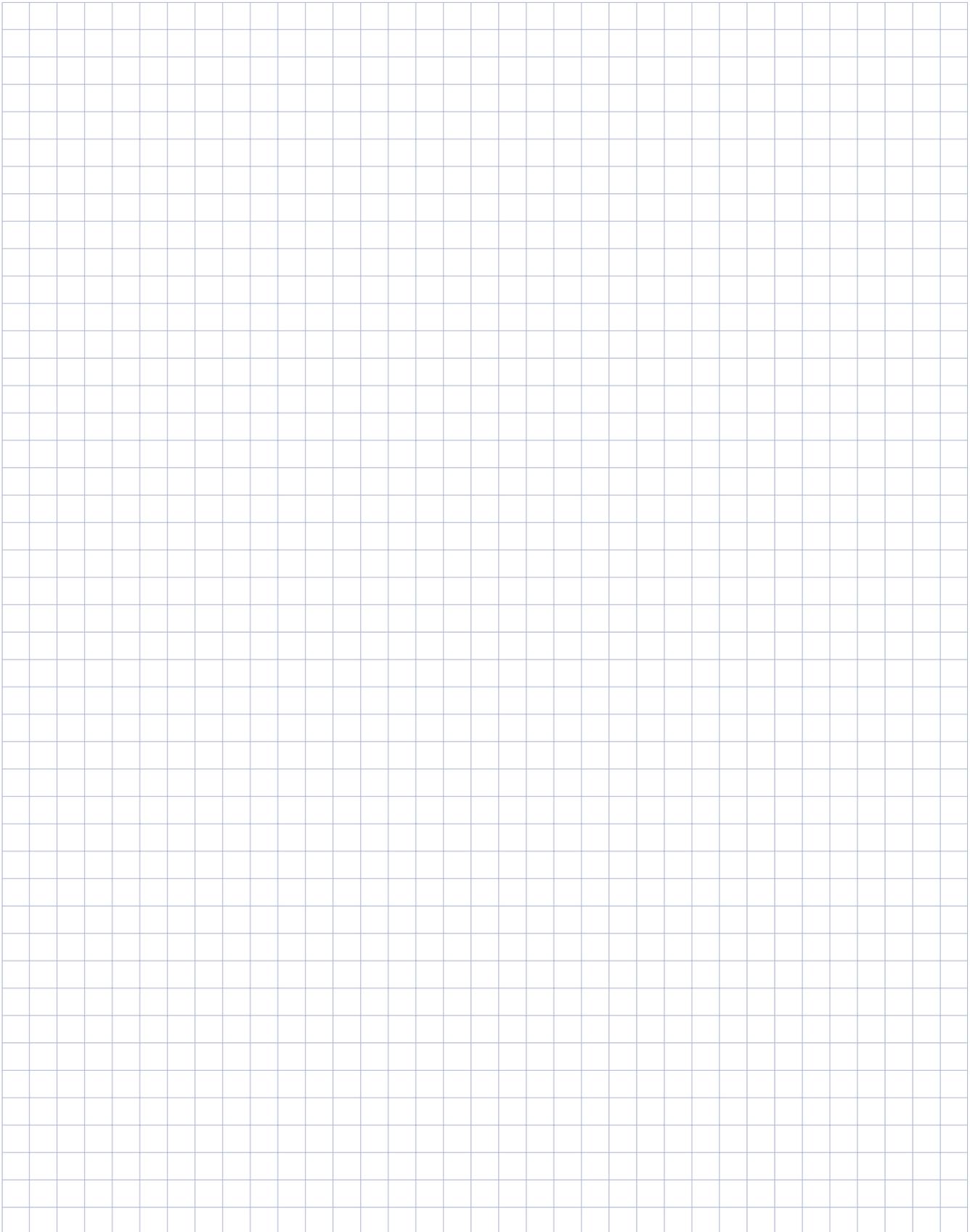
Rated voltage of the power supply <sup>1)</sup>	Rated voltage, V Wire-wire All systems	Wire-earth	
U <sub>eff</sub> , in V	U <sub>eff</sub>	U <sub>eff</sub>	U <sub>eff</sub>
60	63	32	63
110/120/127	125	80	125
150	160	-	160
208	200	125	200
220/230/240	250	160	250
300	320	-	320
380/400/415	400	250	400
440	500	250	400
480/500	500	320	500
575	630	400	630
600	630	-	630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000	1000	-	1000

**CONTA-CONNECT** Technical Appendix

**Minimum creepage distances**

Rated voltage U- eff or U-, in V	Printed circuits			Min. creepage distance, mm											
	Contamination degree			Remaining devices				Contamination degree 3				Contamination degree 4			
	1	2	1	Contamination degree 2				Insulation material				Insulation material			
	1)	2)	1)	I	II	III a	III b	I	II	III a	III b	I	II	IIIa	IIIb
10	0.025	0.04	0.08	0.4	0.4	0.4	0.4	1	1	1	1	1.6	1.6	1.6	
12.5	0.025	0.04	0.09	0.42	0.42	0.42	0.42	1.05	1.05	1.05	1.05	1.6	1.6	1.6	
16	0.025	0.04	0.1	0.45	0.45	0.45	0.45	1.1	1.1	1.1	1.1	1.6	1.6	1.6	
20	0.025	0.04	0.11	0.48	0.48	0.48	0.48	1.2	1.2	1.2	1.2	1.6	1.6	1.6	
25	0.025	0.04	0.125	0.5	0.5	0.5	0.5	1.25	1.25	1.25	1.25	1.7	1.7	1.7	
32	0.025	0.04	0.14	0.53	0.53	0.53	0.53	1.3	1.3	1.3	1.3	1.8	1.8	1.8	
40	0.025	0.04	0.16	0.56	0.8	1.1	1.1	1.4	1.6	1.8	1.8	1.9	2.4	3	
50	0.025	0.04	0.18	0.6	0.85	1.2	1.2	1.5	1.7	1.9	1.9	2	2.5	3.2	
63	0.040	0.63	0.2	0.63	0.9	1.25	1.25	1.6	1.8	2	2	2.1	2.6	3.4	
80	0.063	0.10	0.22	0.67	0.95	1.3	1.3	1.7	1.9	2.1	2.1	2.2	2.8	3.6	
100	0.100	0.16	0.25	0.71	1	1.4	1.4	1.8	2	2.2	2.2	2.4	3.0	3.8	
125	0.160	0.25	0.28	0.75	1.05	1.5	1.5	1.9	2.1	2.4	2.4	2.5	3.2	4	
160	0.250	0.40	0.32	0.8	1.1	1.6	1.6	2	2.2	2.5	2.5	3.2	4	5	
200	0.400	0.63	0.42	1	1.4	2	2	2.5	2.8	3.2	3.2	4	5	6.3 <sup>3)</sup>	
250	0.560	1.00	0.56	1.25	1.8	2.5	2.5	3.2	3.6	4	4	5	6.3	8	
320	0.750	1.60	0.75	1.6	2.2	3.2	3.2	4	4.5	5	5	6.3	8	10	
400	1.000	2.00	1	2	2.8	4	4	5	5.6	6.3	6.3	8	10	12.5	
500	1.300	2.50	1.3	2.5	3.6	5	5	6.3	7.1	8.0	8.0	10	12.5	16	
630	1.800	3.20	1.8	3.2	4.5	6.3	6.3	8	9	10	10	12.5	16	20	
800	2.400	4.00	2.4	4	5.6	8	8	10	11	12.5		16	20	25	
1000	3.200	5.00	3.2	5	7.1	10	10	12.5	14	16		20	25	32	

1) Insulating material I, II, III a, III b / 2) Insulating material I, II, III a / 3) Creepage distances not specified in this range.



## CONTA-CONNECT Approvals

### The CE label

The CE label originates from a resolution of the EC Council on May 7, 1986 (the new version concerning technical harmonization and standardization surrounding the elimination of technical trading hindrances within the EC). The implementation is carried out by the harmonization directives (EC guidelines). Although the application of the harmonized European norms is voluntary, conformity with the basic legal requirements for the protection of the health and safety of the consumer and environment can be assumed when manufacturing is conducted according to these standards.

The attachment of the CE label by the manufacturer, therefore, is proof that the protective requirements of the applicable EC guidelines were observed and that the required conformity valuation process was carried out. The fulfilment of these protective requirements is a legal requirement in order to sell a product in the EU.

The CE label is not meant for the purchaser or consumer; it is an administrative symbol and informs the supervisory authorities of the proof of conformity.

The following EC guidelines are relevant today for **CONTA-CLIP** products:

- **Electromagnetic Compatibility (2004/108/EC)**

for devices which can cause electromagnetic interference or are affected by interference.

- **Low Voltage Directive (2006/95/EC)**

for use with electrical equipment with a rated voltage between 50 and 1000 V (for AC current) and between 75 and 1500 V (for DC current).

- **Machine Safety (2006/42/EC)**

The entire construction and production at **CONTA-CLIP** has long been subject to these relevant standards and directives. Standard-compliant testing of our products is carried out in direct cooperation with the responsible, accredited laboratory of the TÜV Rheinland (Technical Inspection Agency of Rhineland – the inspection agency for device safety). Modern, computer-aided measurement and examination facilities help to ensure the fast, affordable and efficient processing of examinations and certifications

### Information about the CE label

CE labelling of the products or their packaging units is carried out according to the basic requirements found in all EC guidelines which apply to the products within the transitional periods established in the individual guidelines.

### Cable connectors

The CE labelling is carried out by the manufacturer within the scope of a manufacturer's declaration, in compliance with EC guidelines. This confirms conformity with the directive and is targeted for the authorities.

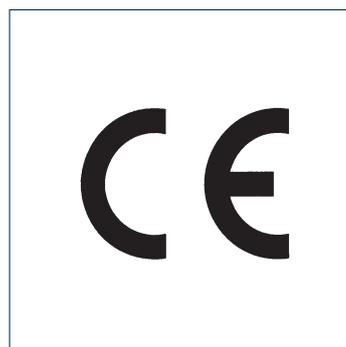
Cable connectors comply with the basic safety regulations given in the low voltage directive. The CE label is mandatory. It must be attached to the packaging because it confirms conformity with directives and ensures the free trade of goods in Europe.

In order to ensure that our products remain at the cutting edge of technology, we have worked closely and successfully with experts at **TÜV Rheinland Product Safety GmbH** and the **KEMA** inspection agency.

This excellent cooperation helps us to be completely sure of the electrical safety of our products.

Experts at an impartial inspection agency help us to satisfy all of the latest regulations and to meet our customers' current challenges.

Our innovative terminal blocks, for example, have been examined and certified to the highest possible extent by the **TÜV Rheinland Product Safety GmbH** and the **KEMA** Testing Authority for their conformity to international (IEC) and European norms (EN). These tests are documented in the existing inspection reports.



# CONTA-CONNECT Approvals

Cat. no.	Type
<b>UL</b>	
1001.2	RK 2,5-4
1002.2	KBL 2,5-4
1005.2	RK 6-10
1006.2	KBL 6-10
1010.2	RK 1,5-4/15
1011.2	KBL 1,5-4/15
1015.2	RK 1,5-4
1016.2	KBL 1,5-4
1018.2	RKB 4
1020.2	RKD 4
1021.2	KBLD 4
1025.2	RKD 4/800V
1026.2	RKD 4 SV/800V
1027.2	RKD 4 SV
1035.2	SRK 2,5/15
1050.2	RK 16
1052.2	RK 35
1055.2	SL 2,5/32
1056.2	SL 2,5/35
1057.2	SLN 2,5/32
1058.2	SLN 2,5/35
1064.2	SL 4/15
1065.2	SL 4/32
1066.2	SL 10/32
1101.2	SIK 10
1102.2	SIK 10/Z
1120.2	RK 50
1122.2	RK 95
1124.2	RK 150
1126.2	RK 240
1138.2	TK 10
1139.2	TK 4 SI 5*20
1140.	TK 4 SI 5*25
1141.2-1150.2	TK 4 (1-10 poles)
1151.2-1160.2	TK 4 F (1-10 poles)
1196.2	SL 16/32
1197.2	SL 16/35
1206.2	RKD 2,5
1207.2	KBLD 2,5 without diagram
1209.2	RKD 2,5 SV
1210.2	RK 2,5-4 ZR
1211.2	RK 2,5-4ZRL
1212.2	SL 4/35
1213.2	SL 10/35
1260.2	IK 2,5
1261.2	IKD 2,5
1295.2	IKD 2,5F
1296.2	RK 2,5
1297.2	KBL 2,5
1320.2-1335.2	BAK 2,5(1 pole)
1390.2	TRK 1,5
1391.2	TRK 1,5 STB
1392.2	TRK 1,5/15
1393.2	TRK 1,5/15 STB
1394.2	TRK 1,5 DS
1395.2	TRK 1,5 /DS/STB
1396.2	TRK 1,5/15 DS
1397.2	TRK 1,5/15/DS/STB
1398.3	TRK 1,5 BG without DS
1399.3	TRK 1,5/STB without DS
1444.2	SIK 10/K
2158.2	BAK 4(1 pole)
2190.2	STK 1
2191.2	STK 1/15
2192.2	STK 1/D
2193.2	TK 2
2194.2	TK 2/15
2195.2	TK 2/D/K BG
11230.1-11252.1	PKB 950/.../5,08
11277.1-11285.1	PKB 950/.../11285.1
11305.1-11319.1	PKB 1100/...5,08
11339.1-11353.1	PKB 1110/.../5,08

Cat. no.	Type
11354.1-11376.1	PBT 1200/2/5,08
12319.1-12341.1	PK-TS/...5,08
13175.1-13197.1	PK-TS/.../5,08/15
13825.1-13837.1	PK-TS/.../5,08-F/15
13848.1-13870.1	PK-TS/.../5,08-F/15

## CUL

Cat. no.	Type
1050.2	RK 16
1052.2	RK 35
1055.2	SL 2,5/32
1056.2	SL 2,5/35
1057.2	SLN 2,5/32
1058.2	SLN 2,5/35
1064.2	SL 4/15
1101.2	SIK 10
1102.2	SIK 10/Z
1138.2	TK 10
1139.2	TK 4 SI 5*20
1140.	TK 4 SI 5*25
1141.2-1150.2	TK 4 (1-10 poles)
1151.2-1160.2	TK 4 F (1-10 poles)
1206.2	RKD 2,5
1207.2	KBLD 2,5 without diagram
1209.2	RKD 2,5 SV
1210.2	RK 2,5-4 ZR
1211.2	RK 2,5-4ZRL
1212.2	SL 4/35
1213.2	SL 10/35
1260.2	IK 2,5
1261.2	IKD 2,5
1295.2	IKD 2,5F
1296.2	RK 2,5
1297.2	KBL 2,5
1320.2-1335.2	BAK 2,5(1 pole)
1390.2	TRK 1,5
1391.2	TRK 1,5 STB
1392.2	TRK 1,5/15
1393.2	TRK 1,5/15 STB
1394.2	TRK 1,5 DS
1395.2	TRK 1,5 /DS/STB
1396.2	TRK 1,5/15 DS
1397.2	TRK 1,5/15/DS/STB
1398.3	TRK 1,5 BG without DS
1399.3	TRK 1,5/STB without DS
1444.2	SIK 10/K
11339.1-11353.1	PKB 1110/.../5,08
11354.1-11376.1	PBT 1200/2/5,08
12319.1-12341.1	PK-TS/...5,08
13175.1-13197.1	PK-TS/.../5,08/15
13825.1-13837.1	PK-TS/.../5,08-F/15
13848.1-13870.1	PK-TS/.../5,08-F/15

## CSA

Cat. no.	Type
1001.2	RK 2,5-4
1004.4	SK 1/35 24 V AC LED PA-G
1005.2	RK 6-10
1006.2	KBL 6-10
1010.2	RK 1,5-4/15
1011.2	KBL 1,5-4/15
1015.2	RK 1,5-4
1016.2	KBL 1,5-4
1020.2	RKD 4
1021.2	KBLD 4
1025.2	RKD 4/800V
1026.2	RKD 4 SV/800V
1027.2	RKD 4 SV
1030.2	SRK 2,5
1035.2	SRK 2,5/15
1050.2	RK 16
1052.2	RK 35
1067.4	SK 1/35 48V DC LED PA-G
1078.2	STK 2
1079.2	STKD 1
1090.6	SK 1/32 KRG

Cat. no.	Type
1091.6	SK 1/32 KRG
1092.6	SK 1/35 KRG
1093.6	SK 1/35 KRG
1119.4	SK 1/35 48V AC LED PA-G
1120.2	RK 50
1122.2	RK 95
1124.2	RK 150
1126.2	RK 240
1127.2	RKD 2,5/35
1128.2	RKD 4/35
1130.2	PTK/LT
1131.2	PTK/LT/STB
1132.2	PTK/QT
1133.2	PTK/QT/STB
1134.2	PTK/DU
1135.2	PTK/DU/STB
1190.2	STK 2/15 BG
1196.2	SL 16/32
1197.2	SL 16/35
1198.2	SL 35/32
1199.2	SL 35/35
1222.2	TKS 4/1 BG
1223.2	TKS 4/2 BG
1224.2	TKS 4/3 BG
1225.2	TKS 4/1F BG
1226.2	TKS 4/2F BG
1227.2	TKS 4/3F BG
1261.2	IKD 2,5
1295.2	IKD 2,5F
1367.4	SK 1/35 PA-G
1368.4	SK 1/35 w.K. PA-G
1375.4	SK 1/35 230V AC G PA-G
1376.4	SK 1/35 115V AC G PA-G
1380.4	SK 1/35 24V DC LED PA-G
1418.2	DLI 2,5 PE/L/N
1419.2	DLI 2,5 PE/L/L
1420.2	DLI 2,5 L/N
1421.2	DLI 2,5 L/L
1422.2	DLI 2,5 N
1423.2	DLI 2,5 L
1425.2	VMAK 2,5
1497.2	BAK-10
1511.2	RK 16/35 N
1512.2	RK 35/35 N
1520.2	VMAB 2,5
1521.2	VMAB 2,5-4
1522.2	VMAB 6-10
1523.2	FNAB 2,5
1524.2	FNAB 2,5-4
1525.2	FNAB 6-10
1533.2	SL 16/35 N
1534.2	SL 35/35 N
1574.2	RK 2,5/35 N/2 Q
1577.2	RK 2,5-4/35
1578.2	RK 6-10/35
1579.2	RKD 2,5/35 SV
1581.2	RKD 4/35 SV
1748.4	RK 2,5-4/35 PA-G
1749.4	RK 6-10/35 PA-G
2158.2	BAK 4 (1 pole)
2269.2	IKD 2,5 F/Q
2584.2	RKDG 4
2747.4	RK 16/35 N PA-G
2748.4	RK 35/35 N PA-G
3200.2	FRK 1,5/2A BG
3201.2	FRK 1,5/3A BG
3202.2	FRK 1,5/4A BG
3203.2	FSL 1,5/2A
3204.2	FSL 1,5/3A
3205.2	FSL 1,5/4A
3210.2	FRK 2,5/2A BG
3211.2	FRK 2,5/3A BG
3212.2	FRK 2,5/4A BG
3213.2	FSL 2,5/2A

**CONTA-CONNECT Approvals**

Cat. no.	Type
3214.2	FSL 2,5/3A
3215.2	FSL 2,5/4A
3220.2	FRK 4/2A BG
3221.2	FRK 4/3A BG
3222.2	FRK 4/4A BG
3223.2	FSL 4/2A
3224.2	FSL 4/3A
3225.2	FSL 4/4A
3226.2	FRKD 2,5 BG
3227.2	FRKD 2,5 SV BG
3228.2	FRKD 2,5/Z BG
3229.2	FRKD 2,5 SV/Z BG
3230.2	FRKD 2,5/D1 BG
3231.2	FRKD 2,5-BL BG
3232.2	FRKD 2,5 SV-BL BG
3233.2	FRKD 2,5 N-DU
3234.2	FRKD 2,5 DU-PE
3235.2	FRKD 2,5 N-PE
3237.2	FRKD 2,5/LD1 BG
3238.2	FRKD 2,5/LD2 BG
3253.2	FRKD 2,5/D2 BG
3254.2	FRKD 2,5/D3 BG
3255.2	FRKD 2,5/D4 BG
3256.2	FRKD 2,5/D5 BG
3240.2	FDLIS 2,5-4 NT/L/PE
3241.2	FDLIS 2,5-4 N/L/PE
3242.2	FDLIS 2,5-4 L/L/PE
3243.2	FDLIS 2,5-4 N/L
3244.2	FDLIS 2,5-4 L/L
3245.2	FDLIS 2,5-4 N
3246.2	FDLIS 2,5-4 L
3247.2	FDLIS B 2,5-4 3NT/3L/3PE
3248.2	FDLIS B 2,5-4 NT/3L/PE
3249.2	FDLIS B 2,5-4 3L/3N/3PE
3250.2	FDLIS B 2,5-4 3L/N/PE
3251.2	FDLIS B 2,5-4 6L
3252.2	FDLIS B 2,5-4 6L/3PE
3236.2	FSLD 2,5
3500.2	ZRK 2,5/2A
3501.2	ZRK 2,5/3A
3502.2	ZRK 2,5/4A
3503.2	ZRK 2,5/2x2 A
3504.2	ZRK 2,5/2x2 A/D
3505.2	ZRK 2,5/2x2 A/LD
3510.2	ZSL 2,5/2A
3511.2	ZSL 2,5/3A
3512.2	ZSL 2,5/4A
3515.2	ZRK 4/2A
3516.2	ZRK 4/3A
3517.2	ZRK 4/4A
3518.2	ZRK 4/2x2A
3525.2	ZSL 4/2A
3526.2	ZSL 4/3A
3527.2	ZSL 4/4A
3528.2	ZIZA 1,5/3
3529.2	ZIZA 1,5/3/B
3532.2	ZIZA 1,5/3/PE
3533.2	ZIZA 1,5/4
3534.2	ZIZA 1,5/4/B
3537.2	ZIZA 1,5/4/PE
3542.2	ZRK 2,5/2x2 A/D- BG
3543.2	ZRK 2,5/2x2 A/LD- BG
3562.2	ZRKD 2,5
3563.2	ZRKD 2,5 SV
3564.2	ZRKD 2,5 N-DU
3565.2	ZRKD 2,5 DU-PE
3566.2	ZRKD 2,5 N-PE
3567.2	ZSLD 2,5
3568.2	ZRKD 2,5/LD1
3569.2	ZRKD 2,5/LD2
3570.2	ZRKD 2,5/D1
3571.2	ZRKD 2,5/D2
3572.2	ZRKD 2,5/D3
3573.2	ZRKD 2,5/D4

Cat. no.	Type
3574.2	ZRKD 2,5/D5
3581.2	ZRK 6/2A BG
3582.2	ZVMAK 2,5 BG
3583.2	ZSRK 2,5/2A/35
3584.2	ZSLN 2,5/2A
3585.2	ZSRK 2,5/2A/15 BG
3586.2	ZSLN 2,5/2A/15
3587.2	ZSRK 2,5/2A/RC BG
3588.2	ZSRK 2,5/2A/D BG
3589.2	ZSL 6/2A
3590.2	ZIKD 2,5 BG
3591.2	ZIKD 2,5 SV BG
3592.2	ZIKD 2,5 PE-L-L BG
3592.5	ZIKD 2,5 PE-N-N BU
3593.2	ZIKD 2,5 SV-PE GN
3594.2	ZIKD 2,5 PE-L-N BG
3595.2	ZSRK 2,5/2A/D/F BG
3596.2	ZMP 1,5 BG
3597.2	ZRK 10/2A BG
3598.2	ZSL 10/2A
3599.2	ZSRK 2,5/3A/15
3600.2	ZSRK 2,5/3A
3601.2	ZSLN 2,5/3A/15
3602.2	ZSLN 2,5/3A
3636.2	ZRK 16/2A
3637.2	ZSL 16/2A
3738.2	ZPL 1,5
3739.6	ZPL 1,5/BR
3742.5	ZPL 1,5/BL
3743.2	ZPL 1,5/PE GN
5001.1	PK 2,5/1/5,00
5101.1	PK 2,5/1
5201.1	PKDL 2,5/1/5,00
5301.1	PKDL 2,5/1/5,08
3257.2	FTRK 2,5/2A/OT BG
3258.2	FTRK 2,5/3A/OT BG
3259.2	FTRK 2,5/2A/MT BG
3260.2	FTRK 2,5/3A/MT BG
3261.2	FTRK 2,5/2A/ST BG
3262.2	FTRK 2,5/3A/ST BG
3263.2	FTRK 2,5/2A/ZS BG
3264.2	FTRK 2,5/2A/ZS 36 BG
3265.2	FTRK 2,5/2A/ZS 70 BG
3266.2	FTRK 2,5/2A/ZS 150 BG
3267.2	FTRK 2,5/2A/ZS 250 BG
3268.2	FTRK 2,5/3A/ZS BG
3269.2	FTRK 2,5/3A/ZS 36 BG
3270.2	FTRK 2,5/3A/ZS 70 BG
3271.2	FTRK 2,5/3A/ZS 150 BG
3272.2	FTRK 2,5/3A/ZS 250 BG
17003.2	HSK 120/M10 B
17007.2	HSK 120/M10 B/B
17004.2	HSK 120/M12 B
17000.2	HSK 16/M5 B
17001.2	HSK 35/M6 B
17005.2	HSK 35/M6 B/B
17002.2	HSK 50/M8 B
17006.2	HSK 50/M8 B/B

**CSA us**

1004.4	SK 1/35 24 V AC LED PA-G
1006.2	KBL 6-10
1011.2	KBL 1,5-4/15
1016.2	KBL 1,5-4
1021.2	KBLD 4
1025.2	RKD 4/800V
1026.2	RKD 4 SV/800V
1027.2	RKD 4 SV
1067.4	SK 1/35 48V DC LED PA-G
1078.2	STK 2
1079.2	STKD 1
1090.6	SK 1/32 KRG
1091.6	SK 1/32 KRG
1092.6	SK 1/35 KRG

Cat. no.	Type
1093.6	SK 1/35 KRG
1119.4	SK 1/35 48V AC LED PA-G
1120.2	RK 50
1122.2	RK 95
1124.2	RK 150
1126.2	RK 240
1127.2	RKD 2,5/35
1128.2	RKD 4/35
1130.2	PTK/LT
1131.2	PTK/LT/STB
1132.2	PTK/QT
1133.2	PTK/QT/STB
1134.2	PTK/DU
1135.2	PTK/DU/STB
1190.2	STK 2/15 BG
1196.2	SL 16/32
1197.2	SL 16/35
1198.2	SL 35/32
1199.2	SL 35/35
1222.2	TKS 4/1 BG
1223.2	TKS 4/2 BG
1224.2	TKS 4/3 BG
1225.2	TKS 4/1F BG
1226.2	TKS 4/2F BG
1227.2	TKS 4/3F BG
1261.2	IKD 2,5
1295.2	IKD 2,5F
1367.4	SK 1/35 PA-G
1368.4	SK 1/35 w.K. PA-G
1375.4	SK 1/35 230V AC G PA-G
1376.4	SK 1/35 115V AC G PA-G
1380.4	SK 1/35 24V DC LED PA-G
1418.2	DLI 2,5 PE/L/N
1419.2	DLI 2,5 PE/L/L
1420.2	DLI 2,5 L/N
1421.2	DLI 2,5 L/L
1422.2	DLI 2,5 N
1423.2	DLI 2,5 L
1425.2	VMAB 2,5
1497.2	BKA-10
1511.2	RK 16/35 N
1512.2	RK 35/35 N
1520.2	VMAB 2,5
1521.2	VMAB 2,5-4
1522.2	VMAB 6-10
1523.2	FNAB 2,5
1524.2	FNAB 2,5-4
1525.2	FNAB 6-10
1533.2	SL 16/35 N
1534.2	SL 35/35 N
1574.2	RK 2,5/35 N/2 Q
1577.2	RK 2,5-4/35
1578.2	RK 6-10/35
1579.2	RKD 2,5/35 SV
1581.2	RK 2,5-4/35 PA-G
1748.4	RK 6-10/35 PA-G
1749.4	RKD 4/35 SV
2269.2	IKD 2,5 F/Q
2584.2	RKDG 4
2747.4	RK 16/35 N PA-G
2748.4	RK 35/35 N PA-G
3200.2	FRK 1,5/2A BG
3201.2	FRK 1,5/3A BG
3202.2	FRK 1,5/4A BG
3203.2	FSL 1,5/2A
3204.2	FSL 1,5/3A
3205.2	FSL 1,5/4A
3210.2	FRK 2,5/2A BG
3211.2	FRK 2,5/3A BG
3212.2	FRK 2,5/4A BG
3213.2	FSL 2,5/2A
3214.2	FSL 2,5/3A
3215.2	FSL 2,5/4A
3220.2	FRK 4/2A BG

## CONTA-CONNECT Approvals

Cat. no.	Type
3221.2	FRK 4/3A BG
3222.2	FRK 4/4A BG
3223.2	FSL 4/2A
3224.2	FSL 4/3A
3225.2	FSL 4/4A
3226.2	FRKD 2,5 BG
3227.2	FRKD 2,5 SV BG
3228.2	FRKD 2,5/Z BG
3229.2	FRKD 2,5 SV/Z BG
3230.2	FRKD 2,5/D1 BG
3231.2	FRKD 2,5-BL BG
3232.2	FRKD 2,5 SV-BL BG
3233.2	FRKD 2,5 N-DU
3234.2	FRKD 2,5 DU-PE
3235.2	FRKD 2,5 N-PE
3237.2	FRKD 2,5/LD1 BG
3238.2	FRKD 2,5/LD2 BG
3253.2	FRKD 2,5/D2 BG
3254.2	FRKD 2,5/D3 BG
3255.2	FRKD 2,5/D4 BG
3256.2	FRKD 2,5/D5 BG
3240.2	FDLIS 2,5-4 NT/L/PE
3241.2	FDLIS 2,5-4 N/L/PE
3242.2	FDLIS 2,5-4 L/L/PE
3243.2	FDLIS 2,5-4 N/L
3244.2	FDLIS 2,5-4 L/L
3245.2	FDLIS 2,5-4 N
3246.2	FDLIS 2,5-4 L
3247.2	FDLIS B 2,5-4 3NT/3L/3PE
3248.2	FDLIS B 2,5-4 NT/3L/PE
3249.2	FDLIS B 2,5-4 3L/3N/3PE
3250.2	FDLIS B 2,5-4 3L/N/PE
3251.2	FDLIS B 2,5-4 6L
3252.2	FDLIS B 2,5-4 6L/3PE
3236.2	FSLD 2,5
3500.2	ZRK 2,5/2A
3501.2	ZRK 2,5/3A
3502.2	ZRK 2,5/4A
3503.2	ZRK 2,5/2x2 A
3504.2	ZRK 2,5/2x2 A/D
3505.2	ZRK 2,5/2x2 A/LD
3510.2	ZSL 2,5/2A
3511.2	ZSL 2,5/3A
3512.2	ZSL 2,5/4A
3515.2	ZRK 4/2A
3516.2	ZRK 4/3A
3517.2	ZRK 4/4A
3518.2	ZRK 4/2x2A
3525.2	ZSL 4/2A
3526.2	ZSL 4/3A
3527.2	ZSL 4/4A
3528.2	ZIZA 1,5/3
3529.2	ZIZA 1,5/3/B
3532.2	ZIZA 1,5/3/PE
3533.2	ZIZA 1,5/4
3534.2	ZIZA 1,5/4/B
3537.2	ZIZA 1,5/4/PE
3542.2	ZRK 2,5/2x2 A/D- BG
3543.2	ZRK 2,5/2x2 A/LD- BG
3562.2	ZRKD 2,5
3563.2	ZRKD 2,5 SV
3564.2	ZRKD 2,5 N-DU
3565.2	ZRKD 2,5 DU-PE
3566.2	ZRKD 2,5 N-PE
3567.2	ZSLD 2,5
3568.2	ZRKD 2,5/LD1
3569.2	ZRKD 2,5/LD2
3570.2	ZRKD 2,5/D1
3571.2	ZRKD 2,5/D2
3572.2	ZRKD 2,5/D3
3573.2	ZRKD 2,5/D4
3574.2	ZRKD 2,5/D5
3581.2	ZRK 6/2A BG
3582.2	ZVMAK 2,5 BG

Cat. no.	Type
3583.2	ZSRK 2,5/2A/35
3584.2	ZSLN 2,5/2A
3585.2	ZSRK 2,5/2A/15 BG
3586.2	ZSLN 2,5/2A/15
3587.2	ZSRK 2,5/2A/RC BG
3588.2	ZSRK 2,5/2A/D BG
3589.2	ZSL 6/2A
3590.2	ZIKD 2,5 BG
3591.2	ZIKD 2,5 SV BG
3592.2	ZIKD 2,5 PE-L-L BG
3592.5	ZIKD 2,5 PE-N-N BU
3593.2	ZIKD 2,5 SV-PE GN
3594.2	ZIKD 2,5 PE-L-N BG
3595.2	ZSRK 2,5/2A/D/F BG
3596.2	ZMP 1,5 BG
3597.2	ZRK 10/2A BG
3598.2	ZSL 10/2A
3599.2	ZSRK 2,5/3A/15
3600.2	ZSRK 2,5/3A
3601.2	ZSLN 2,5/3A/15
3602.2	ZSLN 2,5/3A
3636.2	ZRK 16/2A
3637.2	ZSL 16/2A
3738.2	ZPL 1,5
3739.6	ZPL 1,5/BR
3742.5	ZPL 1,5/BL
3743.2	ZPL 1,5/PE GN
3257.2	FTRK 2,5/2A/OT BG
3258.2	FTRK 2,5/3A/OT BG
3259.2	FTRK 2,5/2A/MT BG
3260.2	FTRK 2,5/3A/MT BG
3261.2	FTRK 2,5/2A/ST BG
3262.2	FTRK 2,5/3A/ST BG
3263.2	FTRK 2,5/2A/ZS BG
3264.2	FTRK 2,5/2A/ZS 36 BG
3265.2	FTRK 2,5/2A/ZS 70 BG
3266.2	FTRK 2,5/2A/ZS 150 BG
3267.2	FTRK 2,5/2A/ZS 250 BG
3268.2	FTRK 2,5/3A/ZS BG
3269.2	FTRK 2,5/3A/ZS 36 BG
3270.2	FTRK 2,5/3A/ZS 70 BG
3271.2	FTRK 2,5/3A/ZS 150 BG
3272.2	FTRK 2,5/3A/ZS 250 BG
17003.2	HSK 120/M10 B
17007.2	HSK 120/M10 B/B
17004.2	HSK 120/M12 B
17000.2	HSK 16/M5 B
17001.2	HSK 35/M6 B
17005.2	HSK 35/M6 B/B
17002.2	HSK 50/M8 B
17006.2	HSK 50/M8 B/B

## NEMKO

1001.2	RK 2,5-4
1002.2	KBL 2,5-4
1005.2	RK 6-10
1006.2	KBL 6-10
1010.2	RK 1,5-4/15
1011.2	KBL 1,5-4/15
1014.2	FF 2,5
1015.2	RK 1,5-4
1016.2	KBL 1,5-4
1019.2	SF 2,5-4
1020.2	RKD 4
1021.2	KBLD 4
1025.2	RKD 4/800V
1027.2	RKD 4 SV
1030.2	SRK 2,5
1035.2	SRK 2,5/15
1050.2	RK 16
1052.2	RK 35
1055.2	SL 2,5/32
1056.2	SL 2,5/35
1057.2	SLN 2,5/32

Cat. no.	Type
1058.2	SLN 2,5/35
1064.2	SL 4/15
1065.2	SL 4/32
1066.2	SL 10/32
1078.2	STK 2
1079.2	STKD 1
1090.6	SK 1/32 KRG
1091.6	SK 1/32 KRG
1092.6	SK 1/35 KRG
1093.6	SK 1/35 KRG
1101.2	SIK 10
1102.2	SIK 10/Z
1103.2	SIK 10/LED BG
1104.2	SIK 10/LED BG
1105.2	SIK 10/LED BG
1106.2	SIK 10/LED BG
1107.2	SIK 10/2 LED 's BG
1108.2	SIK 10/Z/LED BG
1109.2	SIK 10/Z/LED BG
1110.2	SIK 10/Z/LED BG
1111.2	SIK 10/Z/LED BG
1112.2	SIK 10/Z/2 LED 's BG
1120.2	RK 50
1122.2	RK 95
1124.2	RK 150
1126.2	RK 240
1127.2	RKD 2,5/35
1128.2	RKD 4/35
1138.2	TK 10
1141.2-1150.2	TK 4 (1-10 poles)
1151.2-1160.2	TK 4 F (1-10 poles)
1190.2	STK 2/15 BG
1196.2	SL 16/32
1197.2	SL 16/35
1198.2	SL 35/32
1199.2	SL 35/35
1206.2	RKD 2,5
1209.2	RKD 2,5 SV
1210.2	RK 2,5-4 ZR
1211.2	RK 2,5-4ZRL
1212.2	SL 4/35
1213.2	SL 10/35
1214.5	NT 2,5 - 4
1215.5	NT 6-10
1216.5	NT 2,5 - 4
1217.5	NT 6-10
1260.2	IK 2,5
1261.2	IKD 2,5
1295.2	IKD 2,5F
1296.2	RK 2,5
1320.2-1335.2	BKA 2,5(1 pole)
1390.2	TRK 1,5
1391.2	TRK 1,5 STB
1392.2	TRK 1,5/15
1393.2	TRK 1,5/15 STB
1394.2	TRK 1,5 DS
1395.2	TRK 1,5 /DS/STB
1396.2	TRK 1,5/15 DS
1397.2	TRK 1,5/15/DS/STB
1398.3	TRK 1,5 BG without DS
1399.3	TRK 1,5/STB without DS
1418.2	DLI 2,5 PE/L/N
1419.2	DLI 2,5 PE/L/L
1420.2	DLI 2,5 L/N
1421.2	DLI 2,5 L/L
1425.2	VMAK 2,5
1497.2	BKA-10
1497.2 - 1510.2	BKA 10 (1 pole)
1511.2	RK 16/35 N
1512.2	RK 35/35 N
1520.2	VMAB 2,5
1521.2	VMAB 2,5-4
1522.2	VMAB 6-10
1523.2	FNAB 2,5

**CONTA-CONNECT Approvals**

Cat. no.	Type
1524.2	FNAB 2,5-4
1525.2	FNAB 6-10
1533.2	SL 16/35 N
1534.2	SL 35/35 N
1574.2	RK 2,5/35 N/2 Q
1577.2	RK 2,5-4/35
1578.2	RK 6-10/35
1579.2	RKD 2,5/35 SV
1581.2	RKD 4/35 SV
2158.2	BAK 4(1 pole)
2268.2	IKD 2,5/Q
2269.2	IKD 2,5 F/Q
2584.2	RKDG 4
3200.2	FRK 1,5/2A BG
3201.2	FRK 1,5/3A BG
3202.2	FRK 1,5/4A BG
3203.2	FSL 1,5/2A
3204.2	FSL 1,5/3A
3205.2	FSL 1,5/4A
3210.2	FRK 2,5/2A BG
3211.2	FRK 2,5/3A BG
3212.2	FRK 2,5/4A BG
3213.2	FSL 2,5/2A
3214.2	FSL 2,5/3A
3215.2	FSL 2,5/4A
3220.2	FRK 4/2A BG
3221.2	FRK 4/3A BG
3222.2	FRK 4/4A BG
3223.2	FSL 4/2A
3224.2	FSL 4/3A
3225.2	FSL 4/4A
3500.2	ZRK 2,5/2A
3501.2	ZRK 2,5/3A
3502.2	ZRK 2,5/4A
3503.2	ZRK 2,5/2x2 A
3504.2	ZRK 2,5/2x2 A/D
3505.2	ZRK 2,5/2x2 A/LD
3510.2	ZSL 2,5/2A
3511.2	ZSL 2,5/3A
3512.2	ZSL 2,5/4A
3515.2	ZRK 4/2A
3516.2	ZRK 4/3A
3517.2	ZRK 4/4A
3518.2	ZRK 4/2x2A
3519.2	ZRK 4/2x2 A/D BG
3520.2	ZRK 4/2x2 A/LED BG
3525.2	ZSL 4/2A
3526.2	ZSL 4/3A
3527.2	ZSL 4/4A
3528.2	ZIZA 1,5/3
3529.2	ZIZA 1,5/3/B
3532.2	ZIZA 1,5/3/PE
3533.2	ZIZA 1,5/4
3534.2	ZIZA 1,5/4/B
3537.2	ZIZA 1,5/4/PE
3562.2	ZRKD 2,5
3563.2	ZRKD 2,5 SV
3564.2	ZRKD 2,5 N-DU
3565.2	ZRKD 2,5 DU-PE
3566.2	ZRKD 2,5 N-PE
3567.2	ZSLD 2,5
3581.2	ZRK 6/2A BG
3582.2	ZVMAK 2,5 BG
3583.2	ZSRK 2,5/2A/35
3584.2	ZSLN 2,5/2A
3585.2	ZSRK 2,5/2A/15 BG
3586.2	ZSLN 2,5/2A/15
3587.2	ZSRK 2,5/2A/RC BG
3588.2	ZSRK 2,5/2A/D BG
3589.2	ZSL 6/2A
3590.2	ZIKD 2,5 BG
3591.2	ZIKD 2,5 SV BG
3592.2	ZIKD 2,5 PE-L-L BG
3592.5	ZIKD 2,5 PE-N-N BU

Cat. no.	Type
3593.2	ZIKD 2,5 SV-PE GN
3594.2	ZIKD 2,5 PE-L-N BG
3595.2	ZSRK 2,5/2A/D/F BG
3596.2	ZMP 1,5 BG
3597.2	ZRK 10/2A BG
3598.2	ZSL 10/2A
3599.2	ZSRK 2,5/3A/15
3600.2	ZSRK 2,5/3A
3601.2	ZSLN 2,5/3A/15
3602.2	ZSLN 2,5/3A
3603.2-3630.2	ZTRK 2,5
3636.2	ZRK 16/2A
3637.2	ZSL 16/2A
3738.2	ZPL 1,5
3739.6	ZPL 1,5/BR
3742.5	ZPL 1,5/BL
3743.2	ZPL 1,5/PE GN

**KEMA**

1222.2	TKS 4/1 BG
1223.2	TKS 4/2 BG
1224.2	TKS 4/3 BG
1225.2	TKS 4/1F BG
1226.2	TKS 4/2F BG
1227.2	TKS 4/3F BG
3226.2	FRKD 2,5 BG
3227.2	FRKD 2,5 SV BG
3228.2	FRKD 2,5/Z BG
3229.2	FRKD 2,5 SV/Z BG
3230.2	FRKD 2,5/D1 BG
3231.2	FRKD 2,5-BL BG
3232.2	FRKD 2,5 SV-BL BG
3233.2	FRKD 2,5 N-DU
3234.2	FRKD 2,5 DU-PE
3235.2	FRKD 2,5 N-PE
3237.2	FRKD 2,5/LD1 BG
3238.2	FRKD 2,5/LD2 BG
3253.2	FRKD 2,5/D2 BG
3254.2	FRKD 2,5/D3 BG
3255.2	FRKD 2,5/D4 BG
3256.2	FRKD 2,5/D5 BG
3240.2	FDLIS 2,5-4 NT/L/PE
3241.2	FDLIS 2,5-4 N/L/PE
3242.2	FDLIS 2,5-4 L/L/PE
3243.2	FDLIS 2,5-4 N/L
3244.2	FDLIS 2,5-4 L/L
3245.2	FDLIS 2,5-4 N
3246.2	FDLIS 2,5-4 L
3247.2	FDLIS B 2,5-4 3NT/3L/3PE
3248.2	FDLIS B 2,5-4 NT/3L/PE
3249.2	FDLIS B 2,5-4 3L/3N/3PE
3250.2	FDLIS B 2,5-4 3L/N/PE
3251.2	FDLIS B 2,5-4 6L
3252.2	FDLIS B 2,5-4 6L/3PE
3257.2	FTRK 2,5/2A/OT BG
3258.2	FTRK 2,5/3A/OT BG
3259.2	FTRK 2,5/2A/MT BG
3260.2	FTRK 2,5/3A/MT BG
3261.2	FTRK 2,5/2A/ST BG
3262.2	FTRK 2,5/3A/ST BG
3263.2	FTRK 2,5/2A/ZS BG
3264.2	FTRK 2,5/2A/ZS 36 BG
3265.2	FTRK 2,5/2A/ZS 70 BG
3266.2	FTRK 2,5/2A/ZS 150 BG
3267.2	FTRK 2,5/2A/ZS 250 BG
3268.2	FTRK 2,5/3A/ZS BG
3269.2	FTRK 2,5/3A/ZS 36 BG
3270.2	FTRK 2,5/3A/ZS 70 BG
3271.2	FTRK 2,5/3A/ZS 150 BG
3272.2	FTRK 2,5/3A/ZS 250 BG
17003.2	HSK 120/M10 B
17007.2	HSK 120/M10 B/B
17004.2	HSK 120/M12 B
17000.2	HSK 16/M5 B

Cat. no.	Type
17001.2	HSK 35/M6 B
17005.2	HSK 35/M6 B/B
17002.2	HSK 50/M8 B
17006.2	HSK 50/M8 B/B

**GOST**

1001.2	RK 2,5-4
1002.2	KBL 2,5-4
1005.2	RK 6-10
1006.2	KBL 6-10
1010.2	RK 1,5-4/15
1011.2	KBL 1,5-4/15
1014.2	FF 2,5
1015.2	RK 1,5-4
1016.2	KBL 1,5-4
1018.2	SKB 4
1019.2	SF 2,5-4
1020.2	RKD 4
1021.2	KBLD 4
1025.2	RKD 4/800V
1026.2	RKD 4 SV/800V
1027.2	RKD 4 SV
1030.2	SRK 2,5
1035.2	SRK 2,5/15
1050.2	RK 16
1052.2	RK 35
1055.2	SL 2,5/32
1056.2	SL 2,5/35
1057.2	SLN 2,5/32
1058.2	SLN 2,5/35
1064.2	SL 4/15
1065.2	SL 4/32
1066.2	SL 10/32
1078.2	STK 2
1079.2	STKD 1
1120.2	RK 50
1122.2	RK 95
1124.2	RK 150
1126.2	RK 240
1127.2	RKD 2,5/35
1128.2	RKD 4/35
1130.2	PTK/LT
1131.2	PTK/LT/STB
1132.2	PTK/QT
1133.2	PTK/QT/STB
1134.2	PTK/DU
1135.2	PTK/DU/STB
1138.2	TK 10
1139.2	TK 4 SI 5*20
1140.2	TK 4 SI 5*25
1141.2-1150.2	TK 4 (1-10 poles)
1151.2-1160.2	TK 4 F (1-10 poles)
1162.2	RK 16/Z BG
1163.2	RK 35/Z BG
1170.6	HSK 70/35 BB KRG
1171.6	HSK 95/35 BB KRG
1172.6	HSK 150/35 BB KRG
1190.2	STK 2/15
1190.2	STK 2/15 BG
1196.2	SL 16/32
1197.2	SL 16/35
1198.2	SL 35/32
1199.2	SL 35/35
1200.2	TSK 2,5 T BG
1201.2	TSK 2,5 J BG
1202.2	TSK 2,5 E BG
1203.2	TSK 2,5 K BG
1204.2	TSK 2,5 S BG
1205.2	TSK 2,5 R BG
1206.2	RKD 2,5
1207.2	KBLD 2,5 without diagram
1209.2	RKD 2,5 SV
1210.2	RK 2,5-4 ZR
1211.2	RK 2,5-4ZRL

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Cat. no.	Type
1212.2	SL 4/35
1213.2	SL 10/35
1214.5	NT 2,5 - 4
1215.5	NT 6-10
1216.5	NT 2,5 - 4
1217.5	NT 6-10
1260.2	IK 2,5
1261.2	IKD 2,5
1295.2	IKD 2,5F
1296.2	RK 2,5
1297.2	KBL 2,5
1320.2-1335.2	BKA 2,5(1 pole)
1381.2	STK 2/K
1382.2	STK 2/15/K
1383.2	STKD 1/K
1410.2	DLIS 2,5 PE/L/NT
1411.2	DLIS 2,5 PE/L/N
1412.2	DLIS 2,5 PE/L/L
1413.2	DLIS L/N
1414.2	DLIS L/L
1415.2	DLIS N
1416.2	DLIS L
1417.2	DLI PE/L/NT
1418.2	DLI 2,5 PE/L/N
1419.2	DLI 2,5 PE/L/L
1420.2	DLI 2,5 L/N
1421.2	DLI 2,5 L/L
1422.2	DLI 2,5 N
1423.2	DLI 2,5 L
1425.2	VMAB 2,5
1497.2	BKA-10
1497.2 - 1510.2	BKA 10 (1 pole)
1511.2	RK 16/35 N
1512.2	RK 35/35 N
1520.2	VMAB 2,5
1521.2	VMAB 2,5-4
1522.2	VMAB 6-10
1523.2	FNAB 2,5
1524.2	FNAB 2,5-4
1525.2	FNAB 6-10
1533.2	SL 16/35 N
1534.2	SL 35/35 N
1535.2	SL 16/35 IS
1536.2	SL 16/35 N/IS
1574.2	RK 2,5/35 N/2 Q
1577.2	RK 2,5-4/35
1578.2	RK 6-10/35
1579.2	RKD 2,5/35 SV
1581.2	RKD 4/35 SV
1748.4	RK 2,5-4/35 PA-G
1749.4	RK 6-10/35 PA-G
2158.2	BKA 4(1 pole)
2190.2	STK 1
2191.2	STK 1/15
2192.2	STK 1/D
2193.2	TK 2
2194.2	TK 2/15
2195.2	TK 2/D/K BG
2250.6	RK 2,5/32 KRG
2251.6	RK 4/32 KRG
2252.6	RK 6/32 KRG
2253.6	RK 10/32 KRG
2254.6	RK 16/32 KRG
2255.6	RK 35/32 KRG
2268.2	IKD 2,5/Q
2269.2	IKD 2,5 F/Q
2584.2	RKDG 4
2747.4	RK 16/35 N PA-G
2748.4	RK 35/35 N PA-G
3200.2	FRK 1,5/2A BG
3201.2	FRK 1,5/3A BG
3202.2	FRK 1,5/4A BG
3203.2	FSL 1,5/2A
3204.2	FSL 1,5/3A

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3205.2	FSL 1,5/4A
3210.2	FRK 2,5/2A BG
3211.2	FRK 2,5/3A BG
3212.2	FRK 2,5/4A BG
3213.2	FSL 2,5/2A
3214.2	FSL 2,5/3A
3215.2	FSL 2,5/4A
3220.2	FRK 4/2A BG
3221.2	FRK 4/3A BG
3222.2	FRK 4/4A BG
3223.2	FSL 4/2A
3224.2	FSL 4/3A
3225.2	FSL 4/4A
3500.2	ZRK 2,5/2A
3501.2	ZRK 2,5/3A
3502.2	ZRK 2,5/4A
3503.2	ZRK 2,5/2x2 A
3504.2	ZRK 2,5/2x2 A/D
3505.2	ZRK 2,5/2x2 A/LD
3510.2	ZSL 2,5/2A
3511.2	ZSL 2,5/3A
3512.2	ZSL 2,5/4A
3515.2	ZRK 4/2A
3516.2	ZRK 4/3A
3517.2	ZRK 4/4A
3518.2	ZRK 4/2x2A
3519.2	ZRK 4/2x2 A/D BG
3520.2	ZRK 4/2x2 A/LED BG
3525.2	ZSL 4/2A
3526.2	ZSL 4/3A
3527.2	ZSL 4/4A
3528.2	ZIZA 1,5/3
3529.2	ZIZA 1,5/3/B
3532.2	ZIZA 1,5/3/PE
3533.2	ZIZA 1,5/4
3534.2	ZIZA 1,5/4/B
3537.2	ZIZA 1,5/4/PE
3542.2	ZRK 2,5/2x2 A/D- BG
3543.2	ZRK 2,5/2x2 A/LD- BG
3562.2	ZRKD 2,5
3563.2	ZRKD 2,5 SV
3564.2	ZRKD 2,5 N-DU
3565.2	ZRKD 2,5 DU-PE
3566.2	ZRKD 2,5 N-PE
3567.2	ZSLD 2,5
3568.2	ZRKD 2,5/LD1
3569.2	ZRKD 2,5/LD2
3570.2	ZRKD 2,5/D1
3571.2	ZRKD 2,5/D2
3572.2	ZRKD 2,5/D3
3573.2	ZRKD 2,5/D4
3574.2	ZRKD 2,5/D5
3581.2	ZRK 6/2A BG
3582.2	ZVMAK 2,5 BG
3583.2	ZSRK 2,5/2A/35
3584.2	ZSLN 2,5/2A
3585.2	ZSRK 2,5/2A/15 BG
3586.2	ZSLN 2,5/2A/15
3587.2	ZSRK 2,5/2A/RC BG
3588.2	ZSRK 2,5/2A/D BG
3589.2	ZSL 6/2A
3590.2	ZIKD 2,5 BG
3591.2	ZIKD 2,5 SV BG
3592.2	ZIKD 2,5 PE-L-L BG
3592.5	ZIKD 2,5 PE-N-N BU
3593.2	ZIKD 2,5 SV-PE GN
3594.2	ZIKD 2,5 PE-L-N BG
3595.2	ZSRK 2,5/2A/D/F BG
3596.2	ZMP 1,5 BG
3597.2	ZRK 10/2A BG
3598.2	ZSL 10/2A
3599.2	ZSRK 2,5/3A/15
3600.2	ZSRK 2,5/3A
3601.2	ZSLN 2,5/3A/15

Cat. no.	Type
3602.2	ZSLN 2,5/3A
3603.2	ZTRK 2,5
3636.2	ZRK 16/2A
3637.2	ZSL 16/2A
3638.2	ZSLN 2,5/2A/D
3639.2	ZSLN 2,5/2A/RC
3640.2	ZSLN 2,5/2A/D/F
3738.2	ZPL 1,5
3739.6	ZPL 1,5/BR
3742.5	ZPL 1,5/BL
3743.2	ZPL 1,5/PE GN
5001.1	PK 2,5/1/5,00
5101.1	PK 2,5/1
5201.1	PKDL 2,5/1/5,00
5301.1	PKDL 2,5/1/5,08
17003.2	HSK 120/M10 B
17007.2	HSK 120/M10 B/B
17004.2	HSK 120/M12 B
17000.2	HSK 16/M5 B
17001.2	HSK 35/M6 B
17005.2	HSK 35/M6 B/B
17002.2	HSK 50/M8 B
17006.2	HSK 50/M8 B/B
17103.2	SSL 2,5/2A
17107.2	SSL 4/2A
17111.2	SSL 6/2A
17115.2	SSL 10/2A

## BBJ

1001.2	RK 2,5-4
1005.2	RK 6-10
1015.2	RK 1,5-4
1020.2	RKD 4
1050.2	RK 16
1052.2	RK 35
1056.2	SL 2,5/35
1078.2	STK 2
1092.6	SK 1/35 KRG
1093.6	SK 1/35 KRG
1120.2	RK 50
1122.2	RK 95
1124.2	RK 150
1126.2	RK 240
1170.6	HSK 70/35 BB KRG
1171.6	HSK 95/35 BB KRG
1172.6	HSK 150/35 BB KRG
1197.2	SL 16/35
1199.2	SL 35/35
1212.2	SL 4/35
1213.2	SL 10/35
1296.2	RK 2,5
1381.2	STK 2/K
1410.2	DLIS 2,5 PE/L/NT
1411.2	DLIS 2,5 PE/L/N
1412.2	DLIS 2,5 PE/L/L

## DNV

1001.2	RK 2,5-4
1005.2	RK 6-10
1015.2	RK 1,5-4
1020.2	RKD 4
1030.2	SRK 2,5
1035.2	SRK 2,5/15
1050.2	RK 16
1052.2	RK 35
1064.2	SL 4/15
1065.2	SL 4/32
1066.2	SL 10/32
1212.2	SL 4/35
1213.2	SL 10/35
1296.2	RK 2,5

## MEEI

1001.2	RK 2,5-4
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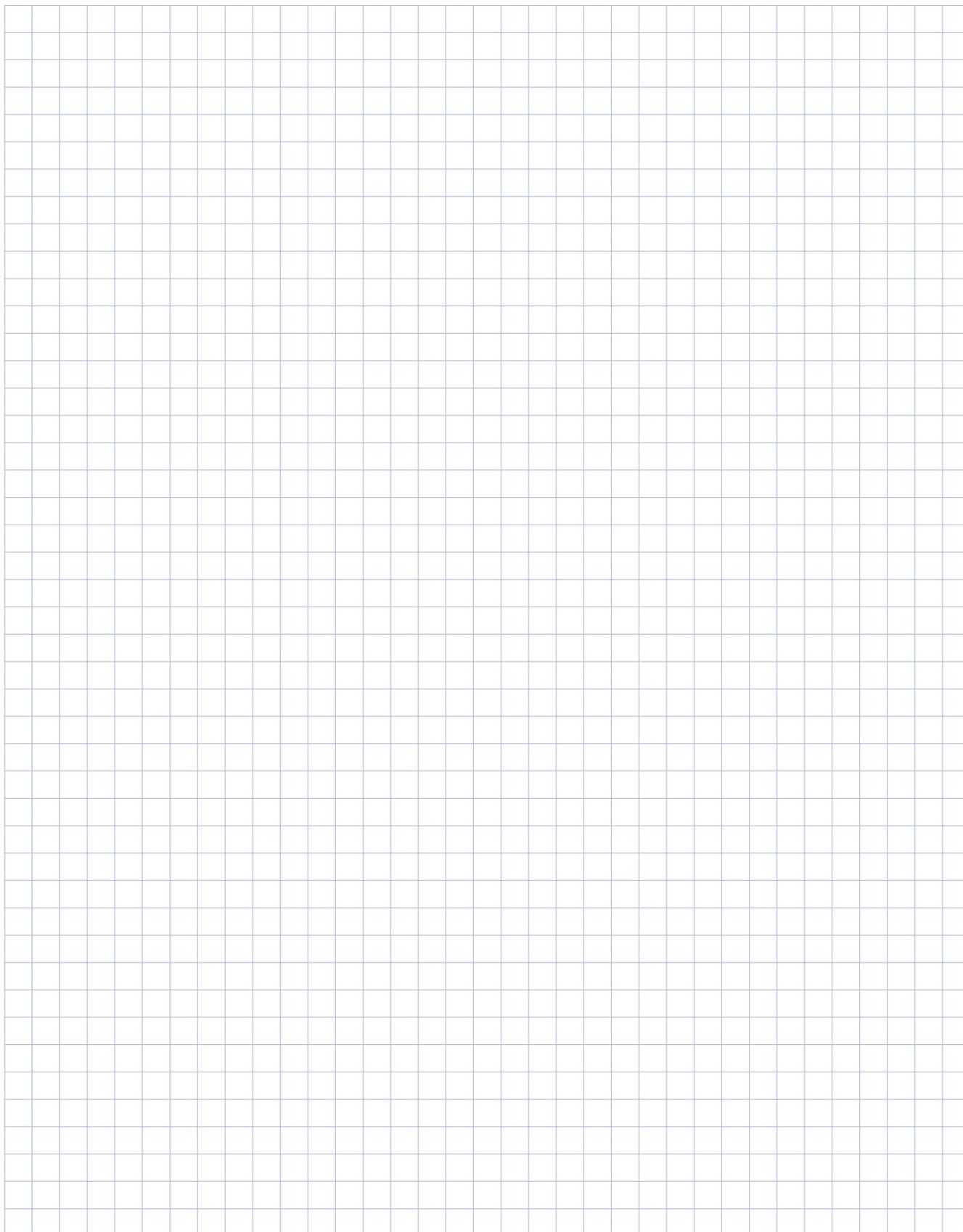
**CONTA-CONNECT Approvals**

Cat. no.	Type	Cat. no.	Type	Cat. no.	Type
1002.2	KBL 2,5-4	3537.2	ZIZA 1,5/4/PE		
1005.2	RK 6-10	3562.2	ZRKD 2,5		
1006.2	KBL 6-10	3563.2	ZRKD 2,5 SV		
1010.2	RK 1,5-4/15	3564.2	ZRKD 2,5 N-DU		
1011.2	KBL 1,5-4/15	3565.2	ZRKD 2,5 DU-PE		
1015.2	RK 1,5-4	3566.2	ZRKD 2,5 N-PE		
1016.2	KBL 1,5-4	3567.2	ZSLD 2,5		
1018.2	RKB 4	3581.2	ZRK 6/2A BG		
1030.2	SRK 2,5	3584.2	ZSLN 2,5/2A		
1035.2	SRK 2,5/15	3586.2	ZSLN 2,5/2A/15		
1050.2	RK 16	3587.2	ZSRK 2,5/2A/RC BG		
1052.2	RK 35	3588.2	ZSRK 2,5/2A/D BG		
1120.2	RK 50	3589.2	ZSL 6/2A		
1122.2	RK 95	3590.2	ZIKD 2,5 BG		
1124.2	RK 150	3592.2	ZIKD 2,5 PE-L-L BG		
1126.2	RK 240	3592.5	ZIKD 2,5 PE-N-N BU		
1162.2	RK 16/Z BG	3594.2	ZIKD 2,5 PE-L-N BG		
1163.2	RK 35/Z BG	3595.2	ZSRK 2,5/2A/D/F BG		
1210.2	RK 2,5-4 ZR	3638.2	ZSLN 2,5/2A/D		
1211.2	RK 2,5-4ZRL	3639.2	ZSLN 2,5/2A/RC		
1320.2-1335.2	BKA 2,5(1 pole)	3640.2	ZSLN 2,5/2A/D/F		
1396.2	TRK 1,5/15 DS	3738.2	ZPL 1,5		
1397.2	TRK 1,5/15/DS/STB	3739.6	ZPL 1,5/BR		
2158.2	BKA 4(1 pole)	3742.5	ZPL 1,5/BL		
		3743.2	ZPL 1,5/PE GN		
<b>GL</b>					
1001.2	RK 2,5-4				
1005.2	RK 6-10				
1010.2	RK 1,5-4/15				
1015.2	RK 1,5-4				
1020.2	RKD 4				
1030.2	SRK 2,5				
1035.2	SRK 2,5/15				
1050.2	RK 16				
1052.2	RK 35				
1090.6	SK 1/32 KRG				
1091.6	SK 1/32 KRG				
1092.6	SK 1/35 KRG				
1093.6	SK 1/35 KRG				
1120.2	RK 50				
1122.2	RK 95				
1124.2	RK 150				
1126.2	RK 240				
1206.2	RKD 2,5				
1209.2	RKD 2,5 SV				
1390.2	TRK 1,5				
1392.2	TRK 1,5/15				
1394.2	TRK 1,5 DS				
1396.2	TRK 1,5/15 DS				
1511.2	RK 16/35 N				
1512.2	RK 35/35 N				
2250.6	RK 2,5/32 KRG				
2251.6	RK 4/32 KRG				
2252.6	RK 6/32 KRG				
2253.6	RK 10/32 KRG				
2254.6	RK 16/32 KRG				
2255.6	RK 35/32 KRG				
3500.2	ZRK 2,5/2A				
3501.2	ZRK 2,5/3A				
3502.2	ZRK 2,5/4A				
3510.2	ZSL 2,5/2A				
3511.2	ZSL 2,5/3A				
3512.2	ZSL 2,5/4A				
3515.2	ZRK 4/2A				
3516.2	ZRK 4/3A				
3517.2	ZRK 4/4A				
3525.2	ZSL 4/2A				
3526.2	ZSL 4/3A				
3527.2	ZSL 4/4A				
3528.2	ZIZA 1,5/3				
3529.2	ZIZA 1,5/3/B				
3532.2	ZIZA 1,5/3/PE				
3533.2	ZIZA 1,5/4				
3534.2	ZIZA 1,5/4/B				



Notes

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AD 1/240/B YE	2808.0	311	AP SID-1 BU	2187.5	278	AS 3/10 G M WH	2573.0212	354
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AD 1/5/N WH	2963.0	310	AP SR BG	2070.2	278	AS 3/10 G P WH	2573.0215	354
AD 1/5/N/B YE	2964.0	310	AP SR BU	2070.5	278	AS 3/10 G Q WH	2573.0216	354
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AD 1/6 WH	2965.0	310	AP SR OG	2070.3	278	AS 3/10 G S WH	2573.0218	354
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AD 120 YE	17026.8	313	AP VMAK 2,5 OG	2862.3	278	AS 3/10 G X WH	2573.0223	354
AD 16 YE	17019.8	312	AP/FF 1/15 BG	2421.2	278	AS 3/10 G Y WH	2573.0224	354
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AD 35 YE	17020.8	312	AP/SI-2 BU	2186.5	278	AS 3/10 GN	2571.1	354
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AD Q transparent	2499.0	315	AQI 10/6/17 YE	2143.0	293	BKA 10/1 BG	1497.2	95
AD Q WH	2499.7	315	AQI 10/8/18 YE	3443.8	293	BKA 10/1 BU	1497.5	95
Adapter BS-1	2000.0	413	AQI 2/10/18 YE	3991.8	293	BKA 10/1 Ex BG	1407.2	252
AG (pair)	4509.6	477	AQI 2/150 YE	2767.2	294	BKA 10/1 Ex BU	1407.5	252
AG (pair)	4510.3	467	AQI 2/240 YE	2769.2	294	BKA 10/10 BG	1508.2	95
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AH 50 transparent	2382.0	313	AQI 2/6/11 YE	2125.0	292	BKA 10/3 BG	1501.2	95
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AP 1,5-4 GN	2738.1	278	AQI 2/8/18 YE	3440.8	293	BKA 10/6 BG	1504.2	95
AP 1,5-4 OG	2738.3	278	AQI 2/95 YE	2765.2	294	BKA 10/7 BG	1505.2	95
AP 1,5-4 RD	2738.9	278	AQI 3/10/18 YE	3992.8	293	BKA 10/8 BG	1506.2	95
AP 1,5-4 YE	2738.8	278	AQI 3/150 YE	2768.2	294	BKA 10/9 BG	1507.2	95
AP 10 BG	2762.2	278	AQI 3/240 YE	2770.2	294	BKA 2,5/1 BG	1320.2	94
AP 10 BU	2762.5	278	AQI 3/5/11 YE	2033.0	292	BKA 2,5/1 BU	1320.5	94
AP 10 OG	2762.3	278	AQI 3/5/15 YE	2024.0	292	BKA 2,5/1 Ex BG	1405.2	252
AP 16 BG	2104.2	278	AQI 3/50 YE	2764.2	293	BKA 2,5/1 Ex BU	1405.5	252
AP 16 BU	2104.5	278	AQI 3/6/11 YE	2126.0	292	BKA 2,5/10 b.B. BG	1357.2	94
AP 16 OG	2104.3	278	AQI 3/6/17 YE	2065.0	293	BKA 2,5/10 BG	1327.2	94
AP 2,5/15 BG	2427.2	278	AQI 3/8/11 YE	2068.0	293	BKA 2,5/10 e.B. BG	1342.2	94
AP 2,5/15 BU	2427.5	278	AQI 3/8/18 YE	3441.8	293	BKA 2,5/12 b.B. BG	1358.2	94
AP 2,5/15 GN	2427.1	278	AQI 3/95 YE	2766.2	294	BKA 2,5/12 BG	1328.2	94
AP 2,5/15 OG	2427.3	278	AQI 4/10/18 YE	3993.8	293	BKA 2,5/12 e.B. BG	1343.2	94
AP 2,5/15 RD	2427.9	278	AQI 4/5/11 YE	2044.0	292	BKA 2,5/13 b.B. BG	1359.2	94
AP 2,5/15 YE	2427.8	278	AQI 4/5/15 YE	2028.0	292	BKA 2,5/13 BG	1329.2	94
AP 2,5/D BG	2831.2	278	AQI 4/6/11 YE	2140.0	292	BKA 2,5/13 e.B. BG	1344.2	94
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AP 2,5/I BU	2698.5	278	AQI 4/8/11 YE	2069.0	293	BKA 2,5/14 BG	1330.2	94
AP 2,5/I OG	2698.3	278	AQI 4/8/18 YE	3442.8	293	BKA 2,5/14 e.B. BG	1345.2	94
AP 2,5/ID BG	2699.2	278	AQI 50/10/18 YE	3995.8	293	BKA 2,5/15 b.B. BG	1361.2	94
AP 2,5/ID BG	2699.2	278	AQI 60/8/18 YE	3444.8	293	BKA 2,5/15 BG	1331.2	94
AP 2,5/ID BU	2699.5	278	AQI 75/6/11 YE	2481.0	292	BKA 2,5/15 e.B. BG	1346.2	94
AP 2,5/ID OG	2699.3	278	AQI 75/6/17 YE	2480.0	293	BKA 2,5/16 b.B. BG	1362.2	94
AP 2,5/RL BG	2575.2	278	AQI 95/5/11 YE	2107.0	292	BKA 2,5/16 BG	1332.2	94
AP 2,5/RL BU	2575.5	278	AQI 95/5/15 YE	2030.0	292	BKA 2,5/16 e.B. BG	1347.2	94
AP 2,5/RL GN	2575.1	278	AQV 2 PE/N 10	2181.0	295	BKA 2,5/18 b.B. BG	1363.2	94
AP 2,5/RL OG	2575.1	278	AQV 2 PE/N 16	2182.0	295	BKA 2,5/18 BG	1333.2	94
AP 2,5/S BG	2829.2	278	AQV 2 PE/N 35	2183.0	295	BKA 2,5/18 e.B. BG	1348.2	94
AP 2,5-10 BG	2001.2	278	AS 3/10 BU	2571.5	354	BKA 2,5/2 b.B. BG	1351.2	94
AP 2,5-10 BU	2001.5	278	AS 3/10 G - WH	2573.0420	354	BKA 2,5/2 BG	1321.2	94
AP 2,5-10 GN	2001.1	278	AS 3/10 G - WH	2573.0408	354	BKA 2,5/2 e.B. BG	1336.2	94
AP 2,5-10 OG	2001.3	278	AS 3/10 G + WH	2573.0419	354	BKA 2,5/20 b.B. BG	1364.2	94
AP 2,5-10 RD	2001.9	278	AS 3/10 G O WH	2573.0000	354	BKA 2,5/20 BG	1334.2	94
AP 2,5-10 YE	2001.8	278	AS 3/10 G 1 WH	2573.0001	354	BKA 2,5/20 e.B. BG	1349.2	94
AP 2,5-4/R BG	2574.2	278	AS 3/10 G 2 WH	2573.0002	354	BKA 2,5/24 b.B. BG	1365.2	94
AP 2,5-4/R BU	2574.5	278	AS 3/10 G 3 WH	2573.0003	354	BKA 2,5/24 BG	1335.2	94
AP 2,5-4/R GN	2574.1	278	AS 3/10 G 4 WH	2573.0004	354	BKA 2,5/24 e.B. BG	1350.2	94
AP 35 BG	2116.2	278	AS 3/10 G 5 WH	2573.0005	354	BKA 2,5/3 b.B. BG	1352.2	94
AP 35 BU	2116.5	278	AS 3/10 G 6 WH	2573.0006	354	BKA 2,5/3 BG	1322.2	94
AP 35 OG	2116.3	278	AS 3/10 G 7 WH	2573.0007	354	BKA 2,5/3 e.B. BG	1337.2	94
AP 4 800 V BG	2159.2	278	AS 3/10 G 8 WH	2573.0008	354	BKA 2,5/4 b.B. BG	1353.2	94
AP 4 BG	2101.2	278	AS 3/10 G 9 WH	2573.0009	354	BKA 2,5/4 BG	1323.2	94
AP 4 BU	2101.5	278	AS 3/10 G A WH	2573.0200	354	BKA 2,5/4 e.B. BG	1338.2	94
			AS 3/10 G B WH	2573.0201	354	BKA 2,5/5 b.B. BG	1354.2	94

Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
BAK 2,5/5 BG	1324.2	94	BW 6 (ZRK)	3802.0	329	CK 1818/111 OV	4273.3	438
BAK 2,5/5 e.B. BG	1339.2	94	BW 7 (FRK)	3837.0	329	CK 1818/111 OVT	4275.3	438
BAK 2,5/6 b.B. BG	1355.2	94	BW 7 (ZRK)	3803.0	329	CK 1818/165 MV	4354.3	438
BAK 2,5/6 BG	1325.2	94	BW 8 (FRK)	3838.0	329	CK 1818/165 MVT	4355.3	438
BAK 2,5/6 e.B. BG	1340.2	94	BW 8 (ZRK)	3804.0	329	CK 1818/165 OV	4277.3	438
BAK 2,5/8 b.B. BG	1356.2	94	BW 9 (FRK)	3839.0	329	CK 1818/165 OVT	4279.3	438
BAK 2,5/8 BG	1326.2	94	BW 9 (ZRK)	3805.0	329	CK 1818/90 MV	4350.3	438
BAK 2,5/8 e.B. BG	1341.2	94	BWMA 1 (0.5 x 2.5 mm)	3841.0	328	CK 1818/90 MVT	4351.3	438
BAK 4/1 BG	2158.2	95	BWMA 1 (0.5 x 3.5 mm)	3808.0	328	CK 1818/90 OV	4269.3	438
BAK 4/1 BU	2158.5	95	<b>C</b>			CK 1818/90 OVT	4271.3	438
BAK 4/1 Ex BG	1406.2	252	CA 122/80	4007.0	474	CK 2518/111 MV	4362.3	438
BAK 4/1 Ex BU	1406.5	252	CA 125/57	4004.0	474	CK 2518/111 MVT	4363.3	438
BAK 4/10 b.B. BG	2349.2	95	CA 150/34	4005.0	474	CK 2518/111 OV	4289.3	438
BAK 4/10 BG	2176.2	95	CA 160/90	4010.0	474	CK 2518/111 OVT	4291.3	438
BAK 4/10 e.B. BG	2334.2	95	CA 175/57	4006.0	474	CK 2518/165 MV	4364.3	438
BAK 4/12 b.B. BG	2350.2	95	CA 200/110	4016.0	474	CK 2518/165 MVT	4365.3	438
BAK 4/12 BG	2177.2	95	CA 220/80	4008.0	474	CK 2518/165 OV	4293.3	438
BAK 4/12 e.B. BG	2335.2	95	CA 220/90	4009.0	474	CK 2518/165 OVT	4295.3	438
BAK 4/13 b.B. BG	2351.2	95	CA 250/52	4014.0	474	CK 2518/215 OV	4297.3	438
BAK 4/13 e.B. BG	2336.2	95	CA 260/90	4011.0	474	CK 2518/215 OVT	4299.3	438
BAK 4/14 b.B. BG	2352.2	95	CA 280/100	4438.0	474	CK 2518/63 MV	4356.3	438
BAK 4/14 BG	1036.2	95	CA 280/110	4017.0	474	CK 2518/63 MVT	4357.3	438
BAK 4/14 e.B. BG	2337.2	95	CA 330/110	4018.0	474	CK 2518/63 OV	4194.3	438
BAK 4/15 b.B. BG	2353.2	95	CA 330/180	4019.0	474	CK 2518/63 OVT	4195.3	438
BAK 4/15 BG	2178.2	95	CA 360/80	4015.0	474	CK 2518/84 MV	4358.3	438
BAK 4/15 e.B. BG	2338.2	95	CA 360/90	4012.0	474	CK 2518/84 MVT	4359.3	438
BAK 4/16 b.B. BG	2354.2	95	CA 50/30	4000.0	474	CK 2518/84 OV	4196.3	438
BAK 4/16 BG	1037.2	95	CA 560/90	4013.0	474	CK 2518/84 OVT	4197.3	438
BAK 4/16 e.B. BG	2339.2	95	CA 58/34	4001.0	474	CK 2518/90 MV	4360.3	438
BAK 4/18 b.B. BG	2355.2	95	CA 75/57	4003.0	474	CK 2518/90 MVT	4361.3	438
BAK 4/18 BG	1038.2	95	CA 98/34	4002.0	474	CK 2518/90 OV	4285.3	438
BAK 4/18 e.B. BG	2340.2	95	CCI-1	1597.0	409	CK 2518/90 OVT	4287.3	438
BAK 4/2 b.B. BG	2343.2	95	CCI-10	1606.0	410	CK 3625/111 MV	4366.3	438
BAK 4/2 BG	2170.2	95	CCI-11	1607.0	410	CK 3625/111 MVT	4367.3	438
BAK 4/2 e.B. BG	2308.2	95	CCI-15	88520.8	410	CK 3625/111 OV	4301.3	438
BAK 4/20 b.B. BG	2356.2	95	CCI-17	88520.0	410	CK 3625/111 OVT	4303.3	438
BAK 4/20 BG	2179.2	95	CCI-18	88520.1	410	CK 3625/165 MV	4368.3	438
BAK 4/20 e.B. BG	2341.2	95	CCI-19	88520.2	410	CK 3625/165 MVT	4369.3	438
BAK 4/24 b.B. BG	2357.2	95	CCI-3	1593.0	410	CK 3625/165 OV	4305.3	438
BAK 4/24 BG	1039.2	95	CCI-4	1600.0	410	CK 3625/165 OVT	4307.3	438
BAK 4/24 e.B. BG	2342.2	95	CCI-5	1601.0	410	CK 77/57 MV	4316.3	438
BAK 4/3 b.B. BG	2344.2	95	CCI-6	1602.0	410	CK 77/57 MVT	4317.3	438
BAK 4/3 BG	2171.2	95	CCI-7	1603.0	410	CK 77/57 OV	4201.3	438
BAK 4/3 e.B. BG	2309.2	95	CCI-8	1604.0	410	CK 77/57 OVT	4203.3	438
BAK 4/4 b.B. BG	2345.2	95	CK 1111/66 MV	4328.3	438	CK 77/81 MV	4318.3	438
BAK 4/4 BG	2172.2	95	CK 1111/66 MVT	4329.3	438	CK 77/81 MVT	4319.3	438
BAK 4/4 e.B. BG	2330.2	95	CK 1111/66 OV	4225.3	438	CK 77/81 OV	4205.3	438
BAK 4/5 b.B. BG	2346.2	95	CK 1111/66 OVT	4227.3	438	CK 77/81 OVT	4207.3	438
BAK 4/5 BG	2173.2	95	CK 1111/90 MV	4330.3	438	CK 97/57 MV	4320.3	438
BAK 4/5 e.B. BG	2331.2	95	CK 1111/90 MVT	4331.3	438	CK 97/57 MVT	4321.3	438
BAK 4/6 b.B. BG	2347.2	95	CK 1111/90 OV	4229.3	438	CK 97/57 OV	4209.3	438
BAK 4/6 BG	2174.2	95	CK 1111/90 OVT	4231.3	438	CK 97/57 OVT	4211.3	438
BAK 4/6 e.B. BG	2332.2	95	CK 1309/57 MV	4332.3	438	CK 97/81 MV	4322.3	438
BAK 4/8 b.B. BG	2348.2	95	CK 1309/57 MVT	4333.3	438	CK 97/81 MVT	4323.3	438
BAK 4/8 BG	2175.2	95	CK 1309/57 OV	4233.3	438	CK 97/81 OV	4213.3	438
BAK 4/8 e.B. BG	2333.2	95	CK 1309/57 OVT	4235.3	438	CK 97/81 OVT	4215.3	438
BLS-STL GN	13284.1	135	CK 1309/81 MV	4334.3	438	CK 99/57 MV	4324.3	438
BS 25 GN	2242.0	327	CK 1309/81 MVT	4335.3	438	CK 99/57 MVT	4325.3	438
BS 25 without cap	2240.0	327	CK 1309/81 OV	4237.3	438	CK 99/57 OV	4217.3	438
BS 25 VT	2243.0	327	CK 1309/81 OVT	4239.3	438	CK 99/57 OVT	4219.3	438
BS 25 YE	2241.0	327	CK 1313/75 MV	4336.3	438	CK 99/81 MV	4326.3	438
BS AD/M 2,9x6,5	2385.0	313	CK 1313/75 MVT	4337.3	438	CK 99/81 MVT	4327.3	438
BS M 2,5x10	2326.0	297	CK 1313/75 OV	4241.3	438	CK 99/81 OV	4221.3	438
BS M 2,5x14	2086.0	297	CK 1313/75 OVT	4243.3	438	CK 99/81 OVT	4223.3	438
BS M 2,5x20	2078.0	291	CK 1313/99 MV	4338.3	438	CK-PC 1111/66 MV	4384.2	446
BS M 3x15 w. SS	2284.0	297	CK 1313/99 MVT	4339.3	438	CK-PC 1111/66 MVT	4385.2	446
BS M 3x20	2018.0	297	CK 1313/99 OV	4245.3	438	CK-PC 1111/90 MV	4386.2	446
BS M 3x25	2010.0	291	CK 1313/99 OVT	4247.3	438	CK-PC 1111/90 MVT	4387.2	446
BS M 3x5	4556.0	455	CK 1809/57 MV	4340.3	438	CK-PC 1309/57 MV	4388.2	446
BS M 3x6	2365.0	297	CK 1809/57 MVT	4341.3	438	CK-PC 1309/57 MVT	4389.2	446
BS M 4x30	2123.0	291	CK 1809/57 OV	4249.3	438	CK-PC 1309/81 MV	4390.2	446
BS M 4x5	4557.0	476	CK 1809/57 OVT	4251.3	438	CK-PC 1309/81 MVT	4391.2	446
BS M 4x8	2262.0	232	CK 1809/81 MV	4342.3	438	CK-PC 1313/75 MV	4392.2	446
BS M 5x8/IS	2415.0	272	CK 1809/81 MVT	4343.3	438	CK-PC 1313/75 MVT	4393.2	446
BS M 6x12/IS	2304.0	272	CK 1809/81 OV	4253.3	438	CK-PC 1313/99 MV	4394.2	446
BS M 6x8	4558.0	477	CK 1809/81 OVT	4255.3	438	CK-PC 1313/99 MVT	4395.2	446
BS-1	2034.0	413	CK 1811/111 MV	4346.3	438	CK-PC 1809/57 MV	4396.2	446
BSK M 2,5x22	2080.0	296	CK 1811/111 MVT	4347.3	438	CK-PC 1809/57 MVT	4397.2	446
BSK M 3x22	2012.0	296	CK 1811/111 OV	4261.3	438	CK-PC 1809/81 MV	4398.2	446
BW 1 (FRK)	3831.0	329	CK 1811/111 OVT	4263.3	438	CK-PC 1809/81 MVT	4399.2	446
BW 1 (ZRK)	3778.0	328	CK 1811/165 MV	4348.3	438	CK-PC 1811/111 MV	4402.2	446
BW 10 (FRK)	3840.0	329	CK 1811/165 MVT	4349.3	438	CK-PC 1811/111 MVT	4403.2	446
BW 10 (ZRK)	3806.0	329	CK 1811/165 OV	4265.3	438	CK-PC 1811/165 MV	4404.2	446
BW 2 (FRK)	3832.0	329	CK 1811/165 OVT	4267.3	438	CK-PC 1811/165 MVT	4405.2	446
BW 2 (ZRK)	3779.0	328	CK 1811/90 MV	4344.3	438	CK-PC 1811/90 MV	4400.2	446
BW 3 (FRK)	3833.0	329	CK 1811/90 MVT	4345.3	438	CK-PC 1811/90 MVT	4401.2	446
BW 3 (ZRK)	3780.0	328	CK 1811/90 OV	4257.3	438	CK-PC 1818/111 MV	4408.2	446
BW 4 (FRK)	3834.0	329	CK 1811/90 OVT	4259.3	438	CK-PC 1818/111 MVT	4409.2	446
BW 4 (ZRK)	3781.0	328	CK 1818/111 MV	4352.3	438	CK-PC 1818/165 MV	4410.2	446
BW 5 (FRK)	3835.0	329	CK 1818/111 MVT	4353.3	438	CK-PC 1818/165 MVT	4411.2	446
BW 5 (ZRK)	3782.0	328	CK 1818/111 OV	4253.3	438	CK-PC 1818/90 MV	4406.2	446
BW 6 (FRK)	3836.0	329	CK 1818/111 OVT	4255.3	438			

Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
CK-PC 1818/90 MVT	4407.2	446	CT 160/8	4086.3	466	EKB 1,5/6 DS transparent	1811.0	224
CK-PC 2518/111 MV	4422.2	446	CT 200/12	4089.3	466	EKB 1,5/6 transparent	1969.0	224
CK-PC 2518/111 MVT	4423.2	446	CT 200/15	4090.3	466	EKB 1,5/7 DS transparent	1812.0	224
CK-PC 2518/165 MV	4424.2	446	CT 240	4091.3	466	EKB 1,5/7 transparent	1970.0	224
CK-PC 2518/165 MVT	4425.2	446	CT 240/12	4093.3	466	EKB 1,5/8 DS transparent	1813.0	224
CK-PC 2518/63 MV	4412.2	446	CT 240/9	4092.3	466	EKB 1,5/8 transparent	1971.0	224
CK-PC 2518/63 MVT	4414.2	446	CT 52	4080.3	466	EKB 1,5/9 DS transparent	1814.0	224
CK-PC 2518/84 MV	4416.2	446	CT 82/5	4081.3	466	EKB 1,5/9 transparent	1972.0	224
CK-PC 2518/84 MVT	4418.2	446	CT 82/8	4082.3	466	EKB 10/1 DS transparent	1842.0	225
CK-PC 2518/90 MV	4420.2	446	CTS 4,6/127	3436.0	393	EKB 10/1 transparent	1750.0	225
CK-PC 2518/90 MVT	4421.2	446	CTS 4,6/150	3437.0	393	EKB 10/10 DS transparent	1851.0	225
CK-PC 3625/111 MV	4428.2	446	CTS 4,6/200	3438.0	393	EKB 10/10 transparent	1759.0	225
CK-PC 3625/111 MVT	4429.2	446	CTS 4,6/360	3439.0	393	EKB 10/11 DS transparent	1852.0	225
CK-PC 3625/165 MV	4430.2	446				EKB 10/11 transparent	1760.0	225
CK-PC 3625/165 MVT	4431.2	446				EKB 10/12 DS transparent	1853.0	225
CK-PC 75/35 MV	4370.2	446				EKB 10/12 transparent	1761.0	225
CK-PC 75/35 MVT	4371.2	446	D1.5/2 LG	3980.0	222	EKB 10/2 DS transparent	1843.0	225
CK-PC 77/57 MV	4372.2	446	D1.5/3 LG	3981.0	222	EKB 10/2 transparent	1751.0	225
CK-PC 77/57 MVT	4373.2	446	D1.5/4 LG	3982.0	222	EKB 10/3 DS transparent	1844.0	225
CK-PC 77/81 MV	4374.2	446	D1.5/5 LG	3983.0	223	EKB 10/3 transparent	1752.0	225
CK-PC 77/81 MVT	4375.2	446	D1.5/8 LG	3984.0	223	EKB 10/4 DS transparent	1845.0	225
CK-PC 97/57 MV	4376.2	446	D2.5/2 DG	3985.4	222	EKB 10/4 transparent	1753.0	225
CK-PC 97/57 MVT	4377.2	446	D2.5/3 DG	3986.4	222	EKB 10/5 DS transparent	1846.0	225
CK-PC 97/81 MV	4378.2	446	D2.5/4 DG	3987.4	222	EKB 10/5 transparent	1754.0	225
CK-PC 97/81 MVT	4379.2	446	D2.5/5 DG	3988.4	223	EKB 10/6 DS transparent	1847.0	225
CK-PC 99/57 MV	4380.2	446	D2.5/8 DG	3989.4	223	EKB 10/6 transparent	1755.0	225
CK-PC 99/57 MVT	4381.2	446	D4.0/3 LG	3990.0	223	EKB 10/7 DS transparent	1848.0	225
CK-PC 99/81 MV	4382.2	446	DLI 2,5 B-D BG	1449.2	87	EKB 10/7 transparent	1756.0	225
CK-PC 99/81 MVT	4383.2	446	DLI 2,5 B-W BG	1448.2	87	EKB 10/8 DS transparent	1849.0	225
CM 120/5	4043.2	466	DLI 2,5 L BG	1423.2	85	EKB 10/8 transparent	1757.0	225
CM 120/5 DT	4063.2	466	DLI 2,5 L/L BG	1421.2	85	EKB 10/9 DS transparent	1850.0	225
CM 120/8	4044.2	466	DLI 2,5 L/N BG	1420.2	85	EKB 10/9 transparent	1758.0	225
CM 120/8 DT	4064.2	466	DLI 2,5 N BG	1422.2	85	EKB 2,5/1 DS transparent	1818.0	224
CM 122/5	4047.2	466	DLI 2,5 PE/L/L BG	1419.2	84	EKB 2,5/1 transparent	1976.0	225
CM 122/5 DT	4067.2	466	DLI 2,5 PE/L/N BG	1418.2	84	EKB 2,5/10 DS transparent	1827.0	224
CM 122/8	4048.2	466	DLI 2,5 PE/L/NT BG	1417.2	84	EKB 2,5/10 transparent	1985.0	225
CM 122/8 DT	4068.2	466	DLIS 2,5 B-3L/3N/3PE BG	2715.2	86	EKB 2,5/11 DS transparent	1828.0	224
CM 160/5	4045.2	466	DLIS 2,5 B-3L/N/PE BG	2716.2	87	EKB 2,5/11 transparent	1986.0	225
CM 160/5 DT	4065.2	466	DLIS 2,5 B-6L BG	2717.2	87	EKB 2,5/12 DS transparent	1829.0	224
CM 160/8	4046.2	466	DLIS 2,5 B-6L/3PE BG	2718.2	87	EKB 2,5/12 transparent	1987.0	225
CM 160/8 DT	4066.2	466	DLIS 2,5 B-D BG	1447.2	86	EKB 2,5/2 DS transparent	1819.0	224
CM 200/12	4049.2	466	DLIS 2,5 B-W BG	1446.2	86	EKB 2,5/2 transparent	1977.0	225
CM 200/12 DT	4069.2	466	DLIS 2,5 L BG	1416.2	83	EKB 2,5/3 DS transparent	1820.0	224
CM 200/15	4050.2	466	DLIS 2,5 L/L BG	1414.2	83	EKB 2,5/3 transparent	1978.0	225
CM 200/15 DT	4070.2	466	DLIS 2,5 L/N BG	1413.2	83	EKB 2,5/4 DS transparent	1821.0	224
CM 240	4051.2	466	DLIS 2,5 N BG	1415.2	83	EKB 2,5/4 transparent	1979.0	225
CM 240/12	4053.2	466	DLIS 2,5 PE/L/L BG	1412.2	83	EKB 2,5/5 DS transparent	1822.0	224
CM 240/12 DT	4073.2	466	DLIS 2,5 PE/L/N BG	1411.2	83	EKB 2,5/5 transparent	1980.0	225
CM 240/9	4052.2	466	DLIS 2,5 PE/L/NT BG	1410.2	83	EKB 2,5/6 DS transparent	1823.0	224
CM 240/9 DT	4072.2	466	DM/M16	4160.2	487	EKB 2,5/6 transparent	1981.0	225
CM 240/DT	4071.2	466	DM/M20	4161.2	487	EKB 2,5/7 DS transparent	1824.0	224
CM 52	4040.2	466	DM/M25	4162.2	487	EKB 2,5/7 transparent	1982.0	225
CM 52/DT	4060.2	466	DM/M32	4163.2	487	EKB 2,5/8 DS transparent	1825.0	224
CM 82/5	4041.2	466	DS 1/TRK 1,5 YE	1400.2	323	EKB 2,5/8 transparent	1983.0	225
CM 82/5 DT	4061.2	466	DS 2/TRK 1,5 YE	1401.2	323	EKB 2,5/9 DS transparent	1826.0	224
CM 82/8	4042.2	466	DS 3/TRK 1,5 YE	1402.2	323	EKB 2,5/9 transparent	1984.0	225
CM 82/8 DT	4062.2	466	DS 4/TRK 1,5 YE	1403.2	323	EKB 4/1 DS transparent	1830.0	225
CP 110/55	4021.1	454	Dust protection hood EMS-2 DIN A 3	1648.0	409	EKB 4/1 transparent	1988.0	225
CP 110/75	4434.1	454	Dust protection hood EMS-2 DIN A 4	1687.0	409	EKB 4/10 DS transparent	1839.0	225
CP 122/90	4024.1	454				EKB 4/10 transparent	1997.0	225
CP 160/55	4022.1	454				EKB 4/11 DS transparent	1840.0	225
CP 160/75	4435.1	454				EKB 4/11 transparent	1998.0	225
CP 160/90	4025.1	454				EKB 4/12 DS transparent	1841.0	225
CP 190/55	4023.1	454				EKB 4/12 transparent	1999.0	225
CP 190/75	4436.1	454				EKB 4/2 DS transparent	1831.0	225
CP 220/90	4026.1	454				EKB 4/2 transparent	1989.0	225
CP 230/55	4437.1	454				EKB 4/3 DS transparent	1832.0	225
CP 230/75	4198.1	454				EKB 4/3 transparent	1990.0	225
CP 255/120	4029.1	454				EKB 4/4 DS transparent	1833.0	225
CP 260/90	4027.1	454				EKB 4/4 transparent	1991.0	225
CP 360/90	4028.1	454				EKB 4/5 DS transparent	1834.0	225
CP 400/120	4030.1	454				EKB 4/5 transparent	1992.0	225
CP 400/120-2	4031.1	454				EKB 4/6 DS transparent	1835.0	225
CP 55/37	4432.1	454				EKB 4/6 transparent	1993.0	225
CP 55/59	4433.1	454				EKB 4/7 DS transparent	1836.0	225
CP 80/55	4020.1	454				EKB 4/7 transparent	1994.0	225
CP 80/75	4439.1	454				EKB 4/8 DS transparent	1837.0	225
CS 0,5 A BU	3170.5	322				EKB 4/8 transparent	1995.0	225
CS 1 A BK	3170.4	322				EKB 4/9 DS transparent	1838.0	225
CS 10 A RD	3170.9	322				EKB 4/9 transparent	1996.0	225
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CS 20 A YE	3170.8	322				EKBBS 1,5/11 transparent	17060.0	227
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CS 5 A LB	3170.2	322				EKBBS 1,5/3 transparent	17052.0	227
CS 7,5 A BN	3170.6	322				EKBBS 1,5/4 transparent	17053.0	227
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CT 160/5	4085.3	466				EKBBS 1,5/9 transparent	17058.0	227

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GMP 18/9 R SI/BK	1663.0	406
GMP 18/9 R WH/BK	1662.0	406
GMP 19/45 R SI/BK	1667.0	406
GMP 200/300 SI/BK	1677.0	406
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GMP 25/60 R WH/BK	1666.0	406
GMP 27/12,5 R SI/BK	1669.0	406
GMP 27/12,5 R WH/BK	1668.0	406
GMP 27/18 R RD/WH	1690.0	406
GMP 27/18 R SI/BK	1671.0	406
GMP 27/18 R WH/BK	1670.0	406
GMP 27/27 R SI/BK	1673.0	406
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GMP 45/14 R SI/BK	1679.0	406
GMP 50/20 R RD/WH	1691.0	406
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GMP 70/35 R SI/BK	1675.0	406
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Graver cutter for aluminium, 0.2 mm	1635.0	409
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Graver cutter for aluminium, 0.6 mm	1637.0	409
Graver cutter for aluminium, 1.0 mm	1638.0	409
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Graver cutter for aluminium, 2.0 mm	1688.0	409
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Graver set for plastic, 0.2 mm	1623.0	409
Graver set for plastic, 0.3 mm	1624.0	409
Graver set for plastic, 0.4 mm	1625.0	409
Graver set for plastic, 0.5 mm	1626.0	409
Graver set for plastic, 0.7 mm	1627.0	409
Graver set for plastic, 1.00 mm	1628.0	409
Graver set for plastic	1629.0	409
GST-H 27x12,5 BK	9803.4	399
GST-H 27x18 BK	9804.4	399
GST-H 27x27 BK	9805.4	399
GST-H 27x8 BK	9802.4	399
GSU-H 17x15 BK	3827.4	400
GSU-H 27x15 BK	3828.4	400
GSU-H 49x15 BK	3829.4	401
GSU-H 60x15 BK	3830.4	401
GSU-H 60x30 BK	3850.4	401
GSU-H 85,4x54 BK	3851.4	401
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H 0,25/10 LB	2620.0	428
H 0,25/10-T YE	3123.0	429
H 0,25/12 LB	2621.0	428
H 0,25/12-T YE	3124.0	429
H 0,25/5	3096.0	432
H 0,34/10 CY	2622.0	428
H 0,34/10-T GN	3125.0	429
H 0,34/12 CY	2623.0	428
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H 0,5/10	3097.0	432
H 0,5/12 OG	2397.0	428
H 0,5/12-D WH	2863.0	429
H 0,5/14 AWG OG	3077.0	430
H 0,5/14 OG	2201.0	428
H 0,5/14-D AWG WH	3090.0	431
H 0,5/14-D WH	2864.0	429
H 0,5/16 OG	3116.0	428
H 0,5/16-D WH	2865.0	429
H 0,5/6	2216.0	432
H 0,75/10	2218.0	432
H 0,75/12 WH	2398.0	428
H 0,75/12-D GR	2866.0	429
H 0,75/12-T BU	3127.0	429
H 0,75/14 AWG WH	3078.0	430
H 0,75/14 WH	2202.0	428
H 0,75/14-D AWG GR	3091.0	431
H 0,75/14-D GR	2867.0	429
H 0,75/14-T AWG LB	3094.0	431
H 0,75/14-T BU	1059.0	429
H 0,75/16 WH	3117.0	428
H 0,75/16-D GR	2868.0	429
H 0,75/16-T BU	3128.0	429
H 0,75/18 WH	3118.0	428
H 0,75/18-D GR	2869.0	429
H 0,75/18-T BU	3129.0	429
H 0,75/6	2217.0	432
H 1,0/10	2220.0	432
H 1,0/12 YE	2399.0	428
H 1,0/12-D RD	2870.0	429
H 1,0/14 AWG YE	3079.0	430
H 1,0/14 YE	2203.0	428
H 1,0/14-D AWG RD	3092.0	431
H 1,0/14-D RD	2871.0	429
H 1,0/16 YE	3119.0	428
H 1,0/16-D RD	2872.0	429
H 1,0/18 YE	3120.0	428

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H 1,0/6	2219.0	432	H 4,0/9	2225.0	432	HZL/0,75 HL-D GR	2795.0	431
H 1,5/10	2222.0	432	H 50,0/18	3112.0	432	HZL/0,75-D GR	2775.0	431
H 1,5/12	3098.0	432	H 50,0/25	3113.0	432	HZL/1,0 HL-D RD	2796.0	431
H 1,5/14 AWG RD	3080.0	430	H 50,0/32	2816.0	432	HZL/1,0-D RD	2776.0	431
H 1,5/14 RD	2204.0	428	H 50,0/36 OL	2500.0	428	HZL/1,5 HL-D BK	2797.0	431
H 1,5/14-D AWG BK	3093.0	431	H 50,0/36-D BU	2861.0	429	HZL/1,5-D BK	2777.0	431
H 1,5/14-D BK	2841.0	429	H 50,0/41-D BU	3122.0	429	HZL/10,0-D RD	2801.0	431
H 1,5/16 RD	2400.0	428	H 6,0/12	2227.0	432	HZL/16,0-D BU	2802.0	431
H 1,5/16-D BK	2842.0	429	H 6,0/15	2388.0	432	HZL/2,5 HL-D BU	2798.0	431
H 1,5/17,5 KS BK	3082.0	430	H 6,0/15	3104.0	432	HZL/2,5-D BU	2778.0	431
H 1,5/18	3099.0	432	H 6,0/18	3105.0	432	HZL/4,0-D GR	2799.0	431
H 1,5/18 RD	2814.0	428	H 6,0/20 BK	2210.0	428	HZL/6,0-D YE	2800.0	431
H 1,5/18-D BK	2843.0	429	H 6,0/20-D YE	2851.0	429			
H 1,5/19,5 KS BK	3083.0	430	H 6,0/20-T GN	2130.0	429			
H 1,5/24 RD	2205.0	428	H 6,0/23 KS YE	3087.0	430	IH 2,8	2435.0	213
H 1,5/24-D BK	2844.0	429	H 6,0/26 BK	2211.0	428	IH 6,3	2429.0	213
H 1,5/7	2221.0	432	H 6,0/26-D YE	2852.0	429	IK 2,5 PNP/AC/LED(GN)220V BG	1276.2	61
H 10,0/12	2228.0	432	H 6,0/26-T GN	2133.0	429	IK 2,5 BG	1260.2	61
H 10,0/15	2389.0	432	H 70,0/25	2790.0	432	IK 2,5 NPN/AC/LED(GN)/220V BG	1282.2	61
H 10,0/18	2229.0	432	H 70,0/32	3114.0	432	IK 2,5 NPN/AC/LED(RD)/220V BG	1281.2	61
H 10,0/22 IV	2212.0	428	H 70,0/37 YE	2786.0	428	IK 2,5 NPN/DC/LED(GN)/24V BG	1265.2	61
H 10,0/22-D RD	2853.0	429	H 95,0/25	3115.0	432	IK 2,5 NPN/DC/LED(GN)/48V BG	1278.2	61
H 10,0/22-T BN	2134.0	429	H 95,0/32	2791.0	432	IK 2,5 NPN/DC/LED(GN)/60V BG	1280.2	61
H 10,0/24 KS RD	3088.0	430	H 95,0/44 RD	2787.0	428	IK 2,5 NPN/DC/LED(RD)/ 60V BG	1279.2	61
H 10,0/28 IV	2213.0	428	HES 32/ST BG	2760.0	275	IK 2,5 NPN/DC/LED(RD)/24V BG	1264.2	61
H 10,0/28-D RD	2854.0	429	HES 35/ST BG	2761.0	275	IK 2,5 NPN/DC/LED(RD)/48V BG	1277.2	61
H 10,0/28-T BN	2144.0	429	HP 0.25 mm	1316.0	412	IK 2,5 PNP/AC/LED(RD)/220V BG	1275.2	61
H 120,0/32	2792.0	432	HP 0.35 mm	1317.0	412	IK 2,5 PNP/DC/LED(GN)/24V BG	1263.2	61
H 120,0/50 BU	2788.0	428	HP 0.50 mm	1318.0	413	IK 2,5 PNP/DC/LED(GN)/48V BG	1272.2	61
H 150,0/32	2793.0	432	HP 0.70 mm	1319.0	413	IK 2,5 NPN/DC/LED(GN)/60V BG	1274.2	61
H 150,0/54 YE	2789.0	428	HP 10x3 BU	2576.5	88	IK 2,5 PNP/DC/LED(RD)/24V BG	1262.2	61
H 16,0/12	2391.0	432	HP 6x6 BU	2577.5	88	IK 2,5 PNP/DC/LED(RD)/48V BG	1271.2	61
H 16,0/15	2392.0	432	HP DLI5 BU	2890.5	83	IK 2,5 PNP/DC/LED(RD)/60V BG	1273.2	61
H 16,0/18	2393.0	432	HSK 120/M10 B BG	17003.2	191	IKD 2,5 BG	1261.2	56
H 16,0/22 GN	2214.0	428	HSK 120/M10 B/B BG	17007.2	191	IKD 2,5 BG	1261.2	60
H 16,0/22 IV	2145.0	429	HSK 120/M12 B BG	17004.2	191	IKD 2,5 BU	1261.5	56
H 16,0/24-D BU	2855.0	429	HSK 150 B BG	1176.2	196	IKD 2,5 BU	1261.5	60
H 16,0/25	3106.0	432	HSK 150 B/B BG	1172.2	197	IKD 2,5 F/Q BG	2269.2	57
H 16,0/25,5 KS BU	3089.0	430	HSK 16/M5 B BG	17000.2	190	IKD 2,5 F/Q BG	2269.2	60
H 16,0/28 GN	2215.0	428	HSK 240 B BG	1177.2	197	IKD 2,5 NPN/AC/LED(GN)/220V BG	1366.2	61
H 16,0/28-D BU	2856.0	429	HSK 240 B/B BG	1173.2	197	IKD 2,5 NPN/AC/LED(RD)/220V BG	1267.2	61
H 16,0/28-T IV	2510.0	429	HSK 35/M6 B BG	17001.2	190	IKD 2,5 NPN/DC/LED(GN)/24V BG	1290.2	61
H 16,0/32	3107.0	432	HSK 35/M6 B/B BG	17005.2	191	IKD 2,5 NPN/DC/LED(GN)/48V BG	1292.2	61
H 2,5/10	3100.0	432	HSK 50/M8 B BG	17002.2	190	IKD 2,5 NPN/DC/LED(GN)/60V BG	1294.2	61
H 2,5/12	2224.0	432	HSK 50/M8 B/B BG	17006.2	191	IKD 2,5 NPN/DC/LED(RD)/24V BG	1289.2	61
H 2,5/14 SR GR	3095.0	431	HSK 70 B BG	1174.2	196	IKD 2,5 NPN/DC/LED(RD)/48V BG	1291.2	61
H 2,5/14-D BU	2845.0	429	HSK 70 B/B BG	1170.2	197	IKD 2,5 NPN/DC/LED(RD)/60V BG	1293.2	61
H 2,5/14-D BU	2845.0	429	HSK 95 B BG	1175.2	196	IKD 2,5 PNP/AC/LED(GN)/220V BG	1299.2	61
H 2,5/14-D SR BU	3081.0	431	HSK 95 B/B BG	1171.2	197	IKD 2,5 PNP/AC/LED(RD)220V BG	1266.2	61
H 2,5/14-T GR	1069.0	429	HZL 0,5 HL OG	3004.0	430	IKD 2,5 PNP/DC/LED(GN)/24V BG	1284.2	61
H 2,5/17,5 KS BU	3084.0	430	HZL 0,5 HL-D WH	2993.0	431	IKD 2,5 PNP/DC/LED(GN)/48V BG	1286.2	61
H 2,5/18	3101.0	432	HZL 0,5 L OG	3005.0	430	IKD 2,5 PNP/DC/LED(GN)/60V BG	1288.2	61
H 2,5/18-D BU	2846.0	429	HZL 0,5 L-D WH	2994.0	431	IKD 2,5 PNP/DC/LED(RD)/24V BG	1283.2	61
H 2,5/18-D BU	2846.0	429	HZL 0,5 OG	3003.0	430	IKD 2,5 PNP/DC/LED(RD)/48V BG	1285.2	61
H 2,5/18-T GR	3130.0	429	HZL 0,75 HL WH	3007.0	430	IKD 2,5 PNP/DC/LED(RD)/60V BG	1287.2	61
H 2,5/21,5 KS BU	3085.0	430	HZL 0,75 HL-T LB	3030.0	431	IKD 2,5/F BG	1295.2	56
H 2,5/24-D BU	2847.0	429	HZL 0,75 L WH	3008.0	430	IKD 2,5/F BG	1295.2	60
H 2,5/24-D BU	2847.0	429	HZL 0,75 L-D GR	2995.0	431	IKD 2,5/Q BG	2268.2	56
H 2,5/24-T GR	1089.0	429	HZL 0,75 L-T LB	3031.0	431	IKD 2,5/Q BG	2268.2	60
H 2,5/7	2223.0	432	HZL 0,75 WH	3006.0	430	IKD 2,5/Q BU	2268.5	56
H 25,0/15	2394.0	432	HZL 0,75-T LB	3029.0	431	Insert C59	17096.5	423
H 25,0/18	2395.0	432	HZL 1,0 HL YE	3010.0	430	Insert IT6	17096.2	423
H 25,0/25	3108.0	432	HZL 1,0 L YE	3011.0	430	Insert NIT10	17096.3	423
H 25,0/30 BN	2267.0	428	HZL 1,0 L-D RD	2996.0	431	Insert OB2,5P	17096.4	423
H 25,0/30-D YE	2857.0	429	HZL 1,0 YE	3009.0	430	Insert WF16 EN	17096.0	423
H 25,0/30-T BK	2511.0	429	HZL 1,5 HL RD	3013.0	430	Insert WF50 EN	17096.1	423
H 25,0/32	3109.0	432	HZL 1,5 L RD	3014.0	430	ISKS 5	2818.0	422
H 25,0/36 BN	2272.0	428	HZL 1,5 L-D BK	2997.0	431	ISKS 6	2772.0	422
H 25,0/36-D YE	2858.0	429	HZL 1,5 RD	3012.0	430	ISKS 8	2773.0	422
H 25,0/36-T BK	3132.0	429	HZL 10,0 IV	3022.0	430			
H 35,0/18	2396.0	432	HZL 10,0 L IV	3023.0	430			
H 35,0/25	3110.0	432	HZL 10,0 L-D RD	3001.0	431	K 16 BU	2489.5	90
H 35,0/30 BG	2276.0	428	HZL 10,0 L-T BN	3046.0	431	K 16 BU	2489.5	238
H 35,0/30-D RD	2859.0	429	HZL 10,0-T BN	3045.0	431	K 16 GNYE	2489.1	90
H 35,0/32	3111.0	432	HZL 16,0 GN	3024.0	430	K 16 GNYE	2489.1	238
H 35,0/32-D RD	3121.0	429	HZL 16,0 L GN	3025.0	430	K 16/6 BU	2492.5	239
H 35,0/39 BG	2390.0	428	HZL 16,0 L-D BU	3002.0	431	K 16/6 GNYE	2492.1	239
H 35,0/39-D RD	2860.0	429	HZL 16,0 L-T WH	3048.0	431	K 35 BU	2490.5	239
H 4,0/12	2226.0	432	HZL 16,0-T WH	3047.0	431	K 35 GNYE	2490.1	239
H 4,0/15	3102.0	432	HZL 2,5 HL-T GR	3039.0	431	K 4 BK	2488.4	90
H 4,0/18	3103.0	432	HZL 2,5 L-D BU	2998.0	431	K 4 BK	2488.4	238
H 4,0/18-D GR	2848.0	429	HZL 2,5 L-T GR	3040.0	431	K 4 BU	2488.5	90
H 4,0/18-D GR	2848.0	429	HZL 2,5-T GR	3038.0	431	K 4 BU	2488.5	238
H 4,0/18-T OG	2041.0	429	HZL 4,0 L-D GR	2999.0	431	K 4 GNYE	2488.1	90
H 4,0/19,5 KS GR	3086.0	430	HZL 4,0 L-T OG	3042.0	431	K 4 GNYE	2488.1	238
H 4,0/20-D GR	2849.0	429	HZL 4,0-T OG	3041.0	431	K 4/6 BU	2491.5	90
H 4,0/20-D GR	2849.0	429	HZL 6,0 BK	3020.0	430	K 4/6 BU	2491.5	238
H 4,0/20-D SR GR	3194.0	430	HZL 6,0 L BK	3021.0	430	K 4/6 GNYE	2491.1	90
H 4,0/20-T OG	3131.0	429	HZL 6,0 L-D YE	3000.0	431	K 4/6 GNYE	2491.1	238
H 4,0/26-D GR	2850.0	429	HZL 6,0 L-T GN	3044.0	431	K1 RD	12002.9	135
H 4,0/26-D GR	2850.0	429	HZL 6,0-T GN	3043.0	431	K2 RD	12003.9	135

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KB 200 BF 28,5x13	3191.0	386	KBH 10/4 Print "k"	2162.0310	376	KBH 10/6 Print "X3"	2695.0416	376
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KBH 10/4 Print "0"	2637.0000	376	KBH 10/4 Print "r"	2162.0317	376	KBH 16/6 Print "E"	2639.0204	377
KBH 10/4 Print "1"	2162.0001	376	KBH 10/4 Print "R"	2637.0217	376	KBH 16/6 Print "e"	2639.0304	377
KBH 10/4 Print "1"	2637.0001	376	KBH 10/4 Print "r"	2637.0317	376	KBH 16/6 Print "Earth with circuit"	2639.0407	377
KBH 10/4 Print "2"	2162.0002	376	KBH 10/4 Print "S"	2162.0218	376	KBH 16/6 Print "Earth"	2639.0406	377
KBH 10/4 Print "2"	2637.0002	376	KBH 10/4 Print "s"	2162.0318	376	KBH 16/6 Print "F"	2639.0205	377
KBH 10/4 Print "3"	2162.0003	376	KBH 10/4 Print "S"	2637.0218	376	KBH 16/6 Print "f"	2639.0305	377
KBH 10/4 Print "3"	2637.0003	376	KBH 10/4 Print "s"	2637.0318	376	KBH 16/6 Print "G"	2639.0206	377
KBH 10/4 Print "4"	2162.0004	376	KBH 10/4 Print "T"	2162.0219	376	KBH 16/6 Print "g"	2639.0306	377
KBH 10/4 Print "4"	2637.0004	376	KBH 10/4 Print "t"	2162.0319	376	KBH 16/6 Print "H"	2639.0207	377
KBH 10/4 Print "5"	2162.0005	376	KBH 10/4 Print "T"	2637.0219	376	KBH 16/6 Print "h"	2639.0307	377
KBH 10/4 Print "5"	2637.0005	376	KBH 10/4 Print "t"	2637.0319	376	KBH 16/6 Print "I"	2639.0208	377
KBH 10/4 Print "6"	2162.0006	376	KBH 10/4 Print "U"	2162.0220	376	KBH 16/6 Print "i"	2639.0308	377
KBH 10/4 Print "6"	2637.0006	376	KBH 10/4 Print "u"	2162.0320	376	KBH 16/6 Print "J"	2639.0209	377
KBH 10/4 Print "7"	2162.0007	376	KBH 10/4 Print "U"	2637.0220	376	KBH 16/6 Print "j"	2639.0309	377
KBH 10/4 Print "7"	2637.0007	376	KBH 10/4 Print "u"	2637.0320	376	KBH 16/6 Print "K"	2639.0210	377
KBH 10/4 Print "8"	2162.0008	376	KBH 10/4 Print "V"	2162.0221	376	KBH 16/6 Print "k"	2639.0310	377
KBH 10/4 Print "8"	2637.0008	376	KBH 10/4 Print "v"	2162.0321	376	KBH 16/6 Print "L"	2639.0211	377
KBH 10/4 Print "9"	2162.0009	376	KBH 10/4 Print "V"	2637.0221	376	KBH 16/6 Print "l"	2639.0311	377
KBH 10/4 Print "9"	2637.0009	376	KBH 10/4 Print "v"	2637.0321	376	KBH 16/6 Print "L1"	2639.0409	377
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KBH 10/4 Print "B"	2162.0201	376	KBH 10/4 Print "X"	2162.0223	376	KBH 16/6 Print "MP"	2639.0412	377
KBH 10/4 Print "B"	2637.0201	376	KBH 10/4 Print "x"	2162.0323	376	KBH 16/6 Print "N"	2639.0213	377
KBH 10/4 Print "C"	2162.0202	376	KBH 10/4 Print "X"	2637.0223	376	KBH 16/6 Print "n"	2639.0313	377
KBH 10/4 Print "c"	2162.0302	376	KBH 10/4 Print "x"	2637.0323	376	KBH 16/6 Print "O"	2639.0214	377
KBH 10/4 Print "C"	2637.0202	376	KBH 10/4 Print "Y"	2162.0224	376	KBH 16/6 Print "o"	2639.0314	377
KBH 10/4 Print "c"	2637.0302	376	KBH 10/4 Print "y"	2162.0324	376	KBH 16/6 Print "P"	2639.0215	377
KBH 10/4 Print "D"	2162.0203	376	KBH 10/4 Print "Y"	2637.0224	376	KBH 16/6 Print "p"	2639.0315	377
KBH 10/4 Print "d"	2162.0303	376	KBH 10/4 Print "y"	2637.0324	376	KBH 16/6 Print "PE"	2639.0413	377
KBH 10/4 Print "D"	2637.0203	376	KBH 10/4 Print "Z"	2162.0225	376	KBH 16/6 Print "Q"	2639.0216	377
KBH 10/4 Print "d"	2637.0303	376	KBH 10/4 Print "z"	2162.0325	376	KBH 16/6 Print "q"	2639.0316	377
KBH 10/4 Print "E"	2162.0204	376	KBH 10/4 Print "Z"	2637.0225	376	KBH 16/6 Print "R"	2639.0217	377
KBH 10/4 Print "e"	2162.0304	376	KBH 10/4 Print "z"	2637.0325	376	KBH 16/6 Print "r"	2639.0317	377
KBH 10/4 Print "E"	2637.0204	376	KBH 10/4 blank BK	2148.0100	376	KBH 16/6 Print "S"	2639.0218	377
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KBH 10/4 Print "Earth with circuit"	2162.0407	376	KBH 10/4 blank BU	2148.0106	376	KBH 16/6 Print "T"	2639.0219	377
KBH 10/4 Print "Earth"	2637.0406	376	KBH 10/4 blank BU	2638.0106	376	KBH 16/6 Print "t"	2639.0319	377
KBH 10/4 Print "F"	2162.0205	376	KBH 10/4 blank GN	2148.0105	376	KBH 16/6 Print "U"	2639.0220	377
KBH 10/4 Print "f"	2162.0305	376	KBH 10/4 blank GN	2638.0105	376	KBH 16/6 Print "u"	2639.0320	377
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KBH 10/4 Print "f"	2637.0305	376	KBH 10/4 blank GR	2638.0108	376	KBH 16/6 Print "v"	2639.0321	377
KBH 10/4 Print "G"	2162.0206	376	KBH 10/4 blank OG	2148.0103	376	KBH 16/6 Print "W"	2639.0222	377
KBH 10/4 Print "g"	2162.0306	376	KBH 10/4 blank OG	2638.0103	376	KBH 16/6 Print "w"	2639.0322	377
KBH 10/4 Print "G"	2637.0206	376	KBH 10/4 blank RD	2148.0102	376	KBH 16/6 Print "X"	2639.0223	377
KBH 10/4 Print "g"	2637.0306	376	KBH 10/4 blank RD	2638.0102	376	KBH 16/6 Print "x"	2639.0323	377
KBH 10/4 Print "H"	2162.0207	376	KBH 10/4 blank VT	2148.0107	376	KBH 16/6 Print "X1"	2639.0414	377
KBH 10/4 Print "h"	2162.0307	376	KBH 10/4 blank VT	2638.0107	376	KBH 16/6 Print "X2"	2639.0415	377
KBH 10/4 Print "H"	2637.0207	376	KBH 10/4 blank WH	2148.0109	376	KBH 16/6 Print "Y"	2639.0224	377
KBH 10/4 Print "h"	2637.0307	376	KBH 10/4 blank WH	2638.0109	376	KBH 16/6 Print "y"	2639.0324	377
KBH 10/4 Print "I"	2162.0208	376	KBH 10/4 blank YE	2148.0104	376	KBH 16/6 Print "Z"	2639.0225	377
KBH 10/4 Print "i"	2162.0308	376	KBH 10/4 blank YE	2638.0104	376	KBH 16/6 Print "z"	2639.0325	377
KBH 10/4 Print "I"	2637.0208	376	KBH 10/6 Print "A1"	2695.0417	376	KBH 3/15 blank WH	2628.0	378
KBH 10/4 Print "i"	2637.0308	376	KBH 10/6 Print "A2"	2695.0418	376	KBH 3/15 blank YE	2627.0	378
KBH 10/4 Print "J"	2162.0209	376	KBH 10/6 Print "L1"	2695.0409	376	KBH 3/21 blank WH Strip	2662.0	378
KBH 10/4 Print "j"	2162.0309	376	KBH 10/6 Print "L2"	2695.0410	376	KBH 3/21 blank YE Strip	2661.0	378
			KBH 10/6 Print "L3"	2695.0411	376	KBH 3/27 blank WH Strip	2663.0	378
			KBH 10/6 Print "MP"	2695.0412	376	KBH 3/27 blank YE	2629.0	378
						KBH 3/3 Print " . "	2156.0403	374
						KBH 3/3 Print " . "	2630.0403	374

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KBH 3/3 Print "7"	2156.0007	374	KBH 3/3 Print "u"	2630.0320	374	KBH 5/3 Print "d"	2632.0303	375
KBH 3/3 Print "7"	2630.0007	374	KBH 3/3 Print "V"	2156.0221	374	KBH 5/3 Print "E"	2632.0204	375
KBH 3/3 Print "8"	2156.0008	374	KBH 3/3 Print "v"	2156.0321	374	KBH 5/3 Print "e"	2632.0304	375
KBH 3/3 Print "8"	2630.0008	374	KBH 3/3 Print "V"	2630.0221	374	KBH 5/3 Print "Earth with circuit"	2632.0407	375
KBH 3/3 Print "9"	2156.0009	374	KBH 3/3 Print "W"	2156.0321	374	KBH 5/3 Print "Earth"	2632.0406	375
KBH 3/3 Print "9"	2630.0009	374	KBH 3/3 Print "w"	2630.0221	374	KBH 5/3 Print "F"	2632.0205	375
KBH 3/3 Print "A"	2156.0200	374	KBH 3/3 Print "W"	2156.0322	374	KBH 5/3 Print "f"	2632.0305	375
KBH 3/3 Print "a"	2156.0300	374	KBH 3/3 Print "W"	2630.0222	374	KBH 5/3 Print "G"	2632.0206	375
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KBH 3/3 Print "B"	2156.0201	374	KBH 3/3 Print "x"	2156.0322	374	KBH 5/3 Print "h"	2632.0307	375
KBH 3/3 Print "b"	2156.0301	374	KBH 3/3 Print "X"	2630.0223	374	KBH 5/3 Print "I"	2632.0208	375
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KBH 3/3 Print "b"	2630.0301	374	KBH 3/3 Print "X"	2630.0223	374	KBH 5/3 Print "J"	2632.0209	375
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KBH 3/3 Print "Earth with circuit"	2630.0407	374	KBH 3/3 blank GN	2142.0103	374	KBH 5/3 Print "Q"	2632.0216	375
KBH 3/3 Print "Earth"	2156.0406	374	KBH 3/3 blank GR	2142.0108	374	KBH 5/3 Print "r"	2632.0316	375
KBH 3/3 Print "Earth"	2630.0406	374	KBH 3/3 blank GR	2631.0108	374	KBH 5/3 Print "q"	2632.0217	375
KBH 3/3 Print "F"	2156.0205	374	KBH 3/3 blank OG	2142.0103	374	KBH 5/3 Print "r"	2632.0317	375
KBH 3/3 Print "f"	2156.0305	374	KBH 3/3 blank OG	2631.0103	374	KBH 5/3 Print "S"	2632.0218	375
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KBH 3/3 Print "g"	2156.0306	374	KBH 3/3 blank VT	2142.0107	374	KBH 5/3 Print "t"	2632.0319	375
KBH 3/3 Print "G"	2630.0206	374	KBH 3/3 blank VT	2631.0107	374	KBH 5/3 Print "U"	2632.0220	375
KBH 3/3 Print "g"	2630.0306	374	KBH 3/3 blank WH	2142.0109	374	KBH 5/3 Print "u"	2632.0320	375
KBH 3/3 Print "H"	2156.0207	374	KBH 3/3 blank WH	2631.0109	374	KBH 5/3 Print "V"	2632.0221	375
KBH 3/3 Print "h"	2156.0307	374	KBH 3/3 blank YE	2142.0104	374	KBH 5/3 Print "v"	2632.0321	375
KBH 3/3 Print "H"	2630.0207	374	KBH 3/3 blank YE	2631.0104	374	KBH 5/3 Print "W"	2632.0222	375
KBH 3/3 Print "h"	2630.0307	374	KBH 3/6 Print "A1"	2675.0417	374	KBH 5/3 Print "w"	2632.0322	375
KBH 3/3 Print "I"	2156.0208	374	KBH 3/6 Print "A2"	2675.0418	374	KBH 5/3 Print "X"	2632.0223	375
KBH 3/3 Print "i"	2156.0308	374	KBH 3/6 Print "L1"	2675.0409	374	KBH 5/3 Print "x"	2632.0323	375
KBH 3/3 Print "I"	2630.0208	374	KBH 3/6 Print "L2"	2675.0410	374	KBH 5/3 Print "Y"	2632.0224	375
KBH 3/3 Print "i"	2630.0308	374	KBH 3/6 Print "L3"	2675.0411	374	KBH 5/3 Print "y"	2632.0324	375
KBH 3/3 Print "J"	2156.0209	374	KBH 3/6 Print "MP"	2675.0412	374	KBH 5/3 Print "Z"	2632.0225	375
KBH 3/3 Print "j"	2156.0309	374	KBH 3/6 Print "PE"	2675.0413	374	KBH 5/3 Print "z"	2632.0325	375
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KBH 3/3 Print "K"	2156.0210	374	KBH 3/6 Print "X3"	2675.0416	374	KBH 5/3 blank GN	2633.0106	375
KBH 3/3 Print "k"	2156.0310	374	KBH 3/6 Print "A1"	2678.0417	374	KBH 5/3 blank GR	2633.0105	375
KBH 3/3 Print "K"	2630.0210	374	KBH 3/6 Print "A2"	2678.0418	374	KBH 5/3 blank OG	2633.0108	375
KBH 3/3 Print "k"	2630.0310	374	KBH 3/6 Print "L1"	2678.0409	374	KBH 5/3 blank RD	2633.0102	375
KBH 3/3 Print "L"	2156.0211	374	KBH 3/6 Print "L2"	2678.0410	374	KBH 5/3 blank VT	2633.0107	375
KBH 3/3 Print "l"	2156.0311	374	KBH 3/6 Print "L3"	2678.0411	374	KBH 5/3 blank WH	2633.0109	375
KBH 3/3 Print "L"	2630.0211	374	KBH 3/6 Print "MP"	2678.0412	374	KBH 5/3 blank YE	2633.0104	375
KBH 3/3 Print "l"	2630.0311	374	KBH 3/6 Print "PE"	2678.0413	374	KBH 5/3 Print " / "	2160.0403	375
KBH 3/3 Print "I" -small	2156.0311	374	KBH 3/6 Print "X1"	2678.0414	374	KBH 5/3 Print " / "	2160.0402	375
KBH 3/3 Print "M"	2156.0212	374	KBH 3/6 Print "X2"	2678.0415	374	KBH 5/3 Print " : "	2160.0404	375
KBH 3/3 Print "m"	2156.0312	374	KBH 3/6 Print "X3"	2678.0416	374			
KBH 3/3 Print "M"	2630.0212	374						
KBH 3/3 Print "m"	2630.0312	374						
KBH 3/3 Print "M"	2630.0212	374						
KBH 3/3 Print "m"	2630.0312	374						

Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
KBH 5/3 Print " - "	2160.0408	375	KBH 5/6 Print"X3"	2634.0416	375	KBH-S 4 Print " i "	2690.0308	390
KBH 5/3 Print " = "	2160.0405	375	KBH 5/6 Print "A1"	2681.0417	375	KBH-S 4 Print " j "	2690.0309	390
KBH 5/3 Print "-"	2160.0420	375	KBH 5/6 Print "A2"	2681.0418	375	KBH-S 4 Print "-"	2690.0420	390
KBH 5/3 Print "-." BU	2160.0401	375	KBH 5/6 Print "L1"	2681.0409	375	KBH-S 4 Print "-." BU	2666.0420	390
KBH 5/3 Print "+"	2160.0419	375	KBH 5/6 Print "L2"	2681.0410	375	KBH-S 4 Print "-." BU	2666.0401	390
KBH 5/3 Print "+." RD	2160.0400	375	KBH 5/6 Print "L3"	2681.0411	375	KBH-S 4 Print "-." BU	2690.0401	390
KBH 5/3 Print "0"	2160.0000	375	KBH 5/6 Print "MP"	2681.0412	375	KBH-S 4 Print "+"	2690.0419	390
KBH 5/3 Print "1"	2160.0001	375	KBH 5/6 Print "PE"	2681.0413	375	KBH-S 4 Print "+"	2666.0419	390
KBH 5/3 Print "2"	2160.0002	375	KBH 5/6 Print "X1"	2681.0414	375	KBH-S 4 Print "+." RD	2666.0400	390
KBH 5/3 Print "3"	2160.0003	375	KBH 5/6 Print "X2"	2681.0415	375	KBH-S 4 Print "+." RD	2690.0400	390
KBH 5/3 Print "4"	2160.0004	375	KBH 5/6 Print "X3"	2681.0416	375	KBH-S 4 Print "0"	2666.0000	390
KBH 5/3 Print "5"	2160.0005	375	KBH 5/6 Print"A1"	2634.0417	375	KBH-S 4 Print "0"	2690.0000	390
KBH 5/3 Print "6"	2160.0006	375	KBH-C 10 Beutel Print "/"	2591.0402	381	KBH-S 4 Print "1"	2666.0001	390
KBH 5/3 Print "7"	2160.0007	375	KBH-C 10 Bag print " : "	2591.0404	381	KBH-S 4 Print "1"	2690.0001	390
KBH 5/3 Print "8"	2160.0008	375	KBH-C 10 Bag print " ~ "	2591.0408	381	KBH-S 4 Print "2"	2666.0002	390
KBH 5/3 Print "9"	2160.0009	375	KBH-C 10 Bag print "-"	2591.0420	381	KBH-S 4 Print "2"	2690.0002	390
KBH 5/3 Print "A"	2160.0200	375	KBH-C 10 Bag print "-." BU	2591.0401	381	KBH-S 4 Print "3"	2666.0003	390
KBH 5/3 Print "a"	2160.0300	375	KBH-C 10 Bag print "."	2591.0403	381	KBH-S 4 Print "3"	2690.0003	390
KBH 5/3 Print "B"	2160.0201	375	KBH-C 10 Bag print "+"	2591.0419	381	KBH-S 4 Print "4"	2666.0004	390
KBH 5/3 Print "b"	2160.0301	375	KBH-C 10 Bag print "+." RD	2591.0400	381	KBH-S 4 Print "4"	2690.0004	390
KBH 5/3 Print "C"	2160.0202	375	KBH-C 10 Bag print "="	2591.0405	381	KBH-S 4 Print "5"	2666.0005	390
KBH 5/3 Print "c"	2160.0302	375	KBH-C 10 Bag print "0"	2591.0000	381	KBH-S 4 Print "5"	2690.0005	390
KBH 5/3 Print "D"	2160.0203	375	KBH-C 10 Bag print "1"	2591.0001	381	KBH-S 4 Print "6"	2666.0006	390
KBH 5/3 Print "d"	2160.0303	375	KBH-C 10 Bag print "2"	2591.0002	381	KBH-S 4 Print "6"	2690.0006	390
KBH 5/3 Print "E"	2160.0204	375	KBH-C 10 Bag print "3"	2591.0003	381	KBH-S 4 Print "7"	2666.0007	390
KBH 5/3 Print "e"	2160.0304	375	KBH-C 10 Bag print "4"	2591.0004	381	KBH-S 4 Print "7"	2690.0007	390
KBH 5/3 Print "Earth with circuit"	2160.0407	375	KBH-C 10 Bag print "5"	2591.0005	381	KBH-S 4 Print "8"	2666.0008	390
KBH 5/3 Print "Earth"	2160.0406	375	KBH-C 10 Bag print "6"	2591.0006	381	KBH-S 4 Print "8"	2690.0008	390
KBH 5/3 Print "F"	2160.0205	375	KBH-C 10 Bag print "7"	2591.0007	381	KBH-S 4 Print "9"	2666.0009	390
KBH 5/3 Print "f"	2160.0305	375	KBH-C 10 Bag print "8"	2591.0008	381	KBH-S 4 Print "9"	2690.0009	390
KBH 5/3 Print "G"	2160.0206	375	KBH-C 10 Bag print "9"	2591.0009	381	KBH-S 4 Print "A"	2666.0200	390
KBH 5/3 Print "g"	2160.0306	375	KBH-C 10 Bag print "Earth with circuit"	2591.0407	381	KBH-S 4 Print "a"	2666.0300	390
KBH 5/3 Print "H"	2160.0207	375	KBH-C 10 Bag print "Earth"	2591.0406	381	KBH-S 4 Print "A"	2690.0200	390
KBH 5/3 Print "h"	2160.0307	375	KBH-C 20 Beutel Print "/"	2595.0402	381	KBH-S 4 Print "a"	2690.0300	390
KBH 5/3 Print "I"	2160.0208	375	KBH-C 20 Bag print " : "	2595.0404	381	KBH-S 4 Print "B"	2666.0201	390
KBH 5/3 Print "i"	2160.0308	375	KBH-C 20 Bag print " ~ "	2595.0408	381	KBH-S 4 Print "b"	2666.0301	390
KBH 5/3 Print "J"	2160.0209	375	KBH-C 20 Bag print "-"	2595.0420	381	KBH-S 4 Print "B"	2690.0201	390
KBH 5/3 Print "j"	2160.0309	375	KBH-C 20 Bag print "-." BU	2595.0401	381	KBH-S 4 Print "b"	2690.0301	390
KBH 5/3 Print "K"	2160.0210	375	KBH-C 20 Bag print "."	2595.0403	381	KBH-S 4 Print "C"	2666.0202	390
KBH 5/3 Print "k"	2160.0310	375	KBH-C 20 Bag print "+"	2595.0419	381	KBH-S 4 Print "c"	2666.0302	390
KBH 5/3 Print "L"	2160.0211	375	KBH-C 20 Bag print "+." RD	2595.0400	381	KBH-S 4 Print "C"	2690.0202	390
KBH 5/3 Print "l"	2160.0311	375	KBH-C 20 Bag print "="	2595.0405	381	KBH-S 4 Print "c"	2690.0302	390
KBH 5/3 Print "M"	2160.0212	375	KBH-C 20 Bag print "Earth with circuit"	2595.0407	381	KBH-S 4 Print "D"	2666.0203	390
KBH 5/3 Print "m"	2160.0312	375	KBH-C 20 Bag print "Earth"	2595.0406	381	KBH-S 4 Print "d"	2666.0303	390
KBH 5/3 Print "N"	2160.0213	375	KBH-C 20 Bag print "0"	2595.0000	381	KBH-S 4 Print "d"	2690.0203	390
KBH 5/3 Print "n"	2160.0313	375	KBH-C 20 Bag print "1"	2595.0001	381	KBH-S 4 Print "d"	2690.0303	390
KBH 5/3 Print "O"	2160.0214	375	KBH-C 20 Bag print "2"	2595.0002	381	KBH-S 4 Print "E"	2666.0204	390
KBH 5/3 Print "o"	2160.0314	375	KBH-C 20 Bag print "3"	2595.0003	381	KBH-S 4 Print "e"	2666.0304	390
KBH 5/3 Print "P"	2160.0215	375	KBH-C 20 Bag print "4"	2595.0004	381	KBH-S 4 Print "E"	2690.0204	390
KBH 5/3 Print "p"	2160.0315	375	KBH-C 20 Bag print "5"	2595.0005	381	KBH-S 4 Print "e"	2690.0304	390
KBH 5/3 Print "Q"	2160.0216	375	KBH-C 20 Bag print "6"	2595.0006	381	KBH-S 4 Print "Earth with circuit"	2666.0407	390
KBH 5/3 Print "q"	2160.0316	375	KBH-C 20 Bag print "7"	2595.0007	381	KBH-S 4 Print "Earth"	2666.0406	390
KBH 5/3 Print "R"	2160.0217	375	KBH-C 20 Bag print "8"	2595.0008	381	KBH-S 4 Print "F"	2666.0205	390
KBH 5/3 Print "r"	2160.0317	375	KBH-C 20 Bag print "9"	2595.0009	381	KBH-S 4 Print "f"	2666.0305	390
KBH 5/3 Print "S"	2160.0218	375	KBH-C 30 Beutel Print "/"	2599.0402	381	KBH-S 4 Print "F"	2690.0205	390
KBH 5/3 Print "s"	2160.0318	375	KBH-C 30 Bag print " : "	2599.0404	381	KBH-S 4 Print "f"	2690.0305	390
KBH 5/3 Print "T"	2160.0219	375	KBH-C 30 Bag print " ~ "	2599.0408	381	KBH-S 4 Print "G"	2666.0206	390
KBH 5/3 Print "t"	2160.0319	375	KBH-C 30 Bag print "-"	2599.0420	381	KBH-S 4 Print "g"	2666.0306	390
KBH 5/3 Print "U"	2160.0220	375	KBH-C 30 Bag print "-." BU	2599.0401	381	KBH-S 4 Print "G"	2690.0206	390
KBH 5/3 Print "u"	2160.0320	375	KBH-C 30 Bag print "."	2599.0403	381	KBH-S 4 Print "g"	2690.0306	390
KBH 5/3 Print "V"	2160.0221	375	KBH-C 30 Bag print "+"	2599.0419	381	KBH-S 4 Print "H"	2666.0207	390
KBH 5/3 Print "v"	2160.0321	375	KBH-C 30 Bag print "+." RD	2599.0400	381	KBH-S 4 Print "h"	2666.0307	390
KBH 5/3 Print "W"	2160.0222	375	KBH-C 30 Bag print "="	2599.0405	381	KBH-S 4 Print "H"	2690.0207	390
KBH 5/3 Print "w"	2160.0322	375	KBH-C 30 Bag print "Earth with circuit"	2599.0407	381	KBH-S 4 Print "h"	2690.0307	390
KBH 5/3 Print "X"	2160.0223	375	KBH-C 30 Bag print "Earth"	2599.0406	381	KBH-S 4 Print "I"	2666.0208	390
KBH 5/3 Print "x"	2160.0323	375	KBH-C 30 Bag print "0"	2599.0000	381	KBH-S 4 Print "i"	2666.0308	390
KBH 5/3 Print "Y"	2160.0224	375	KBH-C 30 Bag print "1"	2599.0001	381	KBH-S 4 Print "J"	2666.0209	390
KBH 5/3 Print "y"	2160.0324	375	KBH-C 30 Bag print "2"	2599.0002	381	KBH-S 4 Print "j"	2666.0309	390
KBH 5/3 Print "Z"	2160.0225	375	KBH-C 30 Bag print "3"	2599.0003	381	KBH-S 4 Print "J"	2690.0209	390
KBH 5/3 Print "z"	2160.0325	375	KBH-C 30 Bag print "4"	2599.0004	381	KBH-S 4 Print "K"	2666.0210	390
KBH 5/3 blank BK	2146.0100	375	KBH-C 30 Bag print "5"	2599.0005	381	KBH-S 4 Print "k"	2666.0310	390
KBH 5/3 blank BN	2146.0101	375	KBH-C 30 Bag print "6"	2599.0006	381	KBH-S 4 Print "K"	2690.0210	390
KBH 5/3 blank BU	2146.0106	375	KBH-C 30 Bag print "7"	2599.0007	381	KBH-S 4 Print "k"	2690.0310	390
KBH 5/3 blank GN	2146.0105	375	KBH-C 30 Bag print "8"	2599.0008	381	KBH-S 4 Print "L"	2666.0211	390
KBH 5/3 blank GR	2146.0108	375	KBH-C 30 Bag print "9"	2599.0009	381	KBH-S 4 Print "l"	2666.0311	390
KBH 5/3 blank OG	2146.0103	375	KBH-S 21 blank WH	2525.0	388	KBH-S 4 Print "L"	2690.0211	390
KBH 5/3 blank RD	2146.0102	375	KBH-S 21 blank YE	2624.0	388	KBH-S 4 Print "I"	2690.0311	390
KBH 5/3 blank RD	2146.0102	375	KBH-S 36 blank WH	2533.0	388	KBH-S 4 Print "M"	2666.0212	390
KBH 5/3 blank VT	2146.0107	375	KBH-S 36 blank YE	2532.0	388	KBH-S 4 Print "m"	2666.0312	390
KBH 5/3 blank VT	2146.0107	375	KBH-S 4 Print " - "	2690.0408	390	KBH-S 4 Print "M"	2690.0212	390
KBH 5/3 blank WH	2146.0109	375	KBH-S 4 Print " I "	2690.0208	390	KBH-S 4 Print "m"	2690.0312	390
KBH 5/3 blank WH	2146.0109	375	KBH-S 4 Print " ="	2690.0405	390	KBH-S 4 Print "N"	2666.0213	390
KBH 5/3 blank YE	2146.0104	375	KBH-S 4 Print "Earth with circuit"	2690.0407	390	KBH-S 4 Print "n"	2666.0313	390
KBH 5/3 blank YE	2146.0104	375	KBH-S 4 Print "Earth"	2690.0406	390	KBH-S 4 Print "N"	2690.0213	390
KBH 5/6 Print"A2"	2634.0418	375	KBH-S 4 Print " . "	2666.0403	390	KBH-S 4 Print "n"	2690.0313	390
KBH 5/6 Print"L1"	2634.0409	375	KBH-S 4 Print " . "	2690.0403	390	KBH-S 4 Print "O"	2666.0214	390
KBH 5/6 Print"L2"	2634.0410	375	KBH-S 4 Print " / "	2666.0402	390	KBH-S 4 Print "o"	2666.0314	390
KBH 5/6 Print"L3"	2634.0411	375	KBH-S 4 Print " / "	2690.0402	390	KBH-S 4 Print "O"	2690.0214	390
KBH 5/6 Print"MP"	2634.0412	375	KBH-S 4 Print " : "	2666.0404	390	KBH-S 4 Print "o"	2690.0314	390
KBH 5/6 Print"PE"	2634.0413	375	KBH-S 4 Print " : "	2690.0404	390	KBH-S 4 Print "P"	2666.0215	390
KBH 5/6 Print"X1"	2634.0414	375	KBH-S 4 Print " ~ "	2666.0408	390	KBH-S 4 Print "p"	2666.0315	390
KBH 5/6 Print"X2"	2634.0415	375	KBH-S 4 Print " = "	2666.0405	390	KBH-S 4 Print "P"	2690.0215	390

Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
KBH-S 4 Print "p"	2690.0315	390	KH 02/15	4901.0	370	KKE 68/25,4 A4 YE	3959.8	395
KBH-S 4 Print "Q"	2666.0216	390	KH 02/18	4902.0	370	KKE 76/25 WH	3951.7	394
KBH-S 4 Print "q"	2666.0316	390	KH 02/21	4903.0	370	KKE 76/25 YE	3951.8	394
KBH-S 4 Print "Q"	2690.0216	390	KH 02/30	4930.0	370	KKE 93/35,5 A4 WH	3960.7	395
KBH-S 4 Print "q"	2690.0316	390	KH 10/12	4904.0	370	KKE 93/35,5 A4 YE	3960.8	395
KBH-S 4 Print "R"	2666.0217	390	KH 10/15	4905.0	370	KKE 93/36 WH	3952.7	394
KBH-S 4 Print "r"	2666.0317	390	KH 10/18	4906.0	370	KKE 93/36 YE	3952.8	394
KBH-S 4 Print "R"	2690.0217	390	KH 10/21	4907.0	370	KKM 34x10	3192.0	387
KBH-S 4 Print "r"	2690.0317	390	KH 10/30	4931.0	370	KKM 45x20	3193.0	387
KBH-S 4 Print "S"	2666.0218	390	KH 110 BK	2655.0	390	KM 25	17092.0	421
KBH-S 4 Print "s"	2666.0318	390	KH 20/12	4908.0	370	KM 35	17093.0	421
KBH-S 4 Print "S"	2690.0218	390	KH 20/15	4909.0	370	KS 32	1371.0	419
KBH-S 4 Print "s"	2690.0318	390	KH 20/18	4910.0	370	KS 32/EM	1372.0	419
KBH-S 4 Print "T"	2666.0219	390	KH 20/21	4911.0	370	KS 34	17089.0	419
KBH-S 4 Print "t"	2666.0319	390	KH 20/30	4932.0	370	KS 35 eco	3053.0	419
KBH-S 4 Print "T"	2690.0219	390	KH 30/12	4912.0	371	KS 45 eco	3052.0	419
KBH-S 4 Print "t"	2690.0319	390	KH 30/15	4913.0	371	KS 52	17090.0	419
KBH-S 4 Print "U"	2666.0220	390	KH 30/18	4914.0	371	KS 62P	17091.0	419
KBH-S 4 Print "u"	2666.0320	390	KH 30/21	4915.0	371	KSH 11/33	2384.0	382
KBH-S 4 Print "U"	2690.0220	390	KH 30/30	4933.0	371	KSH 4/30	3896.0	382
KBH-S 4 Print "u"	2690.0320	390	KH 5	2470.0	66	KSH 6/33	2383.0	382
KBH-S 4 Print "V"	2666.0221	390	KH 63 f. SIK 10/Z	2797.0	75	KSS 2-8	2886.0	327
KBH-S 4 Print "v"	2666.0321	390	KH 70 BK	2654.0	390	KV/M 12x1,5	4573.2	486
KBH-S 4 Print "V"	2690.0221	390	KH E 0,5/12	4936.0	372	KV/M 12x1,5-MS	4169.2	488
KBH-S 4 Print "v"	2690.0321	390	KH E 0,5/15	4936.0	372	KV/M 16x1,5	4574.2	486
KBH-S 4 Print "W"	2666.0222	390	KH E 0,5/18	4936.0	372	KV/M 16x1,5-MS	4170.2	488
KBH-S 4 Print "w"	2666.0322	390	KH E 0,5/21	4936.0	372	KV/M 20x1,5	4575.2	486
KBH-S 4 Print "W"	2690.0222	390	KH E 0,5/30	4936.0	372	KV/M 20x1,5-MS	4171.2	488
KBH-S 4 Print "w"	2690.0322	390	KH E 10,0/12	4937.0	373	KV/M 25x1,5	4576.2	486
KBH-S 4 Print "X"	2666.0223	390	KH E 10,0/15	4937.0	373	KV/M 25x1,5-MS	4172.2	488
KBH-S 4 Print "x"	2666.0323	390	KH E 10,0/18	4937.0	373	KV/M 32x1,5	4577.2	486
KBH-S 4 Print "X"	2690.0223	390	KH E 10,0/21	4937.0	373	KV/M 32x1,5-MS	4173.2	488
KBH-S 4 Print "x"	2690.0323	390	KH E 10,0/30	4939.0	373	KV/M 40x1,5	4578.2	486
KBH-S 4 Print "Y"	2666.0224	390	KH E 2,5/12	4936.0	372	KV/M 40x1,5-MS	4174.2	488
KBH-S 4 Print "y"	2666.0324	390	KH E 2,5/15	4936.0	372	KV/M 50x1,5	4579.2	486
KBH-S 4 Print "Y"	2690.0224	390	KH E 2,5/18	4936.0	372	KV/M 50x1,5-MS	4175.2	488
KBH-S 4 Print "y"	2690.0324	390	KH E 2,5/21	4936.0	372	KV/M 63x1,5	4580.2	486
KBH-S 4 Print "Z"	2666.0225	390	KH E 2,5/30	4936.0	372	KV/M 63x1,5-MS	4176.2	488
KBH-S 4 Print "z"	2666.0325	390	KH E 25,0/12	4938.0	373	KV/Mex-e 16x1,5 BK	17500.4	486
KBH-S 4 Print "Z"	2690.0225	390	KH E 25,0/15	4938.0	373	KV/Mex-e 20 x 1,5 BK	17501.4	486
KBH-S 4 Print "z"	2690.0325	390	KH E 25,0/18	4938.0	373	KV/Mex-e 25 x 1,5 BK	17502.4	486
KBH-S 4 blank BK	2671.0100	390	KH E 25,0/21	4938.0	373	KV/Mex-e 32 x 1,5 BK	17503.4	486
KBH-S 4 blank BK	2691.0100	390	KH E 25,0/30	4938.0	373	KV/Mex-e 40 x 1,5 BK	17504.4	486
KBH-S 4 blank BN	2671.0101	390	KH E 4,0/12	4937.0	372	KV/Mex-e 50 x 1,5 BK	17505.4	486
KBH-S 4 blank BN	2691.0101	390	KH E 4,0/15	4937.0	372	KV/Mex-e 63 x 1,5 BK	17506.4	486
KBH-S 4 blank BU	2671.0106	390	KH E 4,0/18	4937.0	372	KV/Mex-i 16x1,5 BU	17500.5	486
KBH-S 4 blank BU	2691.0106	390	KH E 4,0/21	4937.0	372	KV/Mex-i 20 x 1,5 BU	17501.5	486
KBH-S 4 blank GN	2671.0105	390	KH E 4,0/30	4937.0	372	KV/Mex-i 25 x 1,5 BU	17502.5	486
KBH-S 4 blank GN	2691.0105	390	KH E 70,0/12	4938.0	373	KV/Mex-i 32 x 1,5 BU	17503.5	486
KBH-S 4 blank GR	2671.0108	390	KH E 70,0/15	4938.0	373	KV/Mex-i 40 x 1,5 BU	17504.5	486
KBH-S 4 blank GR	2691.0108	390	KH E 70,0/18	4938.0	373	KV/Mex-i 50 x 1,5 BU	17505.5	486
KBH-S 4 blank OG	2671.0103	390	KH E 70,0/21	4938.0	373	KV/Mex-i 63 x 1,5 BU	17506.5	486
KBH-S 4 blank OG	2691.0103	390	KH E 70,0/30	4939.0	373	KV/M-L 12x1,5	17599.2	486
KBH-S 4 blank RD	2671.0102	390	KHZ 02/12	5984.0	371	KV/M-L 16x1,5	17600.2	486
KBH-S 4 blank RD	2691.0102	390	KHZ 02/15	5985.0	371	KV/M-L 20x1,5	17601.2	486
KBH-S 4 blank VT	2691.0107	390	KHZ 02/18	5986.0	371	KV/M-L 25x1,5	17602.2	486
KBH-S 4 blank VT/WH	2671.0107	390	KHZ 02/21	5987.0	371	KV/M-L 32x1,5	17603.2	486
KBH-S 4 blank WH	2671.0109	390	KHZ 10/12	5988.0	371	KV/M-L 40x1,5	17604.2	486
KBH-S 4 blank WH	2691.0109	390	KHZ 10/15	5989.0	371	KV/M-L 50x1,5	17605.2	486
KBH-S 4 blank YE	2671.0104	390	KHZ 10/18	5990.0	371	KV/M-L 63x1,5	17606.2	486
KBH-S 4 blank YE	2691.0104	390	KHZ 10/21	5991.0	371	KV/PG 11	4517.2	491
KBH-S 57 blank WH	2626.0	388	KHZ 20/12	5992.0	371	KV/PG 11-MS	4537.2	492
KBH-S 57 blank YE	2625.0	388	KHZ 20/15	5993.0	371	KV/PG 13,5	4518.2	491
KBH-S 84 blank WH	2565.0	389	KHZ 20/18	5994.0	371	KV/PG 13,5-MS	4538.2	492
KBH-S 84 blank YE	2562.0	389	KHZ 20/21	5995.0	371	KV/PG 16	4519.2	491
KBH-S BK Print "0"	2527.0000	390	KHZ 30/12	5996.0	371	KV/PG 16-MS	4539.2	492
KBH-S BN Print "1"	2527.0001	390	KHZ 30/15	5997.0	371	KV/PG 21	4520.2	491
KBH-S BU Print "6"	2527.0006	390	KHZ 30/18	5998.0	371	KV/PG 21-MS	4540.2	492
KBH-S GN Print "5"	2527.0005	390	KHZ 30/21	5999.0	371	KV/PG 29	4521.2	491
KBH-S GR Print "8"	2527.0008	390	KKB 10/2 WH	1804.7	228	KV/PG 29-MS	4541.2	492
KBH-S OG Print "3"	2527.0003	390	KKB 10/3 WH	1805.7	228	KV/PG 36	4522.2	491
KBH-S RD Print "2"	2527.0002	390	KKB 2,5/2 WH	1800.7	228	KV/PG 36-MS	4542.2	492
KBH-S VT Print "7"	2527.0007	390	KKB 2,5/3 WH	1801.7	228	KV/PG 42	4523.2	491
KBH-S WH Print "9"	2527.0009	390	KKB 4/2 WH	1802.7	228	KV/PG 42-MS	4543.2	492
KBH-S YE Print "4"	2527.0004	390	KKB 4/3 WH	1803.7	228	KV/PG 48	4524.2	491
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PKB 1110/10/5,08 GN	11348.1	105	PK-TS/11/5,08/15-F GN	13834.1	102	PMC BSTR 10x12/10 FS 41-50 WH	9450.7	346
PKB 1110/12/5,08 GN	11349.1	105	PK-TS/11/5,08-F GN	13857.1	103	PMC BSTR 10x12/10 FS 41-80 WH	9452.7	346
PKB 1110/13/5,08 GN	11350.1	105	PK-TS/12/5,08 GN	12329.1	102	PMC BSTR 10x12/10 FS 81-120 WH	9453.7	346
PKB 1110/14/5,08 GN	11351.1	105	PK-TS/12/5,08/15 GN	13185.1	102	PMC BSTR 10x12/10 FS F1,L1,L2,L3,N,PE WH	9455.7	346
PKB 1110/15/5,08 GN	11352.1	105	PK-TS/12/5,08/15-F GN	13835.1	102	PMC BSTR 10x12/10 FW 1-10 WH	9436.7	346
PKB 1110/16/5,08 GN	11353.1	105	PK-TS/12/5,08-F GN	13858.1	103	PMC BSTR 10x12/10 FW 1-100 WH	9444.7	346
PKB 1110/2/5,08 GN	11339.1	105	PK-TS/13/5,08 GN	12330.1	102	PMC BSTR 10x12/10 FW 11-20 WH	9437.7	346
PKB 1110/2/5,08 GN	11339.1	136	PK-TS/13/5,08/15 GN	13186.1	102	PMC BSTR 10x12/10 FW 1-40 WH	9441.7	346
PKB 1110/3/5,08 GN	11340.1	105	PK-TS/13/5,08/15-F GN	13836.1	102	PMC BSTR 10x12/10 FW 21-30 WH	9438.7	346
PKB 1110/3/5,08 GN	11340.1	136	PK-TS/13/5,08-F GN	13859.1	103	PMC BSTR 10x12/10 FW 31-40 WH	9439.7	346
PKB 1110/4/5,08 GN	11341.1	105	PK-TS/14/5,08 GN	12331.1	102	PMC BSTR 10x12/10 FW 41-50 WH	9440.7	346
PKB 1110/4/5,08 GN	11341.1	136	PK-TS/14/5,08/15 GN	13187.1	102	PMC BSTR 10x12/10 FW 41-80 WH	9442.7	346
PKB 1110/5/5,08 GN	11342.1	105	PK-TS/14/5,08/15-F GN	13837.1	102	PMC BSTR 10x12/10 FW 81-120 WH	9443.7	346
PKB 1110/5/5,08 GN	11342.1	136	PK-TS/14/5,08-F GN	13860.1	103	PMC BSTR 10x12/10 FW L1,L2,L3,N,PE WH	9445.7	346
PKB 1110/6/5,08 GN	11343.1	105	PK-TS/15/5,08 GN	12332.1	102	PMC BSTR 10x12/10 So WH	9434.7	346
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PKB 1110/7/5,08 GN	11344.1	136	PK-TS/15/5,08-F GN	13861.1	103	PMC BSTR 5/36 FS 109-120 WH	9046.7	343
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PKB 950/18/5,08-F GN	13219.1	104	PK-TS/20/5,08-F GN	13866.1	103	PMC BSTR 5/36 FS 73-108 WH	9049.7	343
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PMC SB 4/50 FS 651-700 WH	4882.7	338
PMC SB 4/50 FS 701-750 WH	4883.7	338
PMC SB 4/50 FS 71-80 WH	4866.7	338
PMC SB 4/50 FS 751-800 WH	4884.7	338
PMC SB 4/50 FS 801-850 WH	4885.7	338
PMC SB 4/50 FS 81-90 WH	4867.7	338
PMC SB 4/50 FS 851-900 WH	4886.7	338
PMC SB 4/50 FS 91-100 WH	4868.7	338
PMC SB 4/50 FS L1,L2,L3,N,PE WH	4887.7	338
PMC SB 4/50 FS U1,V1,W1 WH	4889.7	338
PMC SB 4/50 FS U1,V1,W1,N,PE WH	4888.7	338
PMC SB 4/50 FS U2,V2,W2 WH	4891.7	338
PMC SB 4/50 FS U2,V2,W2,N,PE WH	4890.7	338
PMC SB 4/50 FS X1-X10 WH	4892.7	338
PMC SB 4/50 FW 1,3,5-19 WH	4857.7	338
PMC SB 4/50 FW 101-150 WH	4834.7	338
PMC SB 4/50 FW 1-10 WH	4822.7	338
PMC SB 4/50 FW 11-20 WH	4823.7	338
PMC SB 4/50 FW 1-50 WH	4832.7	338
PMC SB 4/50 FW 151-200 WH	4835.7	338
PMC SB 4/50 FW 2,4,6-20 WH	4858.7	338
PMC SB 4/50 FW 201-250 WH	4836.7	338
PMC SB 4/50 FW 21-30 WH	4824.7	338
PMC SB 4/50 FW 251-300 WH	4837.7	338
PMC SB 4/50 FW 301-350 WH	4838.7	338
PMC SB 4/50 FW 31-40 WH	4825.7	338
PMC SB 4/50 FW 351-400 WH	4839.7	338
PMC SB 4/50 FW 401-450 WH	4840.7	338
PMC SB 4/50 FW 41-50 WH	4826.7	338
PMC SB 4/50 FW 451-500 WH	4841.7	338
PMC SB 4/50 FW 501-550 WH	4842.7	338
PMC SB 4/50 FW 51-100 WH	4833.7	338
PMC SB 4/50 FW 51-60 WH	4827.7	338
PMC SB 4/50 FW 551-600 WH	4843.7	338
PMC SB 4/50 FW 601-650 WH	4844.7	338
PMC SB 4/50 FW 61-70 WH	4828.7	338
PMC SB 4/50 FW 651-700 WH	4845.7	338
PMC SB 4/50 FW 701-750 WH	4846.7	338
PMC SB 4/50 FW 71-80 WH	4829.7	338
PMC SB 4/50 FW 751-800 WH	4847.7	338
PMC SB 4/50 FW 801-850 WH	4848.7	338
PMC SB 4/50 FW 81-90 WH	4830.7	338
PMC SB 4/50 FW 851-900 WH	4849.7	338
PMC SB 4/50 FW 901-950 WH	4850.7	338
PMC SB 4/50 FW 91-100 WH	4831.7	338
PMC SB 4/50 FW L1,L2,L3,N,PE WH	4851.7	338
PMC SB 4/50 FW U1,V1,W1 WH	4853.7	338
PMC SB 4/50 FW U1,V1,W1,N,PE WH	4852.7	338
PMC SB 4/50 FW U2,V2,W2 WH	4855.7	338
PMC SB 4/50 FW U2,V2,W2,N,PE WH	4854.7	338
PMC SB 4/50 FW X1-X10 WH	4856.7	338
PMC SB 4/50 GS - WH	4945.7	338
PMC SB		

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PMC SB 4/50 GS 4 WH	4932.7	338	PMC SB 5/50 FW 801-850 WH	4627.7	339	PMC SB 6/50 FS 71-80 WH	4745.7	340
PMC SB 4/50 GS 5 WH	4933.7	338	PMC SB 5/50 FW 81-90 WH	4609.7	339	PMC SB 6/50 FS 751-800 WH	4763.7	341
PMC SB 4/50 GS 6 WH	4934.7	338	PMC SB 5/50 FW 851-900 WH	4628.7	339	PMC SB 6/50 FS 801-850 WH	4764.7	341
PMC SB 4/50 GS 7 WH	4935.7	338	PMC SB 5/50 FW 901-950 WH	4629.7	339	PMC SB 6/50 FS 81-90 WH	4746.7	340
PMC SB 4/50 GS 8 WH	4936.7	338	PMC SB 5/50 FW 91-100 WH	4610.7	339	PMC SB 6/50 FS 851-900 WH	4765.7	341
PMC SB 4/50 GS 9 WH	4937.7	338	PMC SB 5/50 FW L1,L2,L3,N,PE WH	4630.7	339	PMC SB 6/50 FS 91-100 WH	4747.7	340
PMC SB 4/50 GS L1 WH	4941.7	338	PMC SB 5/50 FW U1,V1,W1 WH	4632.7	339	PMC SB 6/50 FS L1,L2,L3,N,PE WH	4766.7	341
PMC SB 4/50 GS L2 WH	4942.7	338	PMC SB 5/50 FW U1,V1,W1,N,PE WH	4631.7	339	PMC SB 6/50 FS U1,V1,W1 WH	4768.7	341
PMC SB 4/50 GS L3 WH	4943.7	338	PMC SB 5/50 FW U2,V2,W2 WH	4634.7	339	PMC SB 6/50 FS U1,V1,W1,N,PE WH	4767.7	341
PMC SB 4/50 GS N WH	4944.7	338	PMC SB 5/50 FW U2,V2,W2,N,PE WH	4633.7	339	PMC SB 6/50 FS U2,V2,W2 WH	4770.7	341
PMC SB 4/50 GS PE WH	4940.7	338	PMC SB 5/50 FW X1-X10 WH	4635.7	339	PMC SB 6/50 FS U2,V2,W2,N,PE WH	4769.7	341
PMC SB 4/50 GS X WH	4939.7	338	PMC SB 5/50 GS - WH	4812.7	339	PMC SB 6/50 FS X1-X10 WH	4771.7	341
PMC SB 4/50 GW - WH	4928.7	338	PMC SB 5/50 GS 0 WH	4695.7	339	PMC SB 6/50 FW 1,3,5-19 WH	4810.7	340
PMC SB 4/50 GW + WH	4927.7	338	PMC SB 5/50 GS 1 WH	4686.7	339	PMC SB 6/50 FW 101-110 WH	9212.7	340
PMC SB 4/50 GW 0 WH	4920.7	338	PMC SB 5/50 GS 2 WH	4687.7	339	PMC SB 6/50 FW 101-150 WH	4715.7	340
PMC SB 4/50 GW 1 WH	4895.7	338	PMC SB 5/50 GS 3 WH	4688.7	339	PMC SB 6/50 FW 1-10 WH	4703.7	340
PMC SB 4/50 GW 2 WH	4896.7	338	PMC SB 5/50 GS 4 WH	4689.7	339	PMC SB 6/50 FW 111-120 WH	9213.7	340
PMC SB 4/50 GW 3 WH	4897.7	338	PMC SB 5/50 GS 5 WH	4690.7	339	PMC SB 6/50 FW 11-20 WH	4704.7	340
PMC SB 4/50 GW 4 WH	4898.7	338	PMC SB 5/50 GS 6 WH	4691.7	339	PMC SB 6/50 FW 121-130 WH	9214.7	340
PMC SB 4/50 GW 5 WH	4899.7	338	PMC SB 5/50 GS 7 WH	4692.7	339	PMC SB 6/50 FW 131-140 WH	9215.7	340
PMC SB 4/50 GW 6 WH	4916.7	338	PMC SB 5/50 GS 8 WH	4693.7	339	PMC SB 6/50 FW 141-150 WH	9216.7	340
PMC SB 4/50 GW 7 WH	4917.7	338	PMC SB 5/50 GS 9 WH	4694.7	339	PMC SB 6/50 FW 1-50 WH	4713.7	340
PMC SB 4/50 GW 8 WH	4918.7	338	PMC SB 5/50 GS L1 WH	4698.7	339	PMC SB 6/50 FW 151-160 WH	9217.7	340
PMC SB 4/50 GW 9 WH	4919.7	338	PMC SB 5/50 GS L2 WH	4699.7	339	PMC SB 6/50 FW 151-200 WH	4716.7	340
PMC SB 4/50 GW L1 WH	4923.7	338	PMC SB 5/50 GS L3 WH	4700.7	339	PMC SB 6/50 FW 161-170 WH	9218.7	340
PMC SB 4/50 GW L2 WH	4924.7	338	PMC SB 5/50 GS N WH	4701.7	339	PMC SB 6/50 FW 171-180 WH	9219.7	340
PMC SB 4/50 GW L3 WH	4925.7	338	PMC SB 5/50 GS PE WH	4697.7	339	PMC SB 6/50 FW 181-190 WH	9220.7	340
PMC SB 4/50 GW N WH	4926.7	338	PMC SB 5/50 GS X WH	4696.7	339	PMC SB 6/50 FW 191-200 WH	9221.7	340
PMC SB 4/50 GW PE WH	4922.7	338	PMC SB 5/50 GW - WH	4813.7	339	PMC SB 6/50 FW 2,4,6-20 WH	4809.7	340
PMC SB 4/50 GW X WH	4921.7	338	PMC SB 5/50 GW + WH	4814.7	339	PMC SB 6/50 FW 201-210 WH	9222.7	340
PMC SB 4/50 So WH	4821.7	338	PMC SB 5/50 GW 0 WH	4679.7	339	PMC SB 6/50 FW 201-250 WH	4717.7	340
PMC SB 4/50 WH	4820.7	338	PMC SB 5/50 GW 1 WH	4670.7	339	PMC SB 6/50 FW 211-220 WH	9223.7	340
PMC SB 5/50 FS 1,3,5-19 WH	4816.7	339	PMC SB 5/50 GW 2 WH	4671.7	339	PMC SB 6/50 FW 21-30 WH	4705.7	340
PMC SB 5/50 FS 101-150 WH	4648.7	339	PMC SB 5/50 GW 3 WH	4672.7	339	PMC SB 6/50 FW 221-230 WH	9224.7	340
PMC SB 5/50 FS 1-10 WH	4636.7	339	PMC SB 5/50 GW 4 WH	4673.7	339	PMC SB 6/50 FW 231-240 WH	9225.7	340
PMC SB 5/50 FS 11-20 WH	4637.7	339	PMC SB 5/50 GW 5 WH	4674.7	339	PMC SB 6/50 FW 241-250 WH	9226.7	340
PMC SB 5/50 FS 1-50 WH	4646.7	339	PMC SB 5/50 GW 6 WH	4675.7	339	PMC SB 6/50 FW 251-260 WH	9227.7	340
PMC SB 5/50 FS 151-200 WH	4649.7	339	PMC SB 5/50 GW 7 WH	4676.7	339	PMC SB 6/50 FW 251-300 WH	4718.7	340
PMC SB 5/50 FS 2,4,6-20 WH	4815.7	339	PMC SB 5/50 GW 8 WH	4677.7	339	PMC SB 6/50 FW 261-270 WH	9228.7	340
PMC SB 5/50 FS 201-250 WH	4650.7	339	PMC SB 5/50 GW 9 WH	4678.7	339	PMC SB 6/50 FW 271-280 WH	9229.7	340
PMC SB 5/50 FS 21-30 WH	4638.7	339	PMC SB 5/50 GW L1 WH	4682.7	339	PMC SB 6/50 FW 281-290 WH	9230.7	340
PMC SB 5/50 FS 251-300 WH	4651.7	339	PMC SB 5/50 GW L2 WH	4683.7	339	PMC SB 6/50 FW 291-300 WH	9231.7	340
PMC SB 5/50 FS 301-350 WH	4652.7	339	PMC SB 5/50 GW L3 WH	4684.7	339	PMC SB 6/50 FW 301-310 WH	9232.7	340
PMC SB 5/50 FS 31-40 WH	4639.7	339	PMC SB 5/50 GW N WH	4685.7	339	PMC SB 6/50 FW 301-350 WH	4719.7	340
PMC SB 5/50 FS 351-400 WH	4653.7	339	PMC SB 5/50 GW PE WH	4681.7	339	PMC SB 6/50 FW 311-320 WH	9233.7	340
PMC SB 5/50 FS 401-450 WH	4654.7	339	PMC SB 5/50 GW X WH	4680.7	339	PMC SB 6/50 FW 31-40 WH	4706.7	340
PMC SB 5/50 FS 41-50 WH	4640.7	339	PMC SB 5/50 So WH	4819.7	339	PMC SB 6/50 FW 321-330 WH	9234.7	340
PMC SB 5/50 FS 451-500 WH	4655.7	339	PMC SB 5/50 WH	4600.7	339	PMC SB 6/50 FW 331-340 WH	9235.7	340
PMC SB 5/50 FS 501-550 WH	4656.7	339	PMC SB 6/50 FS 1,3,5-19 WH	4808.7	341	PMC SB 6/50 FW 341-350 WH	9236.7	340
PMC SB 5/50 FS 51-100 WH	4647.7	339	PMC SB 6/50 FS 101-110 WH	9262.7	340	PMC SB 6/50 FW 351-360 WH	9237.7	340
PMC SB 5/50 FS 51-60 WH	4641.7	339	PMC SB 6/50 FS 101-150 WH	4750.7	341	PMC SB 6/50 FW 351-400 WH	4720.7	340
PMC SB 5/50 FS 551-600 WH	4657.7	339	PMC SB 6/50 FS 1-10 WH	4738.7	340	PMC SB 6/50 FW 361-370 WH	9238.7	340
PMC SB 5/50 FS 601-650 WH	4658.7	339	PMC SB 6/50 FS 111-120 WH	9263.7	340	PMC SB 6/50 FW 371-380 WH	9239.7	340
PMC SB 5/50 FS 61-70 WH	4642.7	339	PMC SB 6/50 FS 11-20 WH	4739.7	340	PMC SB 6/50 FW 381-390 WH	9240.7	340
PMC SB 5/50 FS 651-700 WH	4659.7	339	PMC SB 6/50 FS 121-130 WH	9264.7	340	PMC SB 6/50 FW 391-400 WH	9241.7	340
PMC SB 5/50 FS 701-750 WH	4660.7	339	PMC SB 6/50 FS 131-140 WH	9265.7	340	PMC SB 6/50 FW 401-410 WH	9242.7	340
PMC SB 5/50 FS 71-80 WH	4643.7	339	PMC SB 6/50 FS 141-150 WH	9266.7	340	PMC SB 6/50 FW 401-450 WH	4721.7	340
PMC SB 5/50 FS 751-800 WH	4641.7	339	PMC SB 6/50 FS 151-50 WH	4748.7	341	PMC SB 6/50 FW 411-420 WH	9243.7	340
PMC SB 5/50 FS 801-850 WH	4662.7	339	PMC SB 6/50 FS 151-160 WH	9267.7	340	PMC SB 6/50 FW 41-50 WH	4707.7	340
PMC SB 5/50 FS 81-90 WH	4644.7	339	PMC SB 6/50 FS 151-200 WH	4751.7	341	PMC SB 6/50 FW 421-430 WH	9244.7	340
PMC SB 5/50 FS 851-900 WH	4663.7	339	PMC SB 6/50 FS 161-170 WH	9268.7	340	PMC SB 6/50 FW 431-440 WH	9245.7	340
PMC SB 5/50 FS 91-100 WH	4645.7	339	PMC SB 6/50 FS 171-180 WH	9269.7	340	PMC SB 6/50 FW 441-450 WH	9246.7	340
PMC SB 5/50 FS L1,L2,L3,N,PE WH	4664.7	339	PMC SB 6/50 FS 181-190 WH	9270.7	340	PMC SB 6/50 FW 451-460 WH	9247.7	340
PMC SB 5/50 FS U1,V1,W1 WH	4666.7	339	PMC SB 6/50 FS 191-200 WH	9271.7	340	PMC SB 6/50 FW 451-500 WH	4722.7	340
PMC SB 5/50 FS U1,V1,W1,N,PE WH	4665.7	339	PMC SB 6/50 FS 2,4,6-20 WH	4807.7	341	PMC SB 6/50 FW 461-470 WH	9248.7	340
PMC SB 5/50 FS U2,V2,W2 WH	4668.7	339	PMC SB 6/50 FS 201-210 WH	9272.7	340	PMC SB 6/50 FW 471-480 WH	9249.7	340
PMC SB 5/50 FS U2,V2,W2,N,PE WH	4667.7	339	PMC SB 6/50 FS 201-250 WH	4752.7	341	PMC SB 6/50 FW 481-490 WH	9250.7	340
PMC SB 5/50 FS X1-X10 WH	4669.7	339	PMC SB 6/50 FS 211-220 WH	9273.7	340	PMC SB 6/50 FW 491-500 WH	9251.7	340
PMC SB 5/50 FW 101-150 WH	4613.7	339	PMC SB 6/50 FS 21-30 WH	4740.7	340	PMC SB 6/50 FW 501-510 WH	9252.7	340
PMC SB 5/50 FW 1-10 WH	4601.7	339	PMC SB 6/50 FS 221-230 WH	9274.7	341	PMC SB 6/50 FW 501-550 WH	4723.7	340
PMC SB 5/50 FW 11-20 WH	4602.7	339	PMC SB 6/50 FS 231-240 WH	9275.7	341	PMC SB 6/50 FW 51-100 WH	4714.7	340
PMC SB 5/50 FW 1-50 WH	4611.7	339	PMC SB 6/50 FS 241-250 WH	9276.7	341	PMC SB 6/50 FW 511-520 WH	9253.7	340
PMC SB 5/50 FW 151-200 WH	4614.7	339	PMC SB 6/50 FS 251-260 WH	9277.7	341	PMC SB 6/50 FW 51-60 WH	4708.7	340
PMC SB 5/50 FW 201-250 WH	4615.7	339	PMC SB 6/50 FS 251-300 WH	4753.7	341	PMC SB 6/50 FW 521-530 WH	9254.7	340
PMC SB 5/50 FW 21-30 WH	4603.7	339	PMC SB 6/50 FS 261-270 WH	9278.7	341	PMC SB 6/50 FW 531-540 WH	9255.7	340
PMC SB 5/50 FW 251-300 WH	4616.7	339	PMC SB 6/50 FS 271-280 WH	9279.7	341	PMC SB 6/50 FW 541-550 WH	9256.7	340
PMC SB 5/50 FW 301-350 WH	4617.7	339	PMC SB 6/50 FS 281-290 WH	9280.7	341	PMC SB 6/50 FW 551-560 WH	9257.7	340
PMC SB 5/50 FW 31-40 WH	4604.7	339	PMC SB 6/50 FS 291-300 WH	9281.7	341	PMC SB 6/50 FW 551-600 WH	4724.7	340
PMC SB 5/50 FW 351-400 WH	4618.7	339	PMC SB 6/50 FS 301-350 WH	4754.7	341	PMC SB 6/50 FW 561-570 WH	9258.7	340
PMC SB 5/50 FW 401-450 WH	4619.7	339	PMC SB 6/50 FS 31-40 WH	4741.7	340	PMC SB 6/50 FW 571-580 WH	9259.7	340
PMC SB 5/50 FW 41-50 WH	4605.7	339	PMC SB 6/50 FS 351-400 WH	4755.7	341	PMC SB 6/50 FW 581-590 WH	9260.7	340
PMC SB 5/50 FW 451-500 WH	4620.7	339	PMC SB 6/50 FS 401-450 WH	4756.7	341	PMC SB 6/50 FW 591-600 WH	9261.7	340
PMC SB 5/50 FW 501-550 WH	4621.7	339	PMC SB 6/50 FS 41-50 WH	4742.7	340	PMC SB 6/50 FW 601-650 WH	4725.7	340
PMC SB 5/50 FW 51-100 WH	4612.7	339	PMC SB 6/50 FS 451-500 WH	4757.7	341	PMC SB 6/50 FW 61-70 WH	4709.7	340
PMC SB 5/50 FW 51-60 WH	4606.7	339	PMC SB 6/50 FS 501-550 WH	4758.7	341	PMC SB 6/50 FW 651-700 WH	4726.7	340
PMC SB 5/50 FW 551-600 WH	4622.7	339	PMC SB 6/50 FS 51-100 WH	4749.7	341	PMC SB 6/50 FW 701-750 WH	4727.7	340
PMC SB 5/50 FW 601-650 WH	4623.7	339	PMC SB 6/50 FS 51-60 WH	4743.7	340	PMC SB 6/50 FW 71-80 WH	4710.7	340
PMC SB 5/50 FW 61-70 WH	4607.7	339	PMC SB 6/50 FS 551-600 WH	4759.7	341	PMC SB 6/50 FW 751-800 WH	4728.7	340
PMC SB 5/50 FW 651-700 WH	4624.7	339	PMC SB 6/50 FS 601-650 WH	4760.7	341	PMC SB 6/50 FW 801-850 WH	4729.7	340
PMC SB 5/50 FW 701-750 WH	4625.7	339	PMC SB 6/50 FS 61-70 WH	4744.7	340	PMC SB 6/50 FW 81-90 WH	4711.7	340
PMC SB 5/50 FW 71-80 WH	4608.7	339	PMC SB 6/50 FS 651-700 WH	4761.7	341	PMC SB 6/50 FW 851-900 WH	4730.7	340
PMC SB 5/50 FW 751-800 WH	4626.7	339	PMC SB 6/50 FS 701-750 WH	4762.7	341	PMC SB 6/50 FW 901-950 WH	4731.7	340

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PMC SB 6/50 FW 91-100 WH	4712.7	340	PP 1.00 mm	1591.0	413	QI 4 YE	2742.2	289
PMC SB 6/50 FW L1,L2,L3,N,PE WH	4732.7	340	PPE 0.18mm	1649.0	412	QI 4 YE	2752.2	289
PMC SB 6/50 FW U1,V1,W1 WH	4734.7	340	PPE 0.25 mm	1650.0	412	QI 40 YE	2746.2	289
PMC SB 6/50 FW U1,V1,W1,N,PE WH	4733.7	340	PPE 0.35 mm	1651.0	412	QKS 1	2534.0	434
PMC SB 6/50 FW U2,V2,W2 WH	4736.7	340	PPE 0.50 mm	1652.0	413	QKS 1	2535.0	434
PMC SB 6/50 FW U2,V2,W2,N,PE WH	4735.7	340	PPE 0.70 mm	1653.0	413	QKS 1	2536.0	434
PMC SB 6/50 FW X1-X10 WH	4737.7	340	PPE 1.00 mm	1654.0	413	QKS 2,5	2537.0	434
PMC SB 6/50 GS - WH	4804.7	341	PPE Ink ED 0.35 mm	9822.0	413	QKS 2,5	2538.0	434
PMC SB 6/50 GS 0 WH	4797.7	341	PPE Ink-ED 0.25 mm	9821.0	413	QKS 2,5	2539.0	434
PMC SB 6/50 GS 1 WH	4788.7	341	PPP 0.18 mm	1615.0	412	QKS 2,5	2540.0	434
PMC SB 6/50 GS 2 WH	4789.7	341	PPP 0.25 mm	1616.0	412	QKS 6	2541.0	434
PMC SB 6/50 GS 3 WH	4790.7	341	PPP 0.35 mm	1617.0	412	QKS 6	2542.0	434
PMC SB 6/50 GS 4 WH	4791.7	341	PPP 0.50 mm	1618.0	413	QKS 6	2543.0	434
PMC SB 6/50 GS 5 WH	4792.7	341	PPP 0.70 mm	1619.0	413	QKS 6	2544.0	434
PMC SB 6/50 GS 6 WH	4793.7	341	PPP 1.00 mm	1620.0	413	QKS G 1	3064.0	434
PMC SB 6/50 GS 7 WH	4794.7	341	Pressure ball	1630.0	409	QKS G 1	3065.0	434
PMC SB 6/50 GS 8 WH	4795.7	341	PS 2,3	2007.0	317	QKS G 1	3066.0	434
PMC SB 6/50 GS 9 WH	4796.7	341	PS 4	2051.0	317	QKS G 2,5	3067.0	434
PMC SB 6/50 GS L1 WH	4800.7	341	PTK 10/DU BG	1134.2	71	QKS G 2,5	3068.0	434
PMC SB 6/50 GS L2 WH	4801.7	341	PTK 10/DU/STB BG	1135.2	71	QKS G 2,5	3069.0	434
PMC SB 6/50 GS L3 WH	4802.7	341	PTK 10/LT BG	1130.2	70	QKS G 6	3070.0	434
PMC SB 6/50 GS N WH	4803.7	341	PTK 10/LT/STB BG	1131.2	70	QKS G 6	3071.0	434
PMC SB 6/50 GS PE WH	4799.7	341	PTK 10/QT BG	1132.2	70	QKS G 6	3072.0	434
PMC SB 6/50 GS X WH	4798.7	341	PTK 10/QT/STB BG	1133.2	71	QKS G 6	3073.0	434
PMC SB 6/50 GW - WH	4805.7	341	PZ RG	1474.0	425	QL 2	2008.0	291
PMC SB 6/50 GW + WH	4806.7	341	PZ RG eco	3060.0	425	QL 2	2053.0	291
PMC SB 6/50 GW 0 WH	4781.7	341	PZ TF plus	17094.0	423	QL 2	2076.0	291
PMC SB 6/50 GW 1 WH	4772.7	341	PZ TF plus Set	17095.0	423	QL 2	2106.0	291
PMC SB 6/50 GW 2 WH	4773.7	341	PZD 3	3135.0	424	QL 2	2306.0	291
PMC SB 6/50 GW 3 WH	4774.7	341	PZF 6	1472.0	425	QS 0,5 m	2519.0	296
PMC SB 6/50 GW 4 WH	4775.7	341	PZI 6	1468.0	425	QS 0,5m	2386.0	296
PMC SB 6/50 GW 5 WH	4776.7	341	PZI 6 eco	3059.0	425	QS 0,5m	2387.0	296
PMC SB 6/50 GW 6 WH	4777.7	341	PZN 10	1470.0	425	QS 10	2016.0	296
PMC SB 6/50 GW 7 WH	4778.7	341	PZN 10 eco	3058.0	425	QS 10	2058.0	296
PMC SB 6/50 GW 8 WH	4779.7	341	PZU 16	1465.0	424	QS 10	2084.0	296
PMC SB 6/50 GW 9 WH	4780.7	341	PZU 16 eco	3056.0	424	QS 10	2111.0	296
PMC SB 6/50 GW L1 WH	4784.7	341	PZU 25	3057.0	424	QS 10	2121.0	296
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PMC SB 6/50 GW L3 WH	4786.7	341	PZU 50	1467.0	424	QS 10	2420.0	296
PMC SB 6/50 GW N WH	4787.7	341	PZU 6	1100.0	424	QS 2	2013.0	296
PMC SB 6/50 GW PE WH	4783.7	341	PZU 6/S	3055.0	424	QS 2	2055.0	296
PMC SB 6/50 GW X WH	4782.7	341				QS 2	2081.0	296
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PMC SB 6/50 WH	4702.7	340	<b>Q</b>			QS 2	2118.0	296
PMC SB 7,5/40 So WH	3327.7	341	Q 0,5 m/100 poles	2151.0	288	QS 2	2366.0	296
PMC SB 8/40 FS 105-112 WH	9320.7	342	Q 0,5 m/100 poles	2152.0	296	QS 2	2410.0	298
PMC SB 8/40 FS 113-120 WH	9321.7	342	Q 0,5 m/83 poles	2150.0	289	QS 2	2411.0	298
PMC SB 8/40 FS 1-40 WH	9286.7	342	Q 0,5 m/83 poles	2153.0	289	QS 2	2412.0	298
PMC SB 8/40 FS 17-24 WH	9309.7	342	Q 0,5 m/83 poles	2154.0	288	QS 2	2413.0	299
PMC SB 8/40 FS 1-8 WH	9307.7	342	Q 10	2022.0	289	QS 2	2417.0	296
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PMC SB 8/40 FS 41-80 WH	9287.7	342	Q 10	2167.0	290	QS 2/120/12	17016.0	299
PMC SB 8/40 FS 49-56 WH	9313.7	342	Q 10	2266.0	290	QS 2/16	17008.0	298
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PMC SB 8/40 FS 65-72 WH	9315.7	342	Q 10	2570.0	288	QS 2/50	17012.0	298
PMC SB 8/40 FS 73-80 WH	9316.7	342	Q 10	2835.0	288	QS 20	2587.0	296
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PMC SB 8/40 FW 73-80 WH	9300.7	342	Q 3	2423.0	288	QS 4	2110.0	296
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RKD 4/RC BG	1189.2	55	SB 5/10 FS R1;S1;T1 WH	2472.0011	348	SB 5/10 GS 21 WH	2434.0021	349
RKD 4/RD1 BG	2324.2	53	SB 5/10 FS R10;S10;T10 WH	2472.0020	348	SB 5/10 GS 22 WH	2434.0022	349
RKD 4/RD5 BG	2440.2	53	SB 5/10 FS R2;S2;T2 WH	2472.0012	348	SB 5/10 GS 23 WH	2434.0023	349
RKD 4/SV BG	1027.2	49	SB 5/10 FS R3;S3;T3 WH	2472.0013	348	SB 5/10 GS 24 WH	2434.0024	349
RKD 4/SV BU	1027.5	49	SB 5/10 FS R4;S4;T4 WH	2472.0014	348	SB 5/10 GS 25 WH	2434.0025	349
RKD 4/SV OG	1027.3	49	SB 5/10 FS R5;S5;T5 WH	2472.0015	348	SB 5/10 GS 26 WH	2434.0026	349
RKD 4/UG/230V/5kA BG	1034.2	55	SB 5/10 FS R6;S6;T6 WH	2472.0016	348	SB 5/10 GS 27 WH	2434.0027	349
RKD 4/UG/600V/5kA BG	1048.2	55	SB 5/10 FS R7;S7;T7 WH	2472.0017	348	SB 5/10 GS 28 WH	2434.0028	349
RKD 4/UG/90V/5kA BG	1033.2	55	SB 5/10 FS R8;S8;T8 WH	2472.0018	348	SB 5/10 GS 29 WH	2434.0029	349
RKD 4/UV/130V BG	1031.2	55	SB 5/10 FS R9;S9;T9 WH	2472.0019	348	SB 5/10 GS 3 WH	2434.0003	349
RKD 4/UV/275V BG	1051.2	55	SB 5/10 FS U;V;W;N;PE WH	2473.0001	348	SB 5/10 GS 30 WH	2434.0030	349
RKD 4/UV/30V BG	1023.2	55	SB 5/10 FS U1;V1;W1 WH	2472.0021	348	SB 5/10 GS 31 WH	2434.0031	349
RKD 4/UV/60V BG	1024.2	55	SB 5/10 FS U10;V10;W10 WH	2472.0030	348	SB 5/10 GS 32 WH	2434.0032	349
RKD 4/UV/75V BG	1029.2	55	SB 5/10 FS U2;V2;W2 WH	2472.0022	348	SB 5/10 GS 33 WH	2434.0033	349
RKDG 4 BG	2584.2	50	SB 5/10 FS U3;V3;W3 WH	2472.0023	348	SB 5/10 GS 34 WH	2434.0034	349
RKDG 4 BU	2584.5	50	SB 5/10 FS U4;V4;W4 WH	2472.0024	348	SB 5/10 GS 35 WH	2434.0035	349
RKDG 4 Ex BG	1496.2	251	SB 5/10 FS U5;V5;W5 WH	2472.0025	348	SB 5/10 GS 36 WH	2434.0036	349
RKDG 4 Ex BU	1496.5	251	SB 5/10 FS U6;V6;W6 WH	2472.0026	348	SB 5/10 GS 37 WH	2434.0037	349
RKDG 4/SV BG	17048.2	50	SB 5/10 FS U7;V7;W7 WH	2472.0027	348	SB 5/10 GS 38 WH	2434.0038	349
RKDG 4/SV BU	17048.5	50	SB 5/10 FS U8;V8;W8 WH	2472.0028	348	SB 5/10 GS 39 WH	2434.0039	349
			SB 5/10 FS U9;V9;W9 WH	2472.0029	348	SB 5/10 GS 4 WH	2434.0004	349
			SB 5/10 FS X1;Y1;Z1 WH	2472.0001	348	SB 5/10 GS 40 WH	2434.0040	349
S/M 12-MS/EMV	17728.2	489	SB 5/10 FS X10;Y10;Z10 WH	2472.0010	348	SB 5/10 GS 41 WH	2434.0041	349
S/M 12x1,5	4140.2	487	SB 5/10 FS X2;Y2;Z2 WH	2472.0002	348	SB 5/10 GS 42 WH	2434.0042	349
S/M 12x1,5-MS	4186.2	489	SB 5/10 FS X3;Y3;Z3 WH	2472.0003	348	SB 5/10 GS 43 WH	2434.0043	349
S/M 16-MS/EMV	17729.2	489	SB 5/10 FS X4;Y4;Z4 WH	2472.0004	348	SB 5/10 GS 44 WH	2434.0044	349
S/M 16x1,5	4141.2	487	SB 5/10 FS X5;Y5;Z5 WH	2472.0005	348	SB 5/10 GS 45 WH	2434.0045	349
S/M 16x1,5-MS	4187.2	489	SB 5/10 FS X6;Y6;Z6 WH	2472.0006	348	SB 5/10 GS 46 WH	2434.0046	349
S/M 20-MS/EMV	17730.2	489	SB 5/10 FS X7;Y7;Z7 WH	2472.0007	348	SB 5/10 GS 47 WH	2434.0047	349
S/M 20x1,5	4142.2	487	SB 5/10 FS X8;Y8;Z8 WH	2472.0008	348	SB 5/10 GS 48 WH	2434.0048	349
S/M 20x1,5-MS	4188.2	489	SB 5/10 FS X9;Y9;Z9 WH	2472.0009	348	SB 5/10 GS 49 WH	2434.0049	349
S/M 25-MS/EMV	17731.2	489	SB 5/10 FW 1-10 WH	2431.0001	348	SB 5/10 GS 5 WH	2434.0005	349
S/M 25x1,5	4143.2	487	SB 5/10 FW 11-20 WH	2431.0002	348	SB 5/10 GS 50 WH	2434.0050	349
S/M 25x1,5-MS	4189.2	489	SB 5/10 FW 21-30 WH	2431.0003	348	SB 5/10 GS 51 WH	2434.0051	349
S/M 32-MS/EMV	17732.2	489	SB 5/10 FW 31-40 WH	2431.0004	348	SB 5/10 GS 52 WH	2434.0052	349
S/M 32x1,5	4144.2	487	SB 5/10 FW 41-50 WH	2431.0005	348	SB 5/10 GS 53 WH	2434.0053	349
S/M 32x1,5-MS	4190.2	489	SB 5/10 FW 51-60 WH	2431.0006	348	SB 5/10 GS 54 WH	2434.0054	349
S/M 40-MS/EMV	17733.2	489	SB 5/10 FW 61-70 WH	2431.0007	348	SB 5/10 GS 55 WH	2434.0055	349
S/M 40x1,5	4145.2	487	SB 5/10 FW 71-80 WH	2431.0008	348	SB 5/10 GS 56 WH	2434.0056	349
S/M 40x1,5-MS	4191.2	489	SB 5/10 FW 81-90 WH	2431.0009	348	SB 5/10 GS 57 WH	2434.0057	349
S/M 50-MS/EMV	17734.2	489	SB 5/10 FW 91-100 WH	2431.0010	348	SB 5/10 GS 58 WH	2434.0058	349
S/M 50x1,5	4146.2	487	SB 5/10 FW L1;L2;L3;N;Earth with circuit WH	2471.0004	348	SB 5/10 GS 59 WH	2434.0059	349
S/M 50x1,5-MS	4192.2	489	SB 5/10 FW L1;L2;L3;N;PE WH	2471.0003	348	SB 5/10 GS 6 WH	2434.0006	349
S/M 63-MS/EMV	17735.2	489	SB 5/10 FW R;S;T;N;Earth with circuit WH	2471.0002	348	SB 5/10 GS 60 WH	2434.0060	349
S/M 63x1,5	4147.2	487	SB 5/10 FW R1;S1;T1 WH	2404.0011	348	SB 5/10 GS 61 WH	2434.0061	349
S/M 63x1,5-MS	4193.2	489	SB 5/10 FW R10;S10;T10 WH	2404.0020	348	SB 5/10 GS 62 WH	2434.0062	349
S/PG 11	4517.8	491	SB 5/10 FW R2;S2;T2 WH	2404.0012	348	SB 5/10 GS 63 WH	2434.0063	349
S/PG 11-MS	4537.8	492	SB 5/10 FW R3;S3;T3 WH	2404.0013	348	SB 5/10 GS 64 WH	2434.0064	349
S/PG 13,5	4518.8	491	SB 5/10 FW R4;S4;T4 WH	2404.0014	348	SB 5/10 GS 65 WH	2434.0065	349
S/PG 13,5-MS	4538.8	492	SB 5/10 FW R5;S5;T5 WH	2404.0015	348	SB 5/10 GS 66 WH	2434.0066	349
S/PG 16	4519.8	491	SB 5/10 FW R6;S6;T6 WH	2404.0016	348	SB 5/10 GS 67 WH	2434.0067	349
S/PG 16-MS	4539.8	492	SB 5/10 FW R7;S7;T7 WH	2404.0017	348	SB 5/10 GS 68 WH	2434.0068	349
S/PG 21	4520.8	491	SB 5/10 FW R8;S8;T8 WH	2404.0018	348	SB 5/10 GS 69 WH	2434.0069	349
S/PG 21-MS	4540.8	492	SB 5/10 FW R9;S9;T9 WH	2404.0019	348	SB 5/10 GS 7 WH	2434.0007	349
S/PG 29	4521.8	491	SB 5/10 FW U;V;W;N;PE WH	2471.0001	348	SB 5/10 GS 70 WH	2434.0070	349
S/PG 29-MS	4541.8	492	SB 5/10 FW U1;V1;W1 WH	2404.0021	348	SB 5/10 GS 71 WH	2434.0071	349
S/PG 36	4522.8	491	SB 5/10 FW U10;V10;W10 WH	2404.0030	348	SB 5/10 GS 72 WH	2434.0072	349
S/PG 36-MS	4542.8	492	SB 5/10 FW U2;V2;W2 WH	2404.0022	348	SB 5/10 GS 73 WH	2434.0073	349
S/PG 42	4523.8	491	SB 5/10 FW U3;V3;W3 WH	2404.0023	348	SB 5/10 GS 74 WH	2434.0074	349
S/PG 42-MS	4543.8	492	SB 5/10 FW U4;V4;W4 WH	2404.0024	348	SB 5/10 GS 75 WH	2434.0075	349
S/PG 48	4524.8	491	SB 5/10 FW U5;V5;W5 WH	2404.0025	348	SB 5/10 GS 76 WH	2434.0076	349
S/PG 48-MS	4544.8	492	SB 5/10 FW U6;V6;W6 WH	2404.0026	348	SB 5/10 GS 77 WH	2434.0077	349
S/PG 7	4515.8	491	SB 5/10 FW U7;V7;W7 WH	2404.0027	348	SB 5/10 GS 78 WH	2434.0078	349
S/PG 7-MS	4535.8	492	SB 5/10 FW U8;V8;W8 WH	2404.0028	348	SB 5/10 GS 79 WH	2434.0079	349
S/PG 9	4516.8	491	SB 5/10 FW U9;V9;W9 WH	2404.0029	348	SB 5/10 GS 8 WH	2434.0008	349
S/PG 9-MS	4536.8	492	SB 5/10 FW X1;Y1;Z1 WH	2404.0001	348	SB 5/10 GS 80 WH	2434.0080	349

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SB 5/10 GS 83 WH	2434.0083	349	SB 5/10 GW 41 WH	2432.0041	348	SB 5/10 GW T3 WH	2474.0033	349
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SB 5/10 GS 85 WH	2434.0085	349	SB 5/10 GW 43 WH	2432.0043	348	SB 5/10 GW V WH	2474.0022	349
SB 5/10 GS 86 WH	2434.0086	349	SB 5/10 GW 44 WH	2432.0044	348	SB 5/10 GW W WH	2474.0023	349
SB 5/10 GS 87 WH	2434.0087	349	SB 5/10 GW 45 WH	2432.0045	348	SB 5/10 GW X WH	2474.0024	349
SB 5/10 GS 88 WH	2434.0088	349	SB 5/10 GW 46 WH	2432.0046	348	SB 5/10 GW Y WH	2474.0025	349
SB 5/10 GS 89 WH	2434.0089	349	SB 5/10 GW 47 WH	2432.0047	348	SB 5/10 GW Z WH	2474.0026	349
SB 5/10 GS 9 WH	2434.0009	349	SB 5/10 GW 48 WH	2432.0048	348	SB 5/10 So WH	2431.7	348
SB 5/10 GS 90 WH	2434.0090	349	SB 5/10 GW 49 WH	2432.0049	348	SB 5/10 WH	2430.0	348
SB 5/10 GS 91 WH	2434.0091	349	SB 5/10 GW 5 WH	2432.0005	348	SB 6/10 FS 1-10 WH	2037.0001	350
SB 5/10 GS 92 WH	2434.0092	349	SB 5/10 GW 50 WH	2432.0050	348	SB 6/10 FS 11-20 WH	2037.0002	350
SB 5/10 GS 93 WH	2434.0093	349	SB 5/10 GW 51 WH	2432.0051	348	SB 6/10 FS 21-30 WH	2037.0003	350
SB 5/10 GS 94 WH	2434.0094	349	SB 5/10 GW 52 WH	2432.0052	348	SB 6/10 FS 31-40 WH	2037.0004	350
SB 5/10 GS 95 WH	2434.0095	349	SB 5/10 GW 53 WH	2432.0053	348	SB 6/10 FS 41-50 WH	2037.0005	350
SB 5/10 GS 96 WH	2434.0096	349	SB 5/10 GW 54 WH	2432.0054	348	SB 6/10 FS 51-60 WH	2037.0006	350
SB 5/10 GS 97 WH	2434.0097	349	SB 5/10 GW 55 WH	2432.0055	348	SB 6/10 FS 61-70 WH	2037.0007	350
SB 5/10 GS 98 WH	2434.0098	349	SB 5/10 GW 56 WH	2432.0056	348	SB 6/10 FS 71-80 WH	2037.0008	350
SB 5/10 GS 99 WH	2434.0099	349	SB 5/10 GW 57 WH	2432.0057	348	SB 6/10 FS 81-90 WH	2037.0009	350
SB 5/10 GS A WH	2475.0001	349	SB 5/10 GW 58 WH	2432.0058	348	SB 6/10 FS 91-100 WH	2037.0010	350
SB 5/10 GS B WH	2475.0002	349	SB 5/10 GW 59 WH	2432.0059	348	SB 6/10 FS L1;L2;L3;N;Earth with circuit	2149.0004	350
SB 5/10 GS C WH	2475.0003	349	SB 5/10 GW 6 WH	2432.0006	348	SB 6/10 FS L1;L2;L3;N;PE	2149.0003	350
SB 5/10 GS D WH	2475.0004	349	SB 5/10 GW 60 WH	2432.0060	348	SB 6/10 FS R;S;T;N;Earth with circuit	2149.0002	350
SB 5/10 GS E WH	2475.0005	349	SB 5/10 GW 61 WH	2432.0061	348	SB 6/10 FS R1;S1;T1 WH	2990.0011	350
SB 5/10 GS Earth with circuit WH	2475.0038	349	SB 5/10 GW 62 WH	2432.0062	348	SB 6/10 FS R10;S10;T10 WH	2990.0020	350
SB 5/10 GS Earth WH	2475.0037	349	SB 5/10 GW 63 WH	2432.0063	349	SB 6/10 FS R2;S2;T2 WH	2990.0012	350
SB 5/10 GS F WH	2475.0006	349	SB 5/10 GW 64 WH	2432.0064	349	SB 6/10 FS R3;S3;T3 WH	2990.0013	350
SB 5/10 GS G WH	2475.0007	349	SB 5/10 GW 65 WH	2432.0065	349	SB 6/10 FS R4;S4;T4 WH	2990.0014	350
SB 5/10 GS H WH	2475.0008	349	SB 5/10 GW 66 WH	2432.0066	349	SB 6/10 FS R5;S5;T5 WH	2990.0015	350
SB 5/10 GS I WH	2475.0009	349	SB 5/10 GW 67 WH	2432.0067	349	SB 6/10 FS R6;S6;T6 WH	2990.0016	350
SB 5/10 GS J WH	2475.0010	349	SB 5/10 GW 68 WH	2432.0068	349	SB 6/10 FS R7;S7;T7 WH	2990.0017	350
SB 5/10 GS K WH	2475.0011	349	SB 5/10 GW 69 WH	2432.0069	349	SB 6/10 FS R8;S8;T8 WH	2990.0018	350
SB 5/10 GS L WH	2475.0012	349	SB 5/10 GW 7 WH	2432.0007	348	SB 6/10 FS R9;S9;T9 WH	2990.0019	350
SB 5/10 GS M WH	2475.0013	349	SB 5/10 GW 70 WH	2432.0070	349	SB 6/10 FS U;V;W;N;PE	2149.0001	350
SB 5/10 GS MP WH	2475.0029	349	SB 5/10 GW 71 WH	2432.0071	349	SB 6/10 FS U1;V1;W1 WH	2990.0021	350
SB 5/10 GS N WH	2475.0014	349	SB 5/10 GW 72 WH	2432.0072	349	SB 6/10 FS U10;V10;W10 WH	2990.0030	350
SB 5/10 GS O WH	2475.0015	349	SB 5/10 GW 73 WH	2432.0073	349	SB 6/10 FS U2;V2;W2 WH	2990.0022	350
SB 5/10 GS P WH	2475.0016	349	SB 5/10 GW 74 WH	2432.0074	349	SB 6/10 FS U3;V3;W3 WH	2990.0023	350
SB 5/10 GS PE WH	2475.0027	349	SB 5/10 GW 75 WH	2432.0075	349	SB 6/10 FS U4;V4;W4 WH	2990.0024	350
SB 5/10 GS PEN WH	2475.0028	349	SB 5/10 GW 76 WH	2432.0076	349	SB 6/10 FS U5;V5;W5 WH	2990.0025	350
SB 5/10 GS Q WH	2475.0017	349	SB 5/10 GW 77 WH	2432.0077	349	SB 6/10 FS U6;V6;W6 WH	2990.0026	350
SB 5/10 GS R WH	2475.0018	349	SB 5/10 GW 78 WH	2432.0078	349	SB 6/10 FS U7;V7;W7 WH	2990.0027	350
SB 5/10 GS S WH	2475.0019	349	SB 5/10 GW 79 WH	2432.0079	349	SB 6/10 FS U8;V8;W8 WH	2990.0028	350
SB 5/10 GS SL WH	2475.0030	349	SB 5/10 GW 8 WH	2432.0008	348	SB 6/10 FS U9;V9;W9 WH	2990.0029	350
SB 5/10 GS T WH	2475.0020	349	SB 5/10 GW 80 WH	2432.0080	349	SB 6/10 FS X1;Y1;Z1 WH	2990.0001	350
SB 5/10 GS T1 WH	2475.0031	349	SB 5/10 GW 81 WH	2432.0081	349	SB 6/10 FS X10;Y10;Z10 WH	2990.0010	350
SB 5/10 GS T2 WH	2475.0032	349	SB 5/10 GW 82 WH	2432.0082	349	SB 6/10 FS X2;Y2;Z2 WH	2990.0002	350
SB 5/10 GS T3 WH	2475.0033	349	SB 5/10 GW 83 WH	2432.0083	349	SB 6/10 FS X3;Y3;Z3 WH	2990.0003	350
SB 5/10 GS U WH	2475.0021	349	SB 5/10 GW 84 WH	2432.0084	349	SB 6/10 FS X4;Y4;Z4 WH	2990.0004	350
SB 5/10 GS V WH	2475.0022	349	SB 5/10 GW 85 WH	2432.0085	349	SB 6/10 FS X5;Y5;Z5 WH	2990.0005	350
SB 5/10 GS W WH	2475.0023	349	SB 5/10 GW 86 WH	2432.0086	349	SB 6/10 FS X6;Y6;Z6 WH	2990.0006	350
SB 5/10 GS X WH	2475.0024	349	SB 5/10 GW 87 WH	2432.0087	349	SB 6/10 FS X7;Y7;Z7 WH	2990.0007	350
SB 5/10 GS Y WH	2475.0025	349	SB 5/10 GW 88 WH	2432.0088	349	SB 6/10 FS X8;Y8;Z8 WH	2990.0008	350
SB 5/10 GS Z WH	2475.0026	349	SB 5/10 GW 89 WH	2432.0089	349	SB 6/10 FS X9;Y9;Z9 WH	2990.0009	350
SB 5/10 GW - WH	2474.0035	349	SB 5/10 GW 9 WH	2432.0009	348	SB 6/10 FW 1-10 WH	2036.0001	350
SB 5/10 GW ~ WH	2474.0036	349	SB 5/10 GW 90 WH	2432.0090	349	SB 6/10 FW 11-20 WH	2036.0002	350
SB 5/10 GW + WH	2474.0034	349	SB 5/10 GW 91 WH	2432.0091	349	SB 6/10 FW 21-30 WH	2036.0003	350
SB 5/10 GW 1 WH	2432.0001	348	SB 5/10 GW 92 WH	2432.0092	349	SB 6/10 FW 31-40 WH	2036.0004	350
SB 5/10 GW 10 WH	2432.0010	348	SB 5/10 GW 93 WH	2432.0093	349	SB 6/10 FW 41-50 WH	2036.0005	350
SB 5/10 GW 100 WH	2432.0100	349	SB 5/10 GW 94 WH	2432.0094	349	SB 6/10 FW 51-60 WH	2036.0006	350
SB 5/10 GW 11 WH	2432.0011	348	SB 5/10 GW 95 WH	2432.0095	349	SB 6/10 FW 61-70 WH	2036.0007	350
SB 5/10 GW 12 WH	2432.0012	348	SB 5/10 GW 96 WH	2432.0096	349	SB 6/10 FW 71-80 WH	2036.0008	350
SB 5/10 GW 13 WH	2432.0013	348	SB 5/10 GW 97 WH	2432.0097	349	SB 6/10 FW 81-90 WH	2036.0009	350
SB 5/10 GW 14 WH	2432.0014	348	SB 5/10 GW 98 WH	2432.0098	349	SB 6/10 FW 91-100 WH	2036.0010	350
SB 5/10 GW 15 WH	2432.0015	348	SB 5/10 GW 99 WH	2432.0099	349	SB 6/10 FW L1;L2;L3;N;Earth with circuit WH	2040.0004	350
SB 5/10 GW 16 WH	2432.0016	348	SB 5/10 GW A WH	2474.0001	349	SB 6/10 FW L1;L2;L3;N;PE WH	2040.0003	350
SB 5/10 GW 17 WH	2432.0017	348	SB 5/10 GW B WH	2474.0002	349	SB 6/10 FW R;S;T;N;Earth with circuit WH	2040.0002	350
SB 5/10 GW 18 WH	2432.0018	348	SB 5/10 GW C WH	2474.0003	349	SB 6/10 FW R1;S1;T1 WH	2989.0011	350
SB 5/10 GW 19 WH	2432.0019	348	SB 5/10 GW D WH	2474.0004	349	SB 6/10 FW R10;S10;T10 WH	2989.0020	350
SB 5/10 GW 2 WH	2432.0002	348	SB 5/10 GW E WH	2474.0005	349	SB 6/10 FW R2;S2;T2 WH	2989.0012	350
SB 5/10 GW 20 WH	2432.0020	348	SB 5/10 GW Earth with circuit WH	2474.0038	349	SB 6/10 FW R3;S3;T3 WH	2989.0013	350
SB 5/10 GW 21 WH	2432.0021	348	SB 5/10 GW Earth WH	2474.0037	349	SB 6/10 FW R4;S4;T4 WH	2989.0014	350
SB 5/10 GW 22 WH	2432.0022	348	SB 5/10 GW F WH	2474.0006	349	SB 6/10 FW R5;S5;T5 WH	2989.0015	350
SB 5/10 GW 23 WH	2432.0023	348	SB 5/10 GW G WH	2474.0007	349	SB 6/10 FW R6;S6;T6 WH	2989.0016	350
SB 5/10 GW 24 WH	2432.0024	348	SB 5/10 GW H WH	2474.0008	349	SB 6/10 FW R7;S7;T7 WH	2989.0017	350
SB 5/10 GW 25 WH	2432.0025	348	SB 5/10 GW I WH	2474.0009	349	SB 6/10 FW R8;S8;T8 WH	2989.0018	350
SB 5/10 GW 26 WH	2432.0026	348	SB 5/10 GW J WH	2474.0010	349	SB 6/10 FW R9;S9;T9 WH	2989.0019	350
SB 5/10 GW 27 WH	2432.0027	348	SB 5/10 GW K WH	2474.0011	349	SB 6/10 FW U;V;W;N;PE WH	2040.0001	350
SB 5/10 GW 28 WH	2432.0028	348	SB 5/10 GW L WH	2474.0012	349	SB 6/10 FW U1;V1;W1 WH	2989.0021	350
SB 5/10 GW 29 WH	2432.0029	348	SB 5/10 GW M WH	2474.0013	349	SB 6/10 FW U10;V10;W10 WH	2989.0030	350
SB 5/10 GW 3 WH	2432.0003	348	SB 5/10 GW MP WH	2474.0029	349	SB 6/10 FW U2;V2;W2 WH	2989.0022	350
SB 5/10 GW 30 WH	2432.0030	348	SB 5/10 GW N WH	2474.0014	349	SB 6/10 FW U3;V3;W3 WH	2989.0023	350
SB 5/10 GW 31 WH	2432.0031	348	SB 5/10 GW O WH	2474.0015	349	SB 6/10 FW U4;V4;W4 WH	2989.0024	350
SB 5/10 GW 32 WH	2432.0032	348	SB 5/10 GW P WH	2474.0016	349	SB 6/10 FW U5;V5;W5 WH	2989.0025	350
SB 5/10 GW 33 WH	2432.0033	348	SB 5/10 GW PE WH	2474.0027	349	SB 6/10 FW U6;V6;W6 WH	2989.0026	350
SB 5/10 GW 34 WH	2432.0034	348	SB 5/10 GW PEN WH	2474.0028	349	SB 6/10 FW U7;V7;W7 WH	2989.0027	350
SB 5/10 GW 35 WH	2432.0035	348	SB 5/10 GW Q WH	2474.0017	349	SB 6/10 FW U8;V8;W8 WH	2989.0028	350
SB 5/10 GW 36 WH	2432.0036	348	SB 5/10 GW R WH	2474.0018	349	SB 6/10 FW U9;V9;W9 WH	2989.0029	350
SB 5/10 GW 37 WH	2432.0037	348	SB 5/10 GW S WH	2474.0019	349	SB 6/10 FW X1;Y1;Z1 WH	2989.0001	350
SB 5/10 GW 38 WH	2432.0038	348	SB 5/10 GW SL WH	2474.0030	349	SB 6/10 FW X10;Y10;Z10 WH	2989.0010	350
SB 5/10 GW 39 WH	2432.0039	348	SB 5/10 GW T WH	2474.0020	349	SB 6/10 FW X2;Y2;Z2 WH	2989.0002	350



Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
SB 6/10 GW T3 WH	2157.0033	351	SB 8/8 FW U5;V5;W5 WH	9480.0025	352	SB 8/8 GW Earth WH	9484.0037	353
SB 6/10 GW U WH	2157.0021	351	SB 8/8 FW U6;V6;W6 WH	9480.0026	352	SB 8/8 GW F WH	9484.0006	352
SB 6/10 GW V WH	2157.0022	351	SB 8/8 FW U7;V7;W7 WH	9480.0027	352	SB 8/8 GW G WH	9484.0007	352
SB 6/10 GW W WH	2157.0023	351	SB 8/8 FW U8;V8;W8 WH	9480.0028	352	SB 8/8 GW H WH	9484.0008	352
SB 6/10 GW X WH	2157.0024	351	SB 8/8 FW U9;V9;W9 WH	9480.0029	352	SB 8/8 GW I WH	9484.0009	352
SB 6/10 GW Y WH	2157.0025	351	SB 8/8 FW X1;Y1;Z1 WH	9480.0001	352	SB 8/8 GW J WH	9484.0010	352
SB 6/10 GW Z WH	2157.0026	351	SB 8/8 FW X10;Y10;Z10 WH	9480.0010	352	SB 8/8 GW K WH	9484.0011	352
SB 6/10 So WH	2036.7	350	SB 8/8 FW X2;Y2;Z2 WH	9480.0002	352	SB 8/8 GW L WH	9484.0012	352
SB 6/10 WH	2035.0	350	SB 8/8 FW X3;Y3;Z3 WH	9480.0003	352	SB 8/8 GW L1 WH	9478.0012	352
SB 8/8 FS 105-112 WH	9477.0014	352	SB 8/8 FW X4;Y4;Z4 WH	9480.0004	352	SB 8/8 GW L2 WH	9478.0013	352
SB 8/8 FS 113-120 WH	9477.0015	352	SB 8/8 FW X5;Y5;Z5 WH	9480.0005	352	SB 8/8 GW L3 WH	9478.0014	352
SB 8/8 FS 17-24 WH	9477.0003	352	SB 8/8 FW X6;Y6;Z6 WH	9480.0006	352	SB 8/8 GW M WH	9484.0013	352
SB 8/8 FS 1-8 WH	9477.0001	352	SB 8/8 FW X7;Y7;Z7 WH	9480.0007	352	SB 8/8 GW MP WH	9484.0029	352
SB 8/8 FS 25-32 WH	9477.0004	352	SB 8/8 FW X8;Y8;Z8 WH	9480.0008	352	SB 8/8 GW N WH	9478.0015	352
SB 8/8 FS 33-40 WH	9477.0005	352	SB 8/8 FW X9;Y9;Z9 WH	9480.0009	352	SB 8/8 GW N WH	9484.0014	352
SB 8/8 FS 41-48 WH	9477.0006	352	SB 8/8 GS - WH	9479.0017	353	SB 8/8 GW O WH	9484.0015	352
SB 8/8 FS 49-56 WH	9477.0007	352	SB 8/8 GS - WH	9485.0035	353	SB 8/8 GW P WH	9484.0016	352
SB 8/8 FS 57-64 WH	9477.0008	352	SB 8/8 GS - WH	9485.0036	353	SB 8/8 GW PE WH	9478.0011	352
SB 8/8 FS 65-72 WH	9477.0009	352	SB 8/8 GS + WH	9479.0016	353	SB 8/8 GW PE WH	9484.0027	352
SB 8/8 FS 73-80 WH	9477.0010	352	SB 8/8 GS + WH	9485.0034	353	SB 8/8 GW PEN WH	9484.0028	352
SB 8/8 FS 81-88 WH	9477.0011	352	SB 8/8 GS 0 WH	9479.0000	353	SB 8/8 GW Q WH	9484.0017	352
SB 8/8 FS 89-96 WH	9477.0012	352	SB 8/8 GS 1 WH	9479.0001	353	SB 8/8 GW R WH	9484.0018	352
SB 8/8 FS 9-16 WH	9477.0002	352	SB 8/8 GS 2 WH	9479.0002	353	SB 8/8 GW S WH	9484.0019	352
SB 8/8 FS 97-104 WH	9477.0013	352	SB 8/8 GS 3 WH	9479.0003	353	SB 8/8 GW SL WH	9484.0030	352
SB 8/8 FS L1;L2;L3;N;Earth with circuit WH	9483.0004	352	SB 8/8 GS 4 WH	9479.0004	353	SB 8/8 GW T WH	9484.0020	352
SB 8/8 FS L1;L2;L3;N;PE WH	9483.0003	352	SB 8/8 GS 5 WH	9479.0005	353	SB 8/8 GW T1 WH	9484.0031	352
SB 8/8 FS R;S;T;N;Earth with circuit WH	9483.0002	352	SB 8/8 GS 6 WH	9479.0006	353	SB 8/8 GW T2 WH	9484.0032	352
SB 8/8 FS R1;S1;T1 WH	9482.0011	352	SB 8/8 GS 7 WH	9479.0007	353	SB 8/8 GW T3 WH	9484.0033	352
SB 8/8 FS R10;S10;T10 WH	9482.0020	352	SB 8/8 GS 8 WH	9479.0008	353	SB 8/8 GW U WH	9484.0021	352
SB 8/8 FS R2;S2;T2 WH	9482.0012	352	SB 8/8 GS 9 WH	9479.0009	353	SB 8/8 GW V WH	9484.0022	352
SB 8/8 FS R3;S3;T3 WH	9482.0013	352	SB 8/8 GS A WH	9485.0001	353	SB 8/8 GW W WH	9484.0023	352
SB 8/8 FS R4;S4;T4 WH	9482.0014	352	SB 8/8 GS B WH	9485.0002	353	SB 8/8 GW X WH	9478.0010	352
SB 8/8 FS R5;S5;T5 WH	9482.0015	352	SB 8/8 GS C WH	9485.0003	353	SB 8/8 GW X WH	9484.0024	352
SB 8/8 FS R6;S6;T6 WH	9482.0016	352	SB 8/8 GS D WH	9485.0004	353	SB 8/8 GW Y WH	9484.0025	352
SB 8/8 FS R7;S7;T7 WH	9482.0017	352	SB 8/8 GS E WH	9485.0005	353	SB 8/8 GW Z WH	9484.0026	352
SB 8/8 FS R8;S8;T8 WH	9482.0018	352	SB 8/8 GS Earth with circuit WH	9485.0038	353	SB 8/8 So WH	2941.7	352
SB 8/8 FS R9;S9;T9 WH	9482.0019	352	SB 8/8 GS Earth WH	9485.0037	353	SB 8/8 WH	2940.0	352
SB 8/8 FS U;V;W;N;PE WH	9483.0001	352	SB 8/8 GS F WH	9485.0006	353	SchT 10	3809.0	276
SB 8/8 FS U1;V1;W1 WH	9482.0021	352	SB 8/8 GS G WH	9485.0007	353	SchT 11	2530.0	277
SB 8/8 FS U10;V10;W10 WH	9482.0030	352	SB 8/8 GS H WH	9485.0008	353	SchT 12	2531.0	277
SB 8/8 FS U2;V2;W2 WH	9482.0022	352	SB 8/8 GS I WH	9485.0009	353	SchT 2	2888.0	277
SB 8/8 FS U3;V3;W3 WH	9482.0023	352	SB 8/8 GS J WH	9485.0010	353	SchT 3/AS 3	2616.0	354
SB 8/8 FS U4;V4;W4 WH	9482.0024	352	SB 8/8 GS K WH	9485.0011	353	SchT 4/8	2528.0	276
SB 8/8 FS U5;V5;W5 WH	9482.0025	352	SB 8/8 GS L WH	9485.0012	353	SchT 4/AS 3	2617.0	354
SB 8/8 FS U6;V6;W6 WH	9482.0026	352	SB 8/8 GS L1 WH	9479.0012	353	SchT 5/AS 3	2618.0	354
SB 8/8 FS U7;V7;W7 WH	9482.0027	352	SB 8/8 GS L2 WH	9479.0013	353	SchT 6/12	2529.0	276
SB 8/8 FS U8;V8;W8 WH	9482.0028	352	SB 8/8 GS L3 WH	9479.0014	353	SchT 6/AS 3	2619.0	354
SB 8/8 FS U9;V9;W9 WH	9482.0029	352	SB 8/8 GS M WH	9485.0013	353	SchT 7 short joint	2504.0	276
SB 8/8 FS X1;Y1;Z1 WH	9482.0001	352	SB 8/8 GS MP WH	9485.0029	353	SchT 7 long joint	2361.0	276
SB 8/8 FS X10;Y10;Z10 WH	9482.0010	352	SB 8/8 GS N WH	9479.0015	353	SchT 9	3749.0	276
SB 8/8 FS X2;Y2;Z2 WH	9482.0002	352	SB 8/8 GS N WH	9485.0014	353	SDB 0,4x2,0	3164.0	422
SB 8/8 FS X3;Y3;Z3 WH	9482.0003	352	SB 8/8 GS O WH	9485.0015	353	SDB 0,4x2,5	3169.0	422
SB 8/8 FS X4;Y4;Z4 WH	9482.0004	352	SB 8/8 GS P WH	9485.0016	353	SDB 0,5x3,0	1085.0	422
SB 8/8 FS X5;Y5;Z5 WH	9482.0005	352	SB 8/8 GS PE WH	9479.0011	353	SDB 0,6x3,5	1086.0	422
SB 8/8 FS X6;Y6;Z6 WH	9482.0006	352	SB 8/8 GS PE WH	9485.0027	353	SDB 0,8x4,0	1087.0	422
SB 8/8 FS X7;Y7;Z7 WH	9482.0007	352	SB 8/8 GS PEN WH	9485.0028	353	SDB 1,2x6,5	1088.0	422
SB 8/8 FS X8;Y8;Z8 WH	9482.0008	352	SB 8/8 GS Q WH	9485.0017	353	SDI 0,4x2,5	1081.0	422
SB 8/8 FS X9;Y9;Z9 WH	9476.0009	352	SB 8/8 GS R WH	9485.0018	353	SDI 0,6x3,5	1082.0	422
SB 8/8 FW 105-112 WH	9476.0014	352	SB 8/8 GS S WH	9485.0019	353	SDI 1,0x5,5	1083.0	422
SB 8/8 FW 113-120 WH	9476.0015	352	SB 8/8 GS SL WH	9485.0030	353	SDI 1,2x6,5	1084.0	422
SB 8/8 FW 17-24 WH	9476.0003	352	SB 8/8 GS T WH	9485.0020	353	SDIK 1,0x80	2278.0	422
SB 8/8 FW 1-8 WH	9476.0001	352	SB 8/8 GS T1 WH	9485.0031	353	SDIK 2,0x100	2279.0	422
SB 8/8 FW 25-32 WH	9476.0004	352	SB 8/8 GS T2 WH	9485.0032	353	SDK 1,0x80	2289.0	422
SB 8/8 FW 33-40 WH	9476.0005	352	SB 8/8 GS T3 WH	9485.0033	353	SDK 2,0x100	2290.0	422
SB 8/8 FW 41-48 WH	9476.0006	352	SB 8/8 GS U WH	9485.0021	353	Service-Set-EMS-2	1647.0	409
SB 8/8 FW 49-56 WH	9476.0007	352	SB 8/8 GS V WH	9485.0022	353	SF 2,5-4 BG	1019.2	213
SB 8/8 FW 57-64 WH	9476.0008	352	SB 8/8 GS W WH	9485.0023	353	SH 1 BG	2318.2	240
SB 8/8 FW 65-72 WH	9476.0009	352	SB 8/8 GS X WH	9479.0010	353	SH SAB BG	1530.2	241
SB 8/8 FW 73-80 WH	9476.0010	352	SB 8/8 GS X WH	9485.0024	353	SI 5x20 0,032A-F	2891.0	324
SB 8/8 FW 81-88 WH	9476.0011	352	SB 8/8 GS Y WH	9485.0025	353	SI 5x20 0,032A-T	2912.0	324
SB 8/8 FW 89-96 WH	9476.0012	352	SB 8/8 GS Z WH	9485.0026	353	SI 5x20 0,040A-F	2892.0	324
SB 8/8 FW 9-16 WH	9476.0002	352	SB 8/8 GW - WH	9478.0017	352	SI 5x20 0,040A-T	2913.0	324
SB 8/8 FW 97-104 WH	9476.0013	352	SB 8/8 GW - WH	9484.0035	353	SI 5x20 0,050A-F	2893.0	324
SB 8/8 FW L1;L2;L3;N;Earth with circuit WH	9481.0004	352	SB 8/8 GW - WH	9484.0036	353	SI 5x20 0,050A-T	2914.0	324
SB 8/8 FW L1;L2;L3;N;PE WH	9481.0003	352	SB 8/8 GW + WH	9478.0016	352	SI 5x20 0,063A-F	2894.0	324
SB 8/8 FW R;S;T;N;Earth with circuit WH	9481.0002	352	SB 8/8 GW + WH	9484.0034	353	SI 5x20 0,063A-T	2915.0	324
SB 8/8 FW R1;S1;T1 WH	9480.0011	352	SB 8/8 GW 0 WH	9478.0000	352	SI 5x20 0,080A-F	2895.0	324
SB 8/8 FW R10;S10;T10 WH	9480.0020	352	SB 8/8 GW 1 WH	9478.0001	352	SI 5x20 0,080A-T	2916.0	324
SB 8/8 FW R2;S2;T2 WH	9480.0012	352	SB 8/8 GW 2 WH	9478.0002	352	SI 5x20 0,100A-F	2896.0	324
SB 8/8 FW R3;S3;T3 WH	9480.0013	352	SB 8/8 GW 3 WH	9478.0003	352	SI 5x20 0,100A-T	2917.0	324
SB 8/8 FW R4;S4;T4 WH	9480.0014	352	SB 8/8 GW 4 WH	9478.0004	352	SI 5x20 0,125A-F	2897.0	324
SB 8/8 FW R5;S5;T5 WH	9480.0015	352	SB 8/8 GW 5 WH	9478.0005	352	SI 5x20 0,125A-T	2918.0	324
SB 8/8 FW R6;S6;T6 WH	9480.0016	352	SB 8/8 GW 6 WH	9478.0006	352	SI 5x20 0,160A-F	2898.0	324
SB 8/8 FW R7;S7;T7 WH	9480.0017	352	SB 8/8 GW 7 WH	9478.0007	352	SI 5x20 0,160A-T	2919.0	324
SB 8/8 FW R8;S8;T8 WH	9480.0018	352	SB 8/8 GW 8 WH	9478.0008	352	SI 5x20 0,200A-F	2899.0	324
SB 8/8 FW R9;S9;T9 WH	9480.0019	352	SB 8/8 GW 9 WH	9478.0009	352	SI 5x20 0,200A-T	2920.0	324
SB 8/8 FW U;V;W;N;PE WH	9481.0001	352	SB 8/8 GW A WH	9484.0001	352	SI 5x20 0,250A-F	2900.0	324
SB 8/8 FW U1;V1;W1 WH	9480.0021	352	SB 8/8 GW B WH	9484.0002	352	SI 5x20 0,250A-T	2921.0	324
SB 8/8 FW U10;V10;W10 WH	9480.0030	352	SB 8/8 GW C WH	9484.0003	352	SI 5x20 0,315A-F	2901.0	324
SB 8/8 FW U2;V2;W2 WH	9480.0022	352	SB 8/8 GW D WH	9484.0004	352	SI 5x20 0,315A-T	2922.0	324
SB 8/8 FW U3;V3;W3 WH	9480.0023	352	SB 8/8 GW E WH	9484.0005	352	SI 5x20 0,400A-F	2902.0	324
SB 8/8 FW U4;V4;W4 WH	9480.0024	352	SB 8/8 GW Earth with circuit WH	9484.0038	353	SI 5x20 0,400A-T	2923.0	324

Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
SI 5x20 0,500A-F	2903.0	324	SK 1/35 230V AC G PA-G BK	1375.4	78	SQI 6/8 YE	17227.8	284
SI 5x20 0,500A-T	2924.0	324	SK 1/35 230V AC G PA-G BK	1375.4	209	SQI 6/9 YE	17228.8	284
SI 5x20 0,630A-F	2904.0	324	SK 1/35 24V AC LED(RD) PA-G BK	1004.4	78	SQIK 2,5-10 YE	17200.8	285
SI 5x20 0,630A-T	2925.0	324	SK 1/35 24V AC LED(RD) PA-G BK	1004.4	209	SRK 10/2A BG	17112.2	23
SI 5x20 0,800A-F	2905.0	324	SK 1/35 24V AC/DC G PA-G BK	1369.4	78	SRK 10/2A BK	17112.4	23
SI 5x20 0,800A-T	2926.0	324	SK 1/35 24V AC/DC G PA-G BK	1369.4	209	SRK 10/2A BU	17112.5	23
SI 5x20 1,000A-T	2927.0	324	SK 1/35 24V DC LED(RD) PA-G BK	1380.4	78	SRK 10/2A GN	17112.1	23
SI 5x20 1,250A-F	2906.0	324	SK 1/35 24V DC LED(RD) PA-G BK	1380.4	209	SRK 10/2A GR	17112.6	23
SI 5x20 1,250A-T	2928.0	324	SK 1/35 48V AC LED(RD) PA-G BK	1119.4	78	SRK 10/2A OG	17112.3	23
SI 5x20 1,600A-F	2907.0	324	SK 1/35 48V AC LED(RD) PA-G BK	1119.4	209	SRK 10/2A RD	17112.9	23
SI 5x20 1,600A-T	2929.0	324	SK 1/35 48V DC LED(RD) PA-G BK	1067.4	78	SRK 10/2A SAS BG	17118.2	23
SI 5x20 10,000A-F	2911.0	324	SK 1/35 48V DC LED(RD) PA-G BK	1067.4	209	SRK 10/2A SAS BK	17118.4	23
SI 5x20 10,000A-T	2937.0	324	SK 1/35 w.K. PA-G BK	1368.4	79	SRK 10/2A SAS BU	17118.5	23
SI 5x20 2,000A-T	2930.0	324	SK 1/35 w.K. PA-G BK	1368.4	209	SRK 10/2A SAS GN	17118.1	23
SI 5x20 2,500A-F	2908.0	324	SK 1/35 PA-G BK	1367.4	78	SRK 10/2A SAS GR	17118.6	23
SI 5x20 2,500A-T	2931.0	324	SK 1/35 PA-G BK	1367.4	209	SRK 10/2A SAS OG	17118.3	23
SI 5x20 3,150A-F	2909.0	324	SK 12/12	2660.0	433	SRK 10/2A SAS RD	17118.9	23
SI 5x20 3,150A-T	2932.0	324	SK 27	2376.0	433	SRK 10/2A SAS WH	17118.7	23
SI 5x20 4,000A-T	2933.0	324	SK 50	2042.0	433	SRK 10/2A SAS YE	17118.8	23
SI 5x20 5,000A-T	2934.0	324	SK empty assortment box	2501.0	433	SRK 10/2A WH	17112.7	23
SI 5x20 6,300A-T	2935.0	324	SKA 5x20	2049.2	78	SRK 10/2A YE	17112.8	23
SI 5x20 8,000A-F	2910.0	324	SKA 5x25	2048.2	78	SRK 2,5 BG	1030.2	29
SI 5x20 8,000A-T	2936.0	324	SKS 1	2545.0	434	SRK 2,5 BK	1030.4	29
SI 6,3x32 0,100A-T	4950.0	325	SKS 2,5	2546.0	434	SRK 2,5 BU	1030.5	29
SI 6,3x32 0,125A-T	4951.0	325	SKS 6	2547.0	434	SRK 2,5 GN	1030.1	29
SI 6,3x32 0,160A-F	4971.0	325	SL 10/35 Ex GNYE	1439.2	248	SRK 2,5 OG	1030.3	29
SI 6,3x32 0,160A-T	4952.0	325	SL 10/35 GNYE	1213.2	33	SRK 2,5 RD	1030.9	29
SI 6,3x32 0,200A-F	4972.0	325	SL 16/35 Ex GNYE	1441.2	249	SRK 2,5 WH	1030.7	29
SI 6,3x32 0,200A-T	4953.0	325	SL 16/35 GNYE	1197.2	34	SRK 2,5 YE	1030.8	29
SI 6,3x32 0,250A-F	4973.0	325	SL 16/35/IS GNYE	1535.2	34	SRK 2,5/15 BG	1035.2	28
SI 6,3x32 0,250A-T	4954.0	325	SL 16/35/N GNYE	1533.2	35	SRK 2,5/15 BK	1035.4	28
SI 6,3x32 0,315A-F	4974.0	325	SL 16/35/N/IS GNYE	1536.2	35	SRK 2,5/15 BU	1035.5	28
SI 6,3x32 0,315A-T	4955.0	325	SL 2,5/35 Ex GNYE	1435.2	247	SRK 2,5/15 GN	1035.1	28
SI 6,3x32 0,400A-F	4975.0	325	SL 2,5/35 GNYE	1056.2	30	SRK 2,5/15 OG	1035.3	28
SI 6,3x32 0,400A-T	4956.0	325	SL 2,5/35/ZR GNYE	1060.2	429	SRK 2,5/15 RD	1035.9	28
SI 6,3x32 0,500A-F	4976.0	325	SL 2,5/35/ZRL GNYE	1062.2	43	SRK 2,5/15 WH	1035.7	28
SI 6,3x32 0,500A-T	4957.0	325	SL 35/35 Ex GNYE	1443.2	249	SRK 2,5/15 YE	1035.8	28
SI 6,3x32 0,630A-F	4977.0	325	SL 35/35 GNYE	1199.2	36	SRK 2,5/15A BG	17100.2	20
SI 6,3x32 0,630A-T	4958.0	325	SL 35/35/IS GNYE	1537.2	36	SRK 2,5/2A BK	17100.4	20
SI 6,3x32 0,800A-F	4978.0	325	SL 35/35/N GNYE	1534.2	37	SRK 2,5/2A BU	17100.5	20
SI 6,3x32 0,800A-T	4959.0	325	SL 35/35/N/IS GNYE	1538.2	37	SRK 2,5/2A GN	17100.1	20
SI 6,3x32 1,000A-F	4979.0	325	SL 4/15 Ex GNYE	1404.2	246	SRK 2,5/2A GR	17100.6	20
SI 6,3x32 1,000A-T	4960.0	325	SL 4/15 GNYE	1064.2	29	SRK 2,5/2A OG	17100.3	20
SI 6,3x32 1,250A-F	4980.0	325	SL 4/35 Ex GNYE	1437.2	247	SRK 2,5/2A RD	17100.9	20
SI 6,3x32 1,250A-T	4961.0	325	SL 4/35 GNYE	1212.2	32	SRK 2,5/2A SAS BG	17119.2	20
SI 6,3x32 1,600A-F	4981.0	325	SLN 2,5/35 GNYE	1058.2	29	SRK 2,5/2A SAS BK	17119.4	20
SI 6,3x32 1,600A-T	4962.0	325	SMSST/L 12x6.4 mm	3898.0	426	SRK 2,5/2A SAS BU	17119.5	20
SI 6,3x32 10,000A-F	4989.0	325	SMSST/Q 12x6.4 mm	3898.1	426	SRK 2,5/2A SAS GN	17119.1	20
SI 6,3x32 10,000A-T	4970.0	325	SMSST/R 5.5 mm	3898.2	426	SRK 2,5/2A SAS GR	17119.6	20
SI 6,3x32 2,000A-F	4982.0	325	SMSST/R 6.0 mm	3898.3	426	SRK 2,5/2A SAS OG	17119.3	20
SI 6,3x32 2,000A-T	4963.0	325	SN/M20	4148.2	487	SRK 2,5/2A SAS RD	17119.9	20
SI 6,3x32 2,500A-F	4983.0	325	SN/M25	4149.2	487	SRK 2,5/2A SAS WH	17119.7	20
SI 6,3x32 2,500A-T	4964.0	325	SN/M32	4150.2	487	SRK 2,5/2A SAS YE	17119.8	20
SI 6,3x32 3,150A-F	4984.0	325	SN/M40	4151.2	487	SRK 2,5/2A WH	17100.7	20
SI 6,3x32 3,150A-T	4965.0	325	SQI 10/10 YE	17239.8	285	SRK 2,5/2A YE	17100.8	20
SI 6,3x32 4,000A-F	4985.0	325	SQI 10/2 YE	17231.8	285	SRK 4/2A BG	17104.2	21
SI 6,3x32 4,000A-T	4966.0	325	SQI 10/3 YE	17232.8	285	SRK 4/2A BK	17104.4	21
SI 6,3x32 5,000A-F	4986.0	325	SQI 10/30 YE	17240.8	285	SRK 4/2A BU	17104.5	21
SI 6,3x32 5,000A-T	4967.0	325	SQI 10/4 YE	17233.8	285	SRK 4/2A GN	17104.1	21
SI 6,3x32 6,300A-F	4987.0	325	SQI 10/5 YE	17234.8	285	SRK 4/2A GR	17104.6	21
SI 6,3x32 6,300A-T	4968.0	325	SQI 10/6 YE	17235.8	285	SRK 4/2A OG	17104.3	21
SI 6,3x32 8,000A-F	4988.0	325	SQI 10/7 YE	17236.8	285	SRK 4/2A RD	17104.9	21
SI 6,3x32 8,000A-T	4969.0	325	SQI 10/8 YE	17237.8	285	SRK 4/2A SAS BG	17116.2	21
SI C 0,500 A/32V	4990.0	325	SQI 10/9 YE	17238.8	285	SRK 4/2A SAS BK	17116.4	21
SI C 1,000 A/32V	4991.0	325	SQI 2,5/10 YE	17209.8	284	SRK 4/2A SAS BU	17116.5	21
SI C 10,000 A/32V	4997.0	325	SQI 2,5/2 YE	17201.8	284	SRK 4/2A SAS GN	17116.1	21
SI C 15,000 A/32V	4998.0	325	SQI 2,5/3 YE	17202.8	284	SRK 4/2A SAS GR	17116.6	21
SI C 2,000 A/32V	4992.0	325	SQI 2,5/30 YE	17210.8	284	SRK 4/2A SAS OG	17116.3	21
SI C 20,000 A/32V	4999.0	325	SQI 2,5/4 YE	17203.8	284	SRK 4/2A SAS RD	17116.9	21
SI C 3,000 A/32V	4993.0	325	SQI 2,5/5 YE	17204.8	284	SRK 4/2A SAS WH	17116.7	21
SI C 4,000 A/32V	4994.0	325	SQI 2,5/6 YE	17205.8	284	SRK 4/2A SAS YE	17116.8	21
SI C 5,000 A/32V	4995.0	325	SQI 2,5/7 YE	17206.8	284	SRK 4/2A WH	17104.7	21
SI C 7,500 A/32V	4996.0	325	SQI 2,5/8 YE	17207.8	284	SRK 4/2A YE	17104.8	21
SIK 10 BG	1101.2	74	SQI 2,5/9 YE	17208.8	284	SRK 6/2A BG	17108.2	22
SIK 10 BU	1101.5	74	SQI 4/10 YE	17219.8	284	SRK 6/2A BK	17108.4	22
SIK 10/2 LED s(RD)/24V DC BG	1107.2	74	SQI 4/2 YE	17211.8	284	SRK 6/2A BU	17108.5	22
SIK 10/LED(RD)/115V DC/230V AC BG	1106.2	74	SQI 4/3 YE	17212.8	284	SRK 6/2A GN	17108.1	22
SIK 10/LED(RD)/12V DC/24V AC BG	1103.2	74	SQI 4/30 YE	17220.8	284	SRK 6/2A GR	17108.6	22
SIK 10/LED(RD)/20-30V DC/40-60V AC BG	1104.2	74	SQI 4/4 YE	17213.8	284	SRK 6/2A OG	17108.3	22
SIK 10/LED(RD)/40-60V DC/80-120V AC BG	1105.2	74	SQI 4/5 YE	17214.8	284	SRK 6/2A RD	17108.9	22
SIK 10/ST BG	17042.2	74	SQI 4/6 YE	17215.8	284	SRK 6/2A SAS BG	17117.2	22
SIK 10/Z BG	1102.2	75	SQI 4/7 YE	17216.8	284	SRK 6/2A SAS BK	17117.4	22
SIK 10/Z PA-G BK	17041.4	78	SQI 4/8 YE	17217.8	284	SRK 6/2A SAS BU	17117.5	22
SIK 10/Z PA-G BK	17041.4	209	SQI 4/9 YE	17218.8	284	SRK 6/2A SAS GN	17117.1	22
SIK 10/Z/2 LED s(RD)/24V DC BG	1112.2	75	SQI 6/10 YE	17229.8	284	SRK 6/2A SAS GR	17117.6	22
SIK 10/Z/LED(RD)/115V DC/230V AC BG	1111.2	75	SQI 6/2 YE	17221.8	284	SRK 6/2A SAS OG	17117.3	22
SIK 10/Z/LED(RD)/12V DC/24V AC BG	1108.2	75	SQI 6/3 YE	17222.8	284	SRK 6/2A SAS RD	17117.9	22
SIK 10/Z/LED(RD)/20-30V DC/40-60V AC BG	1109.2	75	SQI 6/30 YE	17230.8	284	SRK 6/2A SAS WH	17117.7	22
SIK 10/Z/LED(RD)/40-60V DC/80-120V AC BG	1110.2	75	SQI 6/4 YE	17223.8	284	SRK 6/2A SAS YE	17117.8	22
SIK 10/Z/ST BG	17043.2	75	SQI 6/5 YE	17224.8	284	SRK 6/2A WH	17108.7	22
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TW 1,5-4 BU	2071.5	316	VEM 12/16	17607.2	486	Wire-end ferrules box 0,5 -2,5 m-m <sup>2</sup>	2884.0	433
TW 138 BG	1178.0	316	VEM 16/20	17608.2	486	Wire-end ferrules box 4-16 mm <sup>2</sup>	2885.0	433
TW 16 BG	2105.2	316	VEM 20/25	17609.2	486	Wire-end ferrule empty box	2887.0	433
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TWMF BU	2957.5	316	VH 17	2122.0	291	ZAD 4/4/B YE	3707.0	315
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			VH 8	2283.0	297	ZAP 10/2A GN	3788.1	281
			VH 8,5	2085.0	297	ZAP 10/2A OG	3788.3	281
			VK-S	3897.0	427	ZAP 10/2A RD	3788.9	281
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			VMAB 6-10	1522.2	44	ZAP 16/2A GN	3799.1	281
			VMAK 2,5 BG	1425.2	57	ZAP 16/2A OG	3799.3	281
			VMD 12/04/020 BK	17647.4	490	ZAP 16/2A RD	3799.9	281
			VMD 16/02/040 BK	17648.4	490	ZAP 16/2A YE	3799.8	281
			VMD 20/02/060 BK	17649.4	490	ZAP 2,5/2A BG	3700.2	280
			VMD 20/02/065 BK	17650.4	490	ZAP 2,5/2A BU	3700.5	280
			VMD 20/03/040 BK	17651.4	490	ZAP 2,5/2A GN	3700.1	280
			VMD 25/01/065 BK	17652.4	490	ZAP 2,5/2A OG	3700.3	280
			VMD 25/02/060 BK	17653.4	490	ZAP 2,5/2A RD	3700.9	280
			VMD 25/02/070 BK	17654.4	490	ZAP 2,5/2A YE	3700.8	280
			VMD 25/02/080 BK	17655.4	490	ZAP 2,5/3A BG	3701.2	280
			VMD 25/03/070 BK	17656.4	490	ZAP 2,5/3A BU	3701.5	280
			VMD 25/04/060 BK	17657.4	490	ZAP 2,5/3A GN	3701.1	280
			VMD 32/04/070 BK	17658.4	490	ZAP 2,5/3A OG	3701.3	280
			VMD 32/04/080 BK	17659.4	490	ZAP 2,5/3A RD	3701.9	280
			VMD 32/06/060 BK	17660.4	490	ZAP 2,5/3A YE	3701.8	280
			VMD 40/07/070 BK	17661.4	490	ZAP 2,5/4A BG	3702.2	280
			VMD 40/07/080 BK	17662.4	490	ZAP 2,5/4A BU	3702.5	280
			VMD 40/08/060 BK	17663.4	490	ZAP 2,5/4A GN	3702.1	280
			VMD 50/09/080 BK	17664.4	490	ZAP 2,5/4A OG	3702.3	280
			VRDE 12 BK	17639.4	489	ZAP 2,5/4A RD	3702.9	280
			VRDE 16 BK	17640.4	489	ZAP 2,5/4A YE	3702.8	280
			VRDE 20 BK	17641.4	489	ZAP 2,5/ID BG	3761.2	281
			VRDE 25 BK	17642.4	489	ZAP 2,5/ID BU	3761.5	281
			VRDE 32 BK	17643.4	489	ZAP 2,5/ID GN	3761.1	281
			VRDE 40 BK	17644.4	489	ZAP 2,5/ID OG	3761.3	281
			VRDE 50 BK	17645.4	489	ZAP 2,5/ID RD	3761.9	281
			VRDE 63 BK	17646.4	489	ZAP 2,5/ID YE	3761.8	281
			VRM 16/12	17614.2	487	ZAP 4/2A BG	3703.2	280
			VRM 20/12	17615.2	487	ZAP 4/2A BU	3703.5	280
			VRM 25/12	17617.2	487	ZAP 4/2A GN	3703.1	280
			VRM 25/16	17618.2	487	ZAP 4/2A OG	3703.3	280
			VRM 32/16	17620.2	487	ZAP 4/2A RD	3703.9	280
			VRM 32/20	17621.2	487	ZAP 4/2A YE	3703.8	280
			VRM 32/25	17622.2	487	ZAP 4/3A BG	3704.2	280
			VRM 40/20	17623.2	487	ZAP 4/3A BU	3704.5	280
			VRM 40/25	17624.2	487	ZAP 4/3A GN	3704.1	280
			VRM 40/32	17625.2	487	ZAP 4/3A OG	3704.3	280
			VRM 50/25	17626.2	487	ZAP 4/3A RD	3704.9	280
			VRM 50/32	17627.2	487	ZAP 4/3A YE	3704.8	280
						ZAP 4/4A BG	3705.2	280
						ZAP 4/4A BU	3705.5	280
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ZAP SR GN	3757.1	280	ZIKD 2,5/PE/L/N BG	3594.2	161	ZRK 2,5/2A Ex BU	1704.5	256
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ZAPD 2,5 GN	3756.1	281	ZIZA 1,5/3/B BG	3529.2	175	ZRK 2,5/3A GN	3501.1	144
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ZAPD 2,5 RD	3756.9	281	ZIZA 1,5/3/LED(RD) BG	3530.2	175	ZRK 2,5/3A RD	3501.9	144
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<b>1018.5</b>	RKB 4 BU	94	<b>1084.0</b>	SDI 1,2x6,5	422	<b>1154.3</b>	TK 4/4/F OG	205
<b>1019.2</b>	SF 2,5-4 BG	213	<b>1085.0</b>	SDB 0,5x3,0	422	<b>1155.2</b>	TK 4/5/F BG	205
<b>1020.1</b>	RKD 4 GN	49	<b>1086.0</b>	SDB 0,6x3,5	422	<b>1155.3</b>	TK 4/5/F OG	205
<b>1020.2</b>	RKD 4 BG	49	<b>1087.0</b>	SDB 0,8x4,0	422	<b>1156.2</b>	TK 4/6/F BG	205
<b>1020.3</b>	RKD 4 OG	49	<b>1088.0</b>	SDB 1,2x6,5	422	<b>1156.3</b>	TK 4/6/F OG	205
<b>1020.4</b>	RKD 4 BK	49	<b>1089.0</b>	H 2,5/24-T GR	429	<b>1157.2</b>	TK 4/7/F BG	205
<b>1020.5</b>	RKD 4 BU	49	<b>1100</b>			<b>1157.3</b>	TK 4/7/F OG	205
<b>1020.7</b>	RKD 4 WH	49	<b>1100.0</b>	PZU 6	424	<b>1158.2</b>	TK 4/8/F BG	205
<b>1020.8</b>	RKD 4 YE	49	<b>1101.2</b>	SIK 10 BG	74	<b>1158.3</b>	TK 4/8/F OG	205
<b>1020.9</b>	RKD 4 RD	49	<b>1101.5</b>	SIK 10 BU	74	<b>1159.2</b>	TK 4/9/F BG	205
<b>1023.2</b>	RKD 4/UV/30V BG	55	<b>1102.2</b>	SIK 10/Z BG	75	<b>1159.3</b>	TK 4/9/F OG	205
<b>1024.2</b>	RKD 4/UV/60V BG	55	<b>1103.2</b>	SIK 10/LED(RD)/12V DC/24V AC BG	74	<b>1160.2</b>	TK 4/10/F BG	205
<b>1025.2</b>	RKD 4/800V BG	50	<b>1104.2</b>	SIK 10/LED(RD)/20-30V DC/40-60V AC BG	74	<b>1160.3</b>	TK 4/10/F OG	205
<b>1026.2</b>	RKD 4 SV/800V BG	50	<b>1105.2</b>	SIK 10/LED(RD)/40-60V DC/80-120V AC BG	74	<b>1161.2</b>	TK 10/ZP BG	205
<b>1027.2</b>	RKD 4/SV BG	49	<b>1106.2</b>	SIK 10/LED(RD)/115V DC/230V AC BG	74	<b>1161.3</b>	TK 10/ZP OG	205
<b>1027.3</b>	RKD 4/SV OG	49	<b>1107.2</b>	SIK 10/2 LED s(RD)/24V DC BG	74	<b>1162.1</b>	RK 16/Z GN	34
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<b>1029.2</b>	RKD 4/UV/75V BG	55	<b>1109.2</b>	SIK 10/Z/LED(RD)/20-30V DC/40-60V AC BG	75	<b>1162.3</b>	RK 16/Z OG	34
<b>1030.1</b>	SRK 2,5 GN	29	<b>1110.2</b>	SIK 10/Z/LED(RD)/40-60V DC/80-120V AC BG	75	<b>1162.4</b>	RK 16/Z BK	34
<b>1030.2</b>	SRK 2,5 BG	29	<b>1111.2</b>	SIK 10/Z/LED(RD)/115V DC/230V AC BG	75	<b>1162.5</b>	RK 16/Z BU	34
<b>1030.3</b>	SRK 2,5 OG	29	<b>1112.2</b>	SIK 10/Z/2 LED s(RD)/24V DC BG	75	<b>1162.6</b>	RK 16/Z GR	34
<b>1030.4</b>	SRK 2,5 BK	29	<b>1113.2</b>	SST/SIK/LED(RD)/12V DC/24V AC	74	<b>1162.7</b>	RK 16/Z WH	34
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<b>1030.8</b>	SRK 2,5 YE	29	<b>1116.2</b>	SST/SIK/LED(RD)/115V DC/230V AC	74	<b>1167.2</b>	RK 2,5-4/35/SAS BG	31
<b>1030.9</b>	SRK 2,5 RD	29	<b>1117.2</b>	SST/SIK/2 LED s(RD)/24V DC	74	<b>1167.3</b>	RK 2,5-4/35/SAS OG	31
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<b>1035.2</b>	SRK 2,5/15 BG	28	<b>1120.6</b>	RK 50 GR	40	<b>1173.2</b>	HSK 240 B/B BG	197
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1493.9	RK 16/Z/IS RD	34	1566.2	RK 35/35 N/PE GNYE	215	1637.0	Graver cutter for aluminium, 0.6 mm	409
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1494.2	RK 35/IS BG	36	1568.2	TK 95/PE GNYE	216	1639.0	TTP cleaning set	411
1494.3	RK 35/IS OG	36	1569.2	RK 150/PE GNYE	216	1640.0	TTP printer	411
1494.4	RK 35/IS BK	36	1570.2	RK 240/PE GNYE	217	1641.0	TTP film	411
1494.5	RK 35/IS BU	36	1571.0	SAB 8/F	236	1644.0	TTP-Start Kit	411
1494.6	RK 35/IS GR	36	1572.0	SAB 13,5/F	236	1647.0	Service-Set-EMS-2	409
1494.7	RK 35/IS WH	36	1573.0	SAB 20/F	236	1648.0	Dust protection hood EMS-2 DIN A 3	409
1494.8	RK 35/IS YE	36	1574.1	RK 2,5/35/N/2Q GN	30	1649.0	PPE 0,18mm	412
1494.9	RK 35/IS RD	36	1574.2	RK 2,5/35/N/2Q BG	30	1650.0	PPE 0,25 mm	412
1496.2	RKDG 4 Ex BG	251	1574.3	RK 2,5/35/N/2Q OG	30	1651.0	PPE 0,35 mm	412
1496.5	RKDG 4 Ex BU	251	1574.4	RK 2,5/35/N/2Q BK	30	1652.0	PPE 0,50 mm	413
1497.2	BKA 10/1 BG	95	1574.5	RK 2,5/35/N/2Q BU	30	1653.0	PPE 0,70 mm	413
1497.5	BKA 10/1 BU	95	1574.6	RK 2,5/35/N/2Q GR	30	1654.0	PPE 1.00 mm	413
1500			1574.7	RK 2,5/35/N/2Q WH	30	1658.0	Visual calibration tool	409
1500.2	BKA 10/2 BG	95	1574.8	RK 2,5/35/N/2Q YE	30	1659.0	Vacuum cleaner bag set for EMS-2 engraving unit	409
1501.2	BKA 10/3 BG	95	1574.9	RK 2,5/35/N/2Q RD	30	1660.0	GMP 17/9 R WH/BK	406
1502.2	BKA 10/4 BG	95	1577.1	RK 2,5-4/35 GN	31	1661.0	GMP 17/9 R SI/BK	406
1503.2	BKA 10/5 BG	95	1577.2	RK 2,5-4/35 BG	31	1662.0	GMP 18/9 R WH/BK	406
1504.2	BKA 10/6 BG	95	1577.3	RK 2,5-4/35 OG	31	1663.0	GMP 18/9 R SI/BK	406
1505.2	BKA 10/7 BG	95	1577.4	RK 2,5-4/35 BK	31	1664.0	GMP 22/22 R WH/BK	406
1506.2	BKA 10/8 BG	95	1577.5	RK 2,5-4/35 BU	31	1665.0	GMP 22/22 R SI/BK	406
1507.2	BKA 10/9 BG	95	1577.6	RK 2,5-4/35 GR	31	1666.0	GMP 25/60 R WH/BK	406
1508.2	BKA 10/10 BG	95	1577.7	RK 2,5-4/35 WH	31	1667.0	GMP 19/45 R SI/BK	406
1509.2	BKA 10/11 BG	95	1577.8	RK 2,5-4/35 YE	31	1668.0	GMP 27/12,5 R WH/BK	406
1510.2	BKA 10/12 BG	95	1577.9	RK 2,5-4/35 RD	31	1669.0	GMP 27/12,5 R SI/BK	406
1511.2	RK 16/35/N BG	35	1578.0	RK 6-10/35 RB	32	1670.0	GMP 27/18 R WH/BK	406
1511.4	RK 16/35/N BK	35	1578.2	RK 6-10/35 BG	32	1671.0	GMP 27/18 R SI/BK	406
1511.5	RK 16/35/N BU	35	1578.3	RK 6-10/35 OG	32	1672.0	GMP 27/27 R WH/BK	406
1511.6	RK 16/35/N GR	35	1578.4	RK 6-10/35 BK	32	1673.0	GMP 27/27 R SI/BK	406
1511.7	RK 16/35/N WH	35	1578.5	RK 6-10/35 BU	32	1674.0	GMP 30/15 SI/BK	406
1511.8	RK 16/35/N YE	35	1578.6	RK 6-10/35 GR	32	1675.0	GMP 70/35 R SI/BK	406
1511.9	RK 16/35/N RD	35	1578.7	RK 6-10/35 WH	32	1676.0	GMP 200/300 WH/BK	406
1512.2	RK 35/35/N BG	37	1578.8	RK 6-10/35 YE	32	1677.0	GMP 200/300 SI/BK	406
1512.4	RK 35/35/N BK	37	1578.9	RK 6-10/35 RD	32	1679.0	GMP 45/14 R SI/BK	406
1512.5	RK 35/35/N BU	37	1579.2	RKD 2,5/35/SV BG	49	1680.0	GMA 30/15 R 2x2,2 SI/anodized SI	407
1512.6	RK 35/35/N GR	37	1579.5	RKD 2,5/35/SV BU	49	1681.0	GMA 55/20 R 2x2,5 SI/anodized SI	407
1512.7	RK 35/35/N WH	37	1579.8	RKD 2,5/35/SV YE	49	1682.0	GMA 40/15 R 2x2,5 SI/anodized SI	407
1512.9	RK 35/35/N RD	37	1580.2	RK 2,5/35 N/2Q Ex BG	247	1684.0	Graver cutter for aluminium, 1.4 mm	409
1513.2	RK 16/35/N/Z BG	35	1580.5	RK 2,5/35 N/2Q Ex BU	247	1685.0	Survul cutting oil, 500ml	409
1513.4	RK 16/35/N/Z BK	35	1581.2	RKD 4/35/SV BG	49	1686.0	Acidic aluminium oxide, 100 ml	409
1513.5	RK 16/35/N/Z BU	35	1581.4	RKD 4/35/SV BK	49	1687.0	Dust protection hood EMS-2 DIN A 4	409
1513.6	RK 16/35/N/Z GR	35	1581.5	RKD 4/35/SV BU	49	1688.0	Graver cutter for aluminium, 2.0 mm	409
1513.7	RK 16/35/N/Z WH	35	1582.2	RK 50-D BG	99	1689.0	Graver cutter for aluminium, 2.4 mm	409
1513.8	RK 16/35/N/Z YE	35	1582.5	RK 50-D BU	99	1690.0	GMP 27/18 R RD/WH	406
1513.9	RK 16/35/N/Z RD	35	1583.2	RK 95-D BG	99	1691.0	GMP 50/20 R RD/WH	406
1514.2	RK 35/35/N/Z BG	37	1583.5	RK 95-D BU	99	1692.0	GMP 70/35 R RD/WH	406
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1514.5	RK 35/35/N/Z BU	37	1584.5	RK 150-D BU	99	1700		
1514.6	RK 35/35/N/Z GR	37	1585.2	RK 240-D BG	99	1700.2	ZSRK 2,5/2A/15 Ex BG	254
1514.7	RK 35/35/N/Z WH	37	1585.5	RK 240-D BU	99	1700.5	ZSRK 2,5/2A/15 Ex BU	254
1514.9	RK 35/35/N/Z RD	37	1586.0	PP 0.18 mm	412	1701.2	ZSRK 2,5/3A/15 Ex BG	254
1515.2	RK 35/35/N/IS BG	37	1587.0	PP 0.25 mm	412	1701.5	ZSRK 2,5/3A/15 Ex BU	254
1515.5	RK 35/35/N/IS BU	37	1588.0	PP 0.35 mm	412	1702.2	ZSRK 2,5/2A Ex BG	255
1520.2	VMAB 2,5	44	1589.0	PP 0.50 mm	413	1702.5	ZSRK 2,5/2A Ex BU	255
1521.2	VMAB 2,5-4	44	1590.0	PP 0.70 mm	413	1703.2	ZSRK 2,5/3A Ex BG	255
1522.2	VMAB 6-10	44	1591.0	PP 1.00 mm	413	1703.5	ZSRK 2,5/3A Ex BU	255
1523.2	FNAB 2,5	45	1593.0	CCI-3	410	1704.2	ZRK 2,5/2A Ex BG	256
1524.2	FNAB 2,5-4	45	1595.0	TP (5 x 1ml)	409	1704.5	ZRK 2,5/2A Ex BU	256
1525.2	FNAB 6-10	45	1597.0	CC-1	409	1705.2	ZRK 2,5/3A Ex BG	256
1526.0	SAB 8/D/MS	235	1598.0	PC-1	409	1705.5	ZRK 2,5/3A Ex BU	256
1527.0	SAB 8	234	1600			1706.2	ZRK 2,5/4A Ex BG	257
1528.0	SAB 13,5	234	1600.0	CCI-4	410	1706.5	ZRK 2,5/4A Ex BU	257
1529.0	SAB 20	234	1601.0	CCI-5	410	1707.2	ZRKD 2,5 Ex BG	262
1530.2	SH SAB BG	241	1602.0	CCI-6	410	1707.5	ZRKD 2,5 Ex BU	262
1531.2	RK 16/35/N/IS BG	35	1603.0	CCI-7	410	1708.2	ZIKD 2,5 Ex BG	262
1531.4	RK 16/35/N/IS BK	35	1604.0	CCI-8	410	1708.5	ZIKD 2,5 Ex BU	262
1531.5	RK 16/35/N/IS BU	35	1606.0	CCI-10	410	1709.2	ZSLN 2,5/2A/15 Ex GNYE	254
1531.6	RK 16/35/N/IS GR	35	1607.0	CCI-11	410	1710.2	ZSLN 2,5/3A/15 Ex GNYE	255
1531.7	RK 16/35/N/IS WH	35	1610.0	EMS-2 Easy-Marking-System DIN A3	408	1711.2	ZSLN 2,5/2A Ex GNYE	255
1531.8	RK 16/35/N/IS YE	35	1611.0	EMS-eco Easy-Marking-System DIN A4	409	1712.2	ZSLN 2,5/3A Ex GNYE	255
1531.9	RK 16/35/N/IS RD	35	1612.0	EMS-2 Starter Kit DIN A3	408	1713.2	ZSL 2,5/2A Ex GNYE	256
1532.2	RK 16/35/N/Z/IS BG	35	1613.0	EMS-eco Starter Kit DIN A4	409	1714.2	ZSL 2,5/3A Ex GNYE	257
1532.4	RK 16/35/N/Z/IS BK	35	1614.0	TPP (5 x 1ml)	409	1715.2	ZSL 2,5/4A Ex GNYE	257
1532.5	RK 16/35/N/Z/IS BU	35	1615.0	PPP 0.18 mm	412	1716.2	ZRK 4/2A Ex BG	258
1532.6	RK 16/35/N/Z/IS GR	35	1616.0	PPP 0.25 mm	412	1716.5	ZRK 4/2A Ex BU	258
1532.7	RK 16/35/N/Z/IS WH	35	1617.0	PPP 0.35 mm	412	1717.2	ZRK 4/3A Ex BG	258
1532.8	RK 16/35/N/Z/IS YE	35	1618.0	PPP 0.50 mm	413	1717.5	ZRK 4/3A Ex BU	258
1532.9	RK 16/35/N/Z/IS RD	35	1619.0	PPP 0.70 mm	413	1718.2	ZRK 4/4A Ex BG	259
1533.2	SL 16/35/N GNYE	35	1620.0	PPP 1.00 mm	413	1718.5	ZRK 4/4A Ex BU	259
1534.2	SL 35/35/N GNYE	37	1621.0	EMS-2 Engraving Unit	409	1719.2	ZRK 6/2A Ex BG	260
1535.2	SL 16/35/IS GNYE	34	1623.0	Graver set for plastic, 0.2 mm	409	1719.5	ZRK 6/2A Ex BU	260
1536.2	SL 16/35/N/IS GNYE	35	1624.0	Graver set for plastic, 0.3 mm	409	1720.2	ZRK 10/2A Ex BG	260
1537.2	SL 35/35/IS GNYE	36	1625.0	Graver set for plastic, 0.4 mm	409	1720.5	ZRK 10/2A Ex BU	260
1538.2	SL 35/35/N/IS GNYE	37	1626.0	Graver set for plastic, 0.5 mm	409	1721.2	ZRK 16/2A Ex BG	261
1549.0	SAB 8/D	235	1627.0	Graver set for plastic, 0.7 mm	409	1721.5	ZRK 16/2A Ex BU	261
1550.0	SAB 13,5/D	235	1628.0	Graver set for plastic, 1.00 mm	409	1722.2	ZSL 4/2A Ex GNYE	258
1551.0	SAB 20/D	235	1629.0	Graver set for plastic	409	1723.2	ZSL 4/3A Ex GNYE	259
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1563.2	RK 2,5-4/PE GNYE	214	1631.0	EMS-2 marking system DIN A4	408	1725.2	ZSL 6/2A Ex GNYE	260
1564.2	RK 6-10/PE GNYE	214	1635.0	Graver cutter for aluminium, 0.2 mm	409	1726.2	ZSL 10/2A Ex GNYE	261

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1728.2	ZSLD 2,5 Ex GNYE	262	1839.0	EKB 4/10 DS transparent	225	2007.0	PS 2,3	317
1740.0	SVB 80 LG	220	1840.0	EKB 4/11 DS transparent	225	2008.0	QL 2	291
1741.0	SVB 125 LG	220	1841.0	EKB 4/12 DS transparent	225	2009.0	VH 19	291
1742.0	SVB 175 LG	220	1842.0	EKB 10/1 DS transparent	225	2010.0	BS M 3x25	291
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1749.4	RK 6-10 PA-G BK	208	1849.0	EKB 10/8 DS transparent	225	2017.0	VH 13,5	297
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1753.0	EKB 10/4 transparent	225	1853.0	EKB 10/12 DS transparent	225	2021.0	Q 4	289
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1756.0	EKB 10/7 transparent	225	1856.0	EKBF 2,5/3 DS transparent	226	2024.0	AQI 3/5/15 YE	292
1757.0	EKB 10/8 transparent	225	1857.0	EKBF 2,5/4 DS transparent	226	2025.0	TS 32	268
1758.0	EKB 10/9 transparent	225	1858.0	EKBF 2,5/5 DS transparent	226	2026.0	TS 35x7,5	269
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1769.0	EKBF 2,5/8 transparent	226	1869.0	EKBF 4/4 DS transparent	226	2036.0003	SB 6/10 FW 21-30 WH	350
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1773.0	EKBF 2,5/12 transparent	226	1873.0	EKBF 4/8 DS transparent	226	2036.0007	SB 6/10 FW 61-70 WH	350
1774.0	EKBF 4/1 transparent	227	1874.0	EKBF 4/9 DS transparent	226	2036.0008	SB 6/10 FW 71-80 WH	350
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1784.0	EKBF 4/11 transparent	227	1969.0	EKB 1,5/6 transparent	224	2037.0007	SB 6/10 FS 61-70 WH	350
1785.0	EKBF 4/12 transparent	227	1970.0	EKB 1,5/7 transparent	224	2037.0008	SB 6/10 FS 71-80 WH	350
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1787.0	GMP 40/15 WH/BK	406	1972.0	EKB 1,5/9 transparent	224	2037.0010	SB 6/10 FS 91-100 WH	350
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1800.7	KKB 2,5/2 WH	228	1977.0	EKB 2,5/2 transparent	225	2040.0003	SB 6/10 FW L1;L2;L3;N;PE WH	350
1801.7	KKB 2,5/3 WH	228	1978.0	EKB 2,5/3 transparent	225	2040.0004	SB 6/10 FW L1;L2;L3;N;Earth with circuit WH	350
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1809.0	EKB 1,5/4 DS transparent	224	1986.0	EKB 2,5/11 transparent	225	2046.5	AP SI-1 BU	278
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1816.0	EKB 1,5/11 DS transparent	224	1993.0	EKB 4/6 transparent	225	2053.0	QL 2	291
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1825.0	EKB 2,5/8 DS transparent	224	2001.1	AP 2,5-10 GN	278	2062.0	Q 4	289
1826.0	EKB 2,5/9 DS transparent	224	2001.2	AP 2,5-10 BG	278	2063.0	Q 10	289
1827.0	EKB 2,5/10 DS transparent	224	2001.3	AP 2,5-10 OG	278	2064.0	AQI 2/6/17 YE	293
1828.0	EKB 2,5/11 DS transparent	224	2001.5	AP 2,5-10 BU	278	2065.0	AQI 3/6/17 YE	293
1829.0	EKB 2,5/12 DS transparent	224	2001.8	AP 2,5-10 YE	278	2066.0	AQI 4/6/17 YE	293
1830.0	EKB 4/1 DS transparent	225	2001.9	AP 2,5-10 RD	278	2067.0	AQI 2/8/11 YE	293
1831.0	EKB 4/2 DS transparent	225	2002.1	TW 2,5-10 GN	316	2068.0	AQI 3/8/11 YE	293
1832.0	EKB 4/3 DS transparent	225	2002.2	TW 2,5-10 BG	316	2069.0	AQI 4/8/11 YE	293
1833.0	EKB 4/4 DS transparent	225	2002.3	TW 2,5-10 OG	316	2070.1	AP SR GN	278
1834.0	EKB 4/5 DS transparent	225	2002.5	TW 2,5-10 BU	316	2070.2	AP SR BG	278
1835.0	EKB 4/6 DS transparent	225	2003.2	TRS 1 BG	316	2070.2	AP SR BG	278
1836.0	EKB 4/7 DS transparent	225	2004.2	ES 32 BG	274	2070.3	AP SR OG	278
1837.0	EKB 4/8 DS transparent	225	2005.2	ES 35 BG	274	2070.5	AP SR BU	278

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2070.8	AP SR YE	278	2102.0059	SB 6/10 GW 59 WH	350	2103.0051	SB 6/10 GS 51 WH	351
2070.9	AP SR RD	278	2102.0060	SB 6/10 GW 60 WH	350	2103.0052	SB 6/10 GS 52 WH	351
2071.2	TW 1,5-4 BG	316	2102.0061	SB 6/10 GW 61 WH	350	2103.0053	SB 6/10 GS 53 WH	351
2071.5	TW 1,5-4 BU	316	2102.0062	SB 6/10 GW 62 WH	350	2103.0054	SB 6/10 GS 54 WH	351
2073.0	H 4,0/26-T OG	429	2102.0063	SB 6/10 GW 63 WH	351	2103.0055	SB 6/10 GS 55 WH	351
2074.2	ES 15 BG	275	2102.0064	SB 6/10 GW 64 WH	351	2103.0056	SB 6/10 GS 56 WH	351
2075.0	STB 8,5/2,3	317	2102.0065	SB 6/10 GW 65 WH	351	2103.0057	SB 6/10 GS 57 WH	351
2076.0	QL 2	291	2102.0066	SB 6/10 GW 66 WH	351	2103.0058	SB 6/10 GS 58 WH	351
2077.0	VH 16	291	2102.0067	SB 6/10 GW 67 WH	351	2103.0059	SB 6/10 GS 59 WH	351
2078.0	BS M 2,5x20	291	2102.0068	SB 6/10 GW 68 WH	351	2103.0060	SB 6/10 GS 60 WH	351
2079.0	AD 4/24/B YE	311	2102.0069	SB 6/10 GW 69 WH	351	2103.0061	SB 6/10 GS 61 WH	351
2080.0	BSK M 2,5x22	296	2102.0070	SB 6/10 GW 70 WH	351	2103.0062	SB 6/10 GS 62 WH	351
2081.0	QS 2	296	2102.0071	SB 6/10 GW 71 WH	351	2103.0063	SB 6/10 GS 63 WH	351
2082.0	QS 3	296	2102.0072	SB 6/10 GW 72 WH	351	2103.0064	SB 6/10 GS 64 WH	351
2083.0	QS 4	296	2102.0073	SB 6/10 GW 73 WH	351	2103.0065	SB 6/10 GS 65 WH	351
2084.0	QS 10	296	2102.0074	SB 6/10 GW 74 WH	351	2103.0066	SB 6/10 GS 66 WH	351
2085.0	VH 8,5	297	2102.0075	SB 6/10 GW 75 WH	351	2103.0067	SB 6/10 GS 67 WH	351
2086.0	BS M 2,5x14	297	2102.0076	SB 6/10 GW 76 WH	351	2103.0068	SB 6/10 GS 68 WH	351
2087.0	Q 2	289	2102.0077	SB 6/10 GW 77 WH	351	2103.0069	SB 6/10 GS 69 WH	351
2088.0	Q 3	289	2102.0078	SB 6/10 GW 78 WH	351	2103.0070	SB 6/10 GS 70 WH	351
2089.0	Q 4	288	2102.0079	SB 6/10 GW 79 WH	351	2103.0071	SB 6/10 GS 71 WH	351
2090.0	Q 10	289	2102.0080	SB 6/10 GW 80 WH	351	2103.0072	SB 6/10 GS 72 WH	351
2091.0	TS 15 unslotted	272	2102.0081	SB 6/10 GW 81 WH	351	2103.0073	SB 6/10 GS 73 WH	351
2092.0	TS 15 slotted	272	2102.0082	SB 6/10 GW 82 WH	351	2103.0074	SB 6/10 GS 74 WH	351
2093.0	TS 32	268	2102.0083	SB 6/10 GW 83 WH	351	2103.0075	SB 6/10 GS 75 WH	351
2094.0	TS 35x7,5	269	2102.0084	SB 6/10 GW 84 WH	351	2103.0076	SB 6/10 GS 76 WH	351
2095.0	TS 35x15	269	2102.0085	SB 6/10 GW 85 WH	351	2103.0077	SB 6/10 GS 77 WH	351
2100			2102.0086	SB 6/10 GW 86 WH	351	2103.0078	SB 6/10 GS 78 WH	351
2101.1	AP 4 GN	278	2102.0087	SB 6/10 GW 87 WH	351	2103.0079	SB 6/10 GS 79 WH	351
2101.2	AP 4 BG	278	2102.0088	SB 6/10 GW 88 WH	351	2103.0080	SB 6/10 GS 80 WH	351
2101.3	AP 4 OG	278	2102.0089	SB 6/10 GW 89 WH	351	2103.0081	SB 6/10 GS 81 WH	351
2101.5	AP 4 BU	278	2102.0090	SB 6/10 GW 90 WH	351	2103.0082	SB 6/10 GS 82 WH	351
2101.8	AP 4 YE	278	2102.0091	SB 6/10 GW 91 WH	351	2103.0083	SB 6/10 GS 83 WH	351
2101.9	AP 4 RD	278	2102.0092	SB 6/10 GW 92 WH	351	2103.0084	SB 6/10 GS 84 WH	351
2102.0001	SB 6/10 GW 1 WH	350	2102.0093	SB 6/10 GW 93 WH	351	2103.0085	SB 6/10 GS 85 WH	351
2102.0002	SB 6/10 GW 2 WH	350	2102.0094	SB 6/10 GW 94 WH	351	2103.0086	SB 6/10 GS 86 WH	351
2102.0003	SB 6/10 GW 3 WH	350	2102.0095	SB 6/10 GW 95 WH	351	2103.0087	SB 6/10 GS 87 WH	351
2102.0004	SB 6/10 GW 4 WH	350	2102.0096	SB 6/10 GW 96 WH	351	2103.0088	SB 6/10 GS 88 WH	351
2102.0005	SB 6/10 GW 5 WH	350	2102.0097	SB 6/10 GW 97 WH	351	2103.0089	SB 6/10 GS 89 WH	351
2102.0006	SB 6/10 GW 6 WH	350	2102.0098	SB 6/10 GW 98 WH	351	2103.0090	SB 6/10 GS 90 WH	351
2102.0007	SB 6/10 GW 7 WH	350	2102.0099	SB 6/10 GW 99 WH	351	2103.0091	SB 6/10 GS 91 WH	351
2102.0008	SB 6/10 GW 8 WH	350	2102.0100	SB 6/10 GW 100 WH	351	2103.0092	SB 6/10 GS 92 WH	351
2102.0009	SB 6/10 GW 9 WH	350	2103.0001	SB 6/10 GS 1 WH	351	2103.0093	SB 6/10 GS 93 WH	351
2102.0010	SB 6/10 GW 10 WH	350	2103.0002	SB 6/10 GS 2 WH	351	2103.0094	SB 6/10 GS 94 WH	351
2102.0011	SB 6/10 GW 11 WH	350	2103.0003	SB 6/10 GS 3 WH	351	2103.0095	SB 6/10 GS 95 WH	351
2102.0012	SB 6/10 GW 12 WH	350	2103.0004	SB 6/10 GS 4 WH	351	2103.0096	SB 6/10 GS 96 WH	351
2102.0013	SB 6/10 GW 13 WH	350	2103.0005	SB 6/10 GS 5 WH	351	2103.0097	SB 6/10 GS 97 WH	351
2102.0014	SB 6/10 GW 14 WH	350	2103.0006	SB 6/10 GS 6 WH	351	2103.0098	SB 6/10 GS 98 WH	351
2102.0015	SB 6/10 GW 15 WH	350	2103.0007	SB 6/10 GS 7 WH	351	2103.0099	SB 6/10 GS 99 WH	351
2102.0016	SB 6/10 GW 16 WH	350	2103.0008	SB 6/10 GS 8 WH	351	2103.0100	SB 6/10 GS 100 WH	351
2102.0017	SB 6/10 GW 17 WH	350	2103.0009	SB 6/10 GS 9 WH	351	2104.2	AP 16 BG	278
2102.0018	SB 6/10 GW 18 WH	350	2103.0010	SB 6/10 GS 10 WH	351	2104.3	AP 16 OG	278
2102.0019	SB 6/10 GW 19 WH	350	2103.0011	SB 6/10 GS 11 WH	351	2104.5	AP 16 BU	278
2102.0020	SB 6/10 GW 20 WH	350	2103.0012	SB 6/10 GS 12 WH	351	2105.2	TW 16 BG	316
2102.0021	SB 6/10 GW 21 WH	350	2103.0013	SB 6/10 GS 13 WH	351	2105.5	TW 16 BU	316
2102.0022	SB 6/10 GW 22 WH	350	2103.0014	SB 6/10 GS 14 WH	351	2106.0	QL 2	291
2102.0023	SB 6/10 GW 23 WH	350	2103.0015	SB 6/10 GS 15 WH	351	2107.0	AQI 95/5/11 YE	292
2102.0024	SB 6/10 GW 24 WH	350	2103.0016	SB 6/10 GS 16 WH	351	2108.0	QS 2	296
2102.0025	SB 6/10 GW 25 WH	350	2103.0017	SB 6/10 GS 17 WH	351	2109.0	QS 3	296
2102.0026	SB 6/10 GW 26 WH	350	2103.0018	SB 6/10 GS 18 WH	351	2110.0	QS 4	296
2102.0027	SB 6/10 GW 27 WH	350	2103.0019	SB 6/10 GS 19 WH	351	2111.0	QS 10	296
2102.0028	SB 6/10 GW 28 WH	350	2103.0020	SB 6/10 GS 20 WH	351	2112.0	Q 2	290
2102.0029	SB 6/10 GW 29 WH	350	2103.0021	SB 6/10 GS 21 WH	351	2113.0	Q 3	290
2102.0030	SB 6/10 GW 30 WH	350	2103.0022	SB 6/10 GS 22 WH	351	2114.0	Q 4	290
2102.0031	SB 6/10 GW 31 WH	350	2103.0023	SB 6/10 GS 23 WH	351	2115.0	Q 10	290
2102.0032	SB 6/10 GW 32 WH	350	2103.0024	SB 6/10 GS 24 WH	351	2116.2	AP 35 BG	278
2102.0033	SB 6/10 GW 33 WH	350	2103.0025	SB 6/10 GS 25 WH	351	2116.3	AP 35 OG	278
2102.0034	SB 6/10 GW 34 WH	350	2103.0026	SB 6/10 GS 26 WH	351	2116.5	AP 35 BU	278
2102.0035	SB 6/10 GW 35 WH	350	2103.0027	SB 6/10 GS 27 WH	351	2117.2	TW 35 BG	316
2102.0036	SB 6/10 GW 36 WH	350	2103.0028	SB 6/10 GS 28 WH	351	2117.5	TW 35 BU	316
2102.0037	SB 6/10 GW 37 WH	350	2103.0029	SB 6/10 GS 29 WH	351	2118.0	QS 2	296
2102.0038	SB 6/10 GW 38 WH	350	2103.0030	SB 6/10 GS 30 WH	351	2119.0	QS 3	296
2102.0039	SB 6/10 GW 39 WH	350	2103.0031	SB 6/10 GS 31 WH	351	2120.0	QS 4	296
2102.0040	SB 6/10 GW 40 WH	350	2103.0032	SB 6/10 GS 32 WH	351	2121.0	QS 10	296
2102.0041	SB 6/10 GW 41 WH	350	2103.0033	SB 6/10 GS 33 WH	351	2122.0	VH 17	291
2102.0042	SB 6/10 GW 42 WH	350	2103.0034	SB 6/10 GS 34 WH	351	2123.0	BS M 4x30	291
2102.0043	SB 6/10 GW 43 WH	350	2103.0035	SB 6/10 GS 35 WH	351	2124.0	SS M 4	297
2102.0044	SB 6/10 GW 44 WH	350	2103.0036	SB 6/10 GS 36 WH	351	2125.0	AQI 2/6/11 YE	292
2102.0045	SB 6/10 GW 45 WH	350	2103.0037	SB 6/10 GS 37 WH	351	2126.0	AQI 3/6/11 YE	292
2102.0046	SB 6/10 GW 46 WH	350	2103.0038	SB 6/10 GS 38 WH	351	2127.0	STB 16/4	317
2102.0047	SB 6/10 GW 47 WH	350	2103.0039	SB 6/10 GS 39 WH	351	2128.0	Ssch 10x3 MS	83
2102.0048	SB 6/10 GW 48 WH	350	2103.0040	SB 6/10 GS 40 WH	351	2129.0	Ssch 10x3 CU	83
2102.0049	SB 6/10 GW 49 WH	350	2103.0041	SB 6/10 GS 41 WH	351	2130.0	H 6,0/20-T GN	429
2102.0050	SB 6/10 GW 50 WH	350	2103.0042	SB 6/10 GS 42 WH	351	2131.0	Ssch 6x6 CU	89
2102.0051	SB 6/10 GW 51 WH	350	2103.0043	SB 6/10 GS 43 WH	351	2132.0	Ssch 6x6 MS	89
2102.0052	SB 6/10 GW 52 WH	350	2103.0044	SB 6/10 GS 44 WH	351	2133.0	H 6,0/26-T GN	429
2102.0053	SB 6/10 GW 53 WH	350	2103.0045	SB 6/10 GS 45 WH	351	2134.0	H 10,0/22-T BN	429
2102.0054	SB 6/10 GW 54 WH	350	2103.0046	SB 6/10 GS 46 WH	351	2135.2	EH 1 BG	274
2102.0055	SB 6/10 GW 55 WH	350	2103.0047	SB 6/10 GS 47 WH	351	2136.2	EH 2 BG	274
2102.0056	SB 6/10 GW 56 WH	350	2103.0048	SB 6/10 GS 48 WH	351	2138.0	ZB 4	90
2102.0057	SB 6/10 GW 57 WH	350	2103.0049	SB 6/10 GS 49 WH	351	2138.0	ZB 4	238
2102.0058	SB 6/10 GW 58 WH	350	2103.0050	SB 6/10 GS 50 WH	351	2139.0	ZB 16	90

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2140.0	AQI 4/6/11 YE	292	2156.0307	KBH 3/3 Print "h"	374	2160.0216	KBH 5/3 Print "Q"	375
2141.0	AQI 10/6/11 YE	292	2156.0308	KBH 3/3 Print "i"	374	2160.0217	KBH 5/3 Print "R"	375
2142.0100	KBH 3/3 blank BK	374	2156.0309	KBH 3/3 Print "j"	374	2160.0218	KBH 5/3 Print "S"	375
2142.0101	KBH 3/3 blank BN	374	2156.0310	KBH 3/3 Print "k"	374	2160.0219	KBH 5/3 Print "T"	375
2142.0102	KBH 3/3 blank RD	374	2156.0311	KBH 3/3 Print "l" -small	374	2160.0220	KBH 5/3 Print "U"	375
2142.0103	KBH 3/3 blank OG	374	2156.0312	KBH 3/3 Print "m"	374	2160.0221	KBH 5/3 Print "V"	375
2142.0104	KBH 3/3 blank YE	374	2156.0313	KBH 3/3 Print "n"	374	2160.0222	KBH 5/3 Print "W"	375
2142.0105	KBH 3/3 blank GN	374	2156.0314	KBH 3/3 Print "o"	374	2160.0223	KBH 5/3 Print "X"	375
2142.0106	KBH 3/3 blank BU	374	2156.0315	KBH 3/3 Print "p"	374	2160.0224	KBH 5/3 Print "Y"	375
2142.0107	KBH 3/3 blank VT	374	2156.0316	KBH 3/3 Print "q"	374	2160.0225	KBH 5/3 Print "Z"	375
2142.0108	KBH 3/3 blank GR	374	2156.0317	KBH 3/3 Print "r"	374	2160.0300	KBH 5/3 Print "a"	375
2142.0109	KBH 3/3 blank WH	374	2156.0318	KBH 3/3 Print "s"	374	2160.0301	KBH 5/3 Print "b"	375
2143.0	AQI 10/6/17 YE	293	2156.0319	KBH 3/3 Print "t"	374	2160.0302	KBH 5/3 Print "c"	375
2144.0	H 10,0/28-T BN	429	2156.0320	KBH 3/3 Print "u"	374	2160.0303	KBH 5/3 Print "d"	375
2145.0	H 16,0/22 IV	429	2156.0321	KBH 3/3 Print "v"	374	2160.0304	KBH 5/3 Print "e"	375
2146.0100	KBH 5/3 blank BK	375	2156.0322	KBH 3/3 Print "w"	374	2160.0305	KBH 5/3 Print "f"	375
2146.0101	KBH 5/3 blank BN	375	2156.0323	KBH 3/3 Print "x"	374	2160.0306	KBH 5/3 Print "g"	375
2146.0102	KBH 5/3 blank RD	375	2156.0324	KBH 3/3 Print "y"	374	2160.0307	KBH 5/3 Print "h"	375
2146.0103	KBH 5/3 blank RD	375	2156.0325	KBH 3/3 Print "z"	374	2160.0308	KBH 5/3 Print "i"	375
2146.0103	KBH 5/3 blank OG	375	2156.0400	KBH 3/3 Print "+" RD	374	2160.0309	KBH 5/3 Print "j"	375
2146.0104	KBH 5/3 blank YE	375	2156.0401	KBH 3/3 Print "-" BU	374	2160.0310	KBH 5/3 Print "k"	375
2146.0104	KBH 5/3 blank YE	375	2156.0402	KBH 3/3 Print " / "	374	2160.0311	KBH 5/3 Print "l"	375
2146.0105	KBH 5/3 blank GN	375	2156.0403	KBH 3/3 Print " . "	374	2160.0312	KBH 5/3 Print "m"	375
2146.0106	KBH 5/3 blank BU	375	2156.0404	KBH 3/3 Print " : "	374	2160.0313	KBH 5/3 Print "n"	375
2146.0107	KBH 5/3 blank VT	375	2156.0405	KBH 3/3 Print " = "	374	2160.0314	KBH 5/3 Print "o"	375
2146.0107	KBH 5/3 blank VT	375	2156.0406	KBH 3/3 Print "Earth"	374	2160.0315	KBH 5/3 Print "p"	375
2146.0108	KBH 5/3 blank GR	375	2156.0407	KBH 3/3 Print "Earth with circuit"	374	2160.0316	KBH 5/3 Print "q"	375
2146.0109	KBH 5/3 blank WH	375	2156.0408	KBH 3/3 Print " ~ "	374	2160.0317	KBH 5/3 Print "r"	375
2146.0109	KBH 5/3 blank WH	375	2156.0419	KBH 3/3 Print "+ "	374	2160.0318	KBH 5/3 Print "s"	375
2147.2	EH 2/Z BG	274	2156.0420	KBH 3/3 Print "- "	374	2160.0319	KBH 5/3 Print "t"	375
2148.0100	KBH 10/4 blank BK	376	2157.0001	SB 6/10 GW A WH	351	2160.0320	KBH 5/3 Print "u"	375
2148.0101	KBH 10/4 blank BN	376	2157.0002	SB 6/10 GW B WH	351	2160.0321	KBH 5/3 Print "v"	375
2148.0102	KBH 10/4 blank RD	376	2157.0003	SB 6/10 GW C WH	351	2160.0322	KBH 5/3 Print "w"	375
2148.0103	KBH 10/4 blank OG	376	2157.0004	SB 6/10 GW D WH	351	2160.0323	KBH 5/3 Print "x"	375
2148.0104	KBH 10/4 blank YE	376	2157.0005	SB 6/10 GW E WH	351	2160.0324	KBH 5/3 Print "y"	375
2148.0105	KBH 10/4 blank GN	376	2157.0006	SB 6/10 GW F WH	351	2160.0325	KBH 5/3 Print "z"	375
2148.0106	KBH 10/4 blank BU	376	2157.0007	SB 6/10 GW G WH	351	2160.0400	KBH 5/3 Print "+" RD	375
2148.0107	KBH 10/4 blank VT	376	2157.0008	SB 6/10 GW H WH	351	2160.0401	KBH 5/3 Print "-" BU	375
2148.0108	KBH 10/4 blank GR	376	2157.0009	SB 6/10 GW I WH	351	2160.0402	KBH 5/3 Print " / "	375
2148.0109	KBH 10/4 blank WH	376	2157.0010	SB 6/10 GW J WH	351	2160.0403	KBH 5/3 Print " . "	375
2149.0001	SB 6/10 FS U;V;W;N;PE	350	2157.0011	SB 6/10 GW K WH	351	2160.0404	KBH 5/3 Print " : "	375
2149.0002	SB 6/10 FS R;S;T;N;Earth with circuit	350	2157.0012	SB 6/10 GW L WH	351	2160.0405	KBH 5/3 Print " = "	375
2149.0003	SB 6/10 FS L1;L2;L3;N;PE	350	2157.0013	SB 6/10 GW M WH	351	2160.0406	KBH 5/3 Print "Earth"	375
2149.0004	SB 6/10 FS L1;L2;L3;N;Earth with circuit	350	2157.0014	SB 6/10 GW N WH	351	2160.0407	KBH 5/3 Print "Earth with circuit"	375
2150.0	Q 0,5 m/83 poles	289	2157.0015	SB 6/10 GW O WH	351	2160.0408	KBH 5/3 Print " ~ "	375
2151.0	Q 0,5 m/100 poles	288	2157.0016	SB 6/10 GW P WH	351	2160.0419	KBH 5/3 Print "+ "	375
2152.0	Q 0,5 m/100 poles	296	2157.0017	SB 6/10 GW Q WH	351	2160.0420	KBH 5/3 Print "- "	375
2153.0	Q 0,5 m/83 poles	289	2157.0018	SB 6/10 GW R WH	351	2161.0001	SB 6/10 GS A WH	351
2154.0	Q 0,5 m/83 poles	288	2157.0019	SB 6/10 GW S WH	351	2161.0002	SB 6/10 GS B WH	351
2156.0000	KBH 3/3 Print "0"	374	2157.0020	SB 6/10 GW T WH	351	2161.0003	SB 6/10 GS C WH	351
2156.0001	KBH 3/3 Print "1"	374	2157.0021	SB 6/10 GW U WH	351	2161.0004	SB 6/10 GS D WH	351
2156.0002	KBH 3/3 Print "2"	374	2157.0022	SB 6/10 GW V WH	351	2161.0005	SB 6/10 GS E WH	351
2156.0003	KBH 3/3 Print "3"	374	2157.0023	SB 6/10 GW W WH	351	2161.0006	SB 6/10 GS F WH	351
2156.0004	KBH 3/3 Print "4"	374	2157.0024	SB 6/10 GW X WH	351	2161.0007	SB 6/10 GS G WH	351
2156.0005	KBH 3/3 Print "5"	374	2157.0025	SB 6/10 GW Y WH	351	2161.0008	SB 6/10 GS H WH	351
2156.0006	KBH 3/3 Print "6"	374	2157.0026	SB 6/10 GW Z WH	351	2161.0009	SB 6/10 GS I WH	351
2156.0007	KBH 3/3 Print "7"	374	2157.0027	SB 6/10 GW PE WH	351	2161.0010	SB 6/10 GS J WH	351
2156.0008	KBH 3/3 Print "8"	374	2157.0028	SB 6/10 GW PEN WH	351	2161.0011	SB 6/10 GS K WH	351
2156.0009	KBH 3/3 Print "9"	374	2157.0029	SB 6/10 GW MP WH	351	2161.0012	SB 6/10 GS L WH	351
2156.0200	KBH 3/3 Print "A"	374	2157.0030	SB 6/10 GW SL WH	351	2161.0013	SB 6/10 GS M WH	351
2156.0201	KBH 3/3 Print "B"	374	2157.0031	SB 6/10 GW T1 WH	351	2161.0014	SB 6/10 GS N WH	351
2156.0202	KBH 3/3 Print "C"	374	2157.0032	SB 6/10 GW T2 WH	351	2161.0015	SB 6/10 GS O WH	351
2156.0203	KBH 3/3 Print "D"	374	2157.0033	SB 6/10 GW T3 WH	351	2161.0016	SB 6/10 GS P WH	351
2156.0204	KBH 3/3 Print "E"	374	2158.2	BKA 4/1 BG	95	2161.0017	SB 6/10 GS Q WH	351
2156.0205	KBH 3/3 Print "F"	374	2158.5	BKA 4/1 BU	95	2161.0018	SB 6/10 GS R WH	351
2156.0206	KBH 3/3 Print "G"	374	2159.2	AP 4 800 V BG	278	2161.0019	SB 6/10 GS S WH	351
2156.0207	KBH 3/3 Print "H"	374	2160.0000	KBH 5/3 Print "0"	375	2161.0020	SB 6/10 GS T WH	351
2156.0208	KBH 3/3 Print "I"	374	2160.0001	KBH 5/3 Print "1"	375	2161.0021	SB 6/10 GS U WH	351
2156.0209	KBH 3/3 Print "J"	374	2160.0002	KBH 5/3 Print "2"	375	2161.0022	SB 6/10 GS V WH	351
2156.0210	KBH 3/3 Print "K"	374	2160.0003	KBH 5/3 Print "3"	375	2161.0023	SB 6/10 GS W WH	351
2156.0211	KBH 3/3 Print "L"	374	2160.0004	KBH 5/3 Print "4"	375	2161.0024	SB 6/10 GS X WH	351
2156.0212	KBH 3/3 Print "M"	374	2160.0005	KBH 5/3 Print "5"	375	2161.0025	SB 6/10 GS Y WH	351
2156.0213	KBH 3/3 Print "N"	374	2160.0006	KBH 5/3 Print "6"	375	2161.0026	SB 6/10 GS Z WH	351
2156.0214	KBH 3/3 Print "O"	374	2160.0007	KBH 5/3 Print "7"	375	2161.0027	SB 6/10 GS PE WH	351
2156.0215	KBH 3/3 Print "P"	374	2160.0008	KBH 5/3 Print "8"	375	2161.0028	SB 6/10 GS PEN WH	351
2156.0216	KBH 3/3 Print "Q"	374	2160.0009	KBH 5/3 Print "9"	375	2161.0029	SB 6/10 GS MP WH	351
2156.0217	KBH 3/3 Print "R"	374	2160.0200	KBH 5/3 Print "A"	375	2161.0030	SB 6/10 GS SL WH	351
2156.0218	KBH 3/3 Print "S"	374	2160.0201	KBH 5/3 Print "B"	375	2161.0031	SB 6/10 GS T1 WH	351
2156.0219	KBH 3/3 Print "T"	374	2160.0202	KBH 5/3 Print "C"	375	2161.0032	SB 6/10 GS T2 WH	351
2156.0220	KBH 3/3 Print "U"	374	2160.0203	KBH 5/3 Print "D"	375	2161.0033	SB 6/10 GS T3 WH	351
2156.0221	KBH 3/3 Print "V"	374	2160.0204	KBH 5/3 Print "E"	375	2161.0034	SB 6/10 GS + WH	351
2156.0222	KBH 3/3 Print "W"	374	2160.0205	KBH 5/3 Print "F"	375	2161.0035	SB 6/10 GS - WH	351
2156.0223	KBH 3/3 Print "X"	374	2160.0206	KBH 5/3 Print "G"	375	2161.0036	SB 6/10 GS - WH	351
2156.0224	KBH 3/3 Print "Y"	374	2160.0207	KBH 5/3 Print "H"	375	2161.0037	SB 6/10 GS Earth WH	351
2156.0225	KBH 3/3 Print "Z"	374	2160.0208	KBH 5/3 Print "I"	375	2161.0038	SB 6/10 GS Earth with circuit WH	351
2156.0300	KBH 3/3 Print "a"	374	2160.0209	KBH 5/3 Print "J"	375	2162.0000	KBH 10/4 Print "0"	376
2156.0301	KBH 3/3 Print "b"	374	2160.0210	KBH 5/3 Print "K"	375	2162.0001	KBH 10/4 Print "1"	376
2156.0302	KBH 3/3 Print "c"	374	2160.0211	KBH 5/3 Print "L"	375	2162.0002	KBH 10/4 Print "2"	376
2156.0303	KBH 3/3 Print "d"	374	2160.0212	KBH 5/3 Print "M"	375	2162.0003	KBH 10/4 Print "3"	376
2156.0304	KBH 3/3 Print "e"	374	2160.0213	KBH 5/3 Print "N"	375	2162.0004	KBH 10/4 Print "4"	376
2156.0305	KBH 3/3 Print "f"	374	2160.0214	KBH 5/3 Print "O"	375	2162.0005	KBH 10/4 Print "5"	376

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2162.0006	KBH 10/4 Print "6"	376	2186.5	AP/SI-2 BU	278	2324.2	RKD 4/RD1 BG	53
2162.0007	KBH 10/4 Print "7"	376	2187.2	AP SID-1 BG	278	2326.0	BS M 2,5x10	297
2162.0008	KBH 10/4 Print "8"	376	2187.3	AP SID-1 OG	278	2327.0	VH 5	297
2162.0009	KBH 10/4 Print "9"	376	2187.5	AP SID-1 BU	278	2328.0	ZB 4/6	90
2162.0200	KBH 10/4 Print "A"	376	2190.2	STK 1 BG	77	2328.0	ZB 4/6	238
2162.0201	KBH 10/4 Print "B"	376	2190.5	STK 1 BU	77	2329.0	ZB 16/6	91
2162.0202	KBH 10/4 Print "C"	376	2191.2	STK 1/15 BG	77	2329.0	ZB 16/6	239
2162.0203	KBH 10/4 Print "D"	376	2191.5	STK 1/15 BU	77	2330.2	BKA 4/4 e.B. BG	95
2162.0204	KBH 10/4 Print "E"	376	2193.2	TK 2/K BG	67	2331.2	BKA 4/5 e.B. BG	95
2162.0205	KBH 10/4 Print "F"	376	2193.5	TK 2/K BU	67	2332.2	BKA 4/6 e.B. BG	95
2162.0206	KBH 10/4 Print "G"	376	2194.2	TK 2/15/K BG	67	2333.2	BKA 4/8 e.B. BG	95
2162.0207	KBH 10/4 Print "H"	376	2194.5	TK 2/15/K BU	67	2334.2	BKA 4/10 e.B. BG	95
2162.0208	KBH 10/4 Print "I"	376	2197.0	QVS 2	327	2335.2	BKA 4/12 e.B. BG	95
2162.0209	KBH 10/4 Print "J"	376	2198.0	QVS 3	327	2336.2	BKA 4/13 e.B. BG	95
2162.0210	KBH 10/4 Print "K"	376	2199.0	QVS 4	327	2337.2	BKA 4/14 e.B. BG	95
2162.0211	KBH 10/4 Print "L"	376	2200			2338.2	BKA 4/15 e.B. BG	95
2162.0212	KBH 10/4 Print "M"	376	2201.0	H 0,5/14 OG	428	2339.2	BKA 4/16 e.B. BG	95
2162.0213	KBH 10/4 Print "N"	376	2202.0	H 0,75/14 WH	428	2340.2	BKA 4/18 e.B. BG	95
2162.0214	KBH 10/4 Print "O"	376	2203.0	H 1,0/14 YE	428	2341.2	BKA 4/20 e.B. BG	95
2162.0215	KBH 10/4 Print "P"	376	2204.0	H 1,5/14 RD	428	2342.2	BKA 4/24 e.B. BG	95
2162.0216	KBH 10/4 Print "Q"	376	2205.0	H 1,5/24 RD	428	2343.2	BKA 4/2 b.B. BG	95
2162.0217	KBH 10/4 Print "R"	376	2210.0	H 6,0/20 BK	428	2344.2	BKA 4/3 b.B. BG	95
2162.0218	KBH 10/4 Print "S"	376	2211.0	H 6,0/26 BK	428	2345.2	BKA 4/4 b.B. BG	95
2162.0219	KBH 10/4 Print "T"	376	2212.0	H 10,0/22 IV	428	2346.2	BKA 4/5 b.B. BG	95
2162.0220	KBH 10/4 Print "U"	376	2213.0	H 10,0/28 IV	428	2347.2	BKA 4/6 b.B. BG	95
2162.0221	KBH 10/4 Print "V"	376	2214.0	H 16,0/22 GN	428	2348.2	BKA 4/10 b.B. BG	95
2162.0222	KBH 10/4 Print "W"	376	2215.0	H 16,0/28 GN	428	2349.2	BKA 4/10 b.B. BG	95
2162.0223	KBH 10/4 Print "X"	376	2216.0	H 0,5/6	432	2350.2	BKA 4/12 b.B. BG	95
2162.0224	KBH 10/4 Print "Y"	376	2217.0	H 0,75/6	432	2351.2	BKA 4/13 b.B. BG	95
2162.0225	KBH 10/4 Print "Z"	376	2218.0	H 0,75/10	432	2352.2	BKA 4/14 b.B. BG	95
2162.0300	KBH 10/4 Print "a"	376	2219.0	H 1,0/6	432	2353.2	BKA 4/15 b.B. BG	95
2162.0301	KBH 10/4 Print "b"	376	2220.0	H 1,0/10	432	2354.2	BKA 4/16 b.B. BG	95
2162.0302	KBH 10/4 Print "c"	376	2221.0	H 1,5/7	432	2355.2	BKA 4/18 b.B. BG	95
2162.0303	KBH 10/4 Print "d"	376	2222.0	H 1,5/10	432	2356.2	BKA 4/20 b.B. BG	95
2162.0304	KBH 10/4 Print "e"	376	2223.0	H 2,5/7	432	2357.2	BKA 4/24 b.B. BG	95
2162.0305	KBH 10/4 Print "f"	376	2224.0	H 2,5/12	432	2360.0	EP 240	41
2162.0306	KBH 10/4 Print "g"	376	2225.0	H 4,0/9	432	2361.0	SchT 7 long joint	276
2162.0307	KBH 10/4 Print "h"	376	2226.0	H 4,0/12	432	2365.0	BS M 3x6	297
2162.0308	KBH 10/4 Print "i"	376	2227.0	H 6,0/12	432	2366.0	QS 2	296
2162.0309	KBH 10/4 Print "j"	376	2228.0	H 10,0/12	432	2367.0	QS 3	296
2162.0310	KBH 10/4 Print "k"	376	2229.0	H 10,0/18	432	2368.0	QS 4	296
2162.0311	KBH 10/4 Print "l"	376	2238.0	VH 19	327	2369.0	QS 10	296
2162.0312	KBH 10/4 Print "m"	376	2240.0	BS 25 without cap	327	2370.0	TS 32 ALU	269
2162.0313	KBH 10/4 Print "n"	376	2241.0	BS 25 YE	327	2372.0	TS 35x15 PVC	270
2162.0314	KBH 10/4 Print "o"	376	2242.0	BS 25 GN	327	2373.0	STB 6	317
2162.0315	KBH 10/4 Print "p"	376	2243.0	BS 25 VT	327	2374.0	STB 7	317
2162.0316	KBH 10/4 Print "q"	376	2244.0	STB 35 YE	327	2376.0	SK 27	433
2162.0317	KBH 10/4 Print "r"	376	2245.0	STB 35 GN	327	2377.0	E 27	433
2162.0318	KBH 10/4 Print "s"	376	2249.0	STB 35 VT	327	2378.0	TS 15 ALU slotted	273
2162.0319	KBH 10/4 Print "t"	376	2257.0	Q 2	290	2379.0	TW 71 BG	316
2162.0320	KBH 10/4 Print "u"	376	2258.0	Q 3	290	2380.0	TW 97 BG	316
2162.0321	KBH 10/4 Print "v"	376	2262.0	BS M 4x8	232	2381.0	AH 40 transparent	313
2162.0322	KBH 10/4 Print "w"	376	2265.0	Q 4	290	2382.0	AH 50 transparent	313
2162.0323	KBH 10/4 Print "x"	376	2266.0	Q 10	290	2383.0	KSH 6/33	382
2162.0324	KBH 10/4 Print "y"	376	2267.0	H 25,0/30 BN	428	2384.0	KSH 11/33	382
2162.0325	KBH 10/4 Print "z"	376	2268.2	IKD 2,5/Q BG	56	2385.0	BS AD/M 2,9x6,5	313
2162.0400	KBH 10/4 Print "+ RD	376	2268.2	IKD 2,5/Q BG	60	2386.0	QS 0,5m	296
2162.0401	KBH 10/4 Print "- BU	376	2268.5	IKD 2,5/Q BU	56	2387.0	QS 0,5m	296
2162.0402	KBH 10/4 Print " / "	376	2269.2	IKD 2,5 F/Q BG	57	2388.0	H 6,0/15	432
2162.0403	KBH 10/4 Print " . "	376	2269.2	IKD 2,5 F/Q BG	60	2389.0	H 10,0/15	432
2162.0404	KBH 10/4 Print " : "	376	2272.0	H 25,0/36 BN	428	2390.0	H 35,0/39 BG	428
2162.0405	KBH 10/4 Print "= "	376	2274.0	EP 50	41	2391.0	H 16,0/12	432
2162.0406	KBH 10/4 Print "Earth"	376	2275.0	EP 95	41	2392.0	H 16,0/15	432
2162.0407	KBH 10/4 Print "Earth with circuit"	376	2276.0	H 35,0/30 BG	428	2393.0	H 16,0/18	432
2162.0408	KBH 10/4 Print " - "	376	2277.0	EP 150	41	2394.0	H 25,0/15	432
2162.0419	KBH 10/4 Print "+ "	376	2278.0	SDIK 1,0x80	422	2395.0	H 25,0/18	432
2162.0420	KBH 10/4 Print "- "	376	2279.0	SDIK 2,0x100	422	2396.0	H 35,0/18	432
2164.0	Q 2	290	2283.0	VH 8	297	2397.0	H 0,5/12 OG	428
2165.0	Q 3	290	2284.0	BS M 3x15 w. SS	297	2398.0	H 0,75/12 WH	428
2166.0	Q 4	290	2289.0	SDK 1,0x80	422	2399.0	H 1,0/12 YE	428
2167.0	Q 10	290	2290.0	SDK 2,0x100	422	2400		
2170.2	BKA 4/2 BG	95	2300			2400.0	H 1,5/16 RD	428
2171.2	BKA 4/3 BG	95	2303.0	TSTW/M 6	272	2404.0001	SB 5/10 FW X1;Y1;Z1 WH	348
2172.2	BKA 4/4 BG	95	2304.0	BS M 6x12/IS	272	2404.0002	SB 5/10 FW X2;Y2;Z2 WH	348
2173.2	BKA 4/5 BG	95	2305.0	ZB 35	91	2404.0003	SB 5/10 FW X3;Y3;Z3 WH	348
2174.2	BKA 4/6 BG	95	2305.0	ZB 35	239	2404.0004	SB 5/10 FW X4;Y4;Z4 WH	348
2175.0001	SB 6/10 GW + WH	351	2306.0	QL 2	291	2404.0005	SB 5/10 FW X5;Y5;Z5 WH	348
2175.0002	SB 6/10 GW - WH	351	2308.2	BKA 4/2 e.B. BG	95	2404.0006	SB 5/10 FW X6;Y6;Z6 WH	348
2175.0003	SB 6/10 GW - WH	351	2309.2	BKA 4/3 e.B. BG	95	2404.0007	SB 5/10 FW X7;Y7;Z7 WH	348
2175.0004	SB 6/10 GW Earth WH	351	2310.2	RKD 4/LED1(RD)/6V DC BG	53	2404.0008	SB 5/10 FW X8;Y8;Z8 WH	348
2175.0005	SB 6/10 GW Earth with circuit WH	351	2311.2	RKD 4/LED2(RD)/6V DC BG	53	2404.0009	SB 5/10 FW X9;Y9;Z9 WH	348
2175.2	BKA 4/8 BG	95	2312.2	RKD 4/LED1(GN)/24V DC BG	53	2404.0010	SB 5/10 FW X10;Y10;Z10 WH	348
2176.2	BKA 4/10 BG	95	2313.2	RKD 4/LED2(GN)/24V DC BG	53	2404.0011	SB 5/10 FW R1;S1;T1 WH	348
2177.2	BKA 4/12 BG	95	2314.2	RKD 4/LED1(RD)/60V DC BG	53	2404.0012	SB 5/10 FW R2;S2;T2 WH	348
2178.2	BKA 4/15 BG	95	2315.2	RKD 4/LED2(RD)/60V DC BG	53	2404.0013	SB 5/10 FW R3;S3;T3 WH	348
2179.2	BKA 4/20 BG	95	2316.2	RKD 4/LED5(RD)/150V AC BG	55	2404.0014	SB 5/10 FW R4;S4;T4 WH	348
2180.2	EH 4 BG	275	2318.2	SH 1 BG	240	2404.0015	SB 5/10 FW R5;S5;T5 WH	348
2181.0	AQV 2 PE/N 10	295	2319.2	RKD 4/D0 BG	51	2404.0016	SB 5/10 FW R6;S6;T6 WH	348
2182.0	AQV 2 PE/N 16	295	2320.2	RKD 4/D6 BG	52	2404.0017	SB 5/10 FW R7;S7;T7 WH	348
2183.0	AQV 2 PE/N 35	295	2321.2	RKD 4/D5 BG	52	2404.0018	SB 5/10 FW R8;S8;T8 WH	348
2186.2	AP/SI-2 BG	278	2322.2	RKD 4/D3 BG	52	2404.0019	SB 5/10 FW R9;S9;T9 WH	348
2186.3	AP/SI-2 OG	278	2323.2	RKD 4/D4 BG	53	2404.0020	SB 5/10 FW R10;S10;T10 WH	348

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2404.0021	SB 5/10 FW U1;V1;W1 WH	348	2432.0047	SB 5/10 GW 47 WH	348	2434.0029	SB 5/10 GS 29 WH	349
2404.0022	SB 5/10 FW U2;V2;W2 WH	348	2432.0048	SB 5/10 GW 48 WH	348	2434.0030	SB 5/10 GS 30 WH	349
2404.0023	SB 5/10 FW U3;V3;W3 WH	348	2432.0049	SB 5/10 GW 49 WH	348	2434.0031	SB 5/10 GS 31 WH	349
2404.0024	SB 5/10 FW U4;V4;W4 WH	348	2432.0050	SB 5/10 GW 50 WH	348	2434.0032	SB 5/10 GS 32 WH	349
2404.0025	SB 5/10 FW U5;V5;W5 WH	348	2432.0051	SB 5/10 GW 51 WH	348	2434.0033	SB 5/10 GS 33 WH	349
2404.0026	SB 5/10 FW U6;V6;W6 WH	348	2432.0052	SB 5/10 GW 52 WH	348	2434.0034	SB 5/10 GS 34 WH	349
2404.0027	SB 5/10 FW U7;V7;W7 WH	348	2432.0053	SB 5/10 GW 53 WH	348	2434.0035	SB 5/10 GS 35 WH	349
2404.0028	SB 5/10 FW U8;V8;W8 WH	348	2432.0054	SB 5/10 GW 54 WH	348	2434.0036	SB 5/10 GS 36 WH	349
2404.0029	SB 5/10 FW U9;V9;W9 WH	348	2432.0055	SB 5/10 GW 55 WH	348	2434.0037	SB 5/10 GS 37 WH	349
2404.0030	SB 5/10 FW U10;V10;W10 WH	348	2432.0056	SB 5/10 GW 56 WH	348	2434.0038	SB 5/10 GS 38 WH	349
2410.0	QS 2	298	2432.0057	SB 5/10 GW 57 WH	348	2434.0039	SB 5/10 GS 39 WH	349
2411.0	QS 2	298	2432.0058	SB 5/10 GW 58 WH	348	2434.0040	SB 5/10 GS 40 WH	349
2412.0	QS 2	298	2432.0059	SB 5/10 GW 59 WH	348	2434.0041	SB 5/10 GS 41 WH	349
2413.0	QS 2	299	2432.0060	SB 5/10 GW 60 WH	348	2434.0042	SB 5/10 GS 42 WH	349
2414.0	TSTW/M 5	272	2432.0061	SB 5/10 GW 61 WH	348	2434.0043	SB 5/10 GS 43 WH	349
2415.0	BS M 5x8/IS	272	2432.0062	SB 5/10 GW 62 WH	348	2434.0044	SB 5/10 GS 44 WH	349
2417.0	QS 2	296	2432.0063	SB 5/10 GW 63 WH	349	2434.0045	SB 5/10 GS 45 WH	349
2418.0	QS 3	296	2432.0064	SB 5/10 GW 64 WH	349	2434.0046	SB 5/10 GS 46 WH	349
2419.0	QS 4	296	2432.0065	SB 5/10 GW 65 WH	349	2434.0047	SB 5/10 GS 47 WH	349
2420.0	QS 10	296	2432.0066	SB 5/10 GW 66 WH	349	2434.0048	SB 5/10 GS 48 WH	349
2421.2	AP/FF 1/15 BG	278	2432.0067	SB 5/10 GW 67 WH	349	2434.0049	SB 5/10 GS 49 WH	349
2422.0	Q 2	288	2432.0068	SB 5/10 GW 68 WH	349	2434.0050	SB 5/10 GS 50 WH	349
2423.0	Q 3	288	2432.0069	SB 5/10 GW 69 WH	349	2434.0051	SB 5/10 GS 51 WH	349
2424.0	Q 4	288	2432.0070	SB 5/10 GW 70 WH	349	2434.0052	SB 5/10 GS 52 WH	349
2425.0	Q 10	288	2432.0071	SB 5/10 GW 71 WH	349	2434.0053	SB 5/10 GS 53 WH	349
2426.2	TW 2,5 BG	316	2432.0072	SB 5/10 GW 72 WH	349	2434.0054	SB 5/10 GS 54 WH	349
2427.1	AP 2,5/15 GN	278	2432.0073	SB 5/10 GW 73 WH	349	2434.0055	SB 5/10 GS 55 WH	349
2427.2	AP 2,5/15 BG	278	2432.0074	SB 5/10 GW 74 WH	349	2434.0056	SB 5/10 GS 56 WH	349
2427.3	AP 2,5/15 OG	278	2432.0075	SB 5/10 GW 75 WH	349	2434.0057	SB 5/10 GS 57 WH	349
2427.5	AP 2,5/15 BU	278	2432.0076	SB 5/10 GW 76 WH	349	2434.0058	SB 5/10 GS 58 WH	349
2427.8	AP 2,5/15 YE	278	2432.0077	SB 5/10 GW 77 WH	349	2434.0059	SB 5/10 GS 59 WH	349
2427.9	AP 2,5/15 RD	278	2432.0078	SB 5/10 GW 78 WH	349	2434.0060	SB 5/10 GS 60 WH	349
2428.2	TW 2,5/15 BG	316	2432.0079	SB 5/10 GW 79 WH	349	2434.0061	SB 5/10 GS 61 WH	349
2429.0	IH 6,3	213	2432.0080	SB 5/10 GW 80 WH	349	2434.0062	SB 5/10 GS 62 WH	349
2430.0	SB 5/10 WH	348	2432.0081	SB 5/10 GW 81 WH	349	2434.0063	SB 5/10 GS 63 WH	349
2431.0001	SB 5/10 FW 1-10 WH	348	2432.0082	SB 5/10 GW 82 WH	349	2434.0064	SB 5/10 GS 64 WH	349
2431.0002	SB 5/10 FW 11-20 WH	348	2432.0083	SB 5/10 GW 83 WH	349	2434.0065	SB 5/10 GS 65 WH	349
2431.0003	SB 5/10 FW 21-30 WH	348	2432.0084	SB 5/10 GW 84 WH	349	2434.0066	SB 5/10 GS 66 WH	349
2431.0004	SB 5/10 FW 31-40 WH	348	2432.0085	SB 5/10 GW 85 WH	349	2434.0067	SB 5/10 GS 67 WH	349
2431.0005	SB 5/10 FW 41-50 WH	348	2432.0086	SB 5/10 GW 86 WH	349	2434.0068	SB 5/10 GS 68 WH	349
2431.0006	SB 5/10 FW 51-60 WH	348	2432.0087	SB 5/10 GW 87 WH	349	2434.0069	SB 5/10 GS 69 WH	349
2431.0007	SB 5/10 FW 61-70 WH	348	2432.0088	SB 5/10 GW 88 WH	349	2434.0070	SB 5/10 GS 70 WH	349
2431.0008	SB 5/10 FW 71-80 WH	348	2432.0089	SB 5/10 GW 89 WH	349	2434.0071	SB 5/10 GS 71 WH	349
2431.0009	SB 5/10 FW 81-90 WH	348	2432.0090	SB 5/10 GW 90 WH	349	2434.0072	SB 5/10 GS 72 WH	349
2431.0010	SB 5/10 FW 91-100 WH	348	2432.0091	SB 5/10 GW 91 WH	349	2434.0073	SB 5/10 GS 73 WH	349
2431.7	SB 5/10 So WH	348	2432.0092	SB 5/10 GW 92 WH	349	2434.0074	SB 5/10 GS 74 WH	349
2432.0001	SB 5/10 GW 1 WH	348	2432.0093	SB 5/10 GW 93 WH	349	2434.0075	SB 5/10 GS 75 WH	349
2432.0002	SB 5/10 GW 2 WH	348	2432.0094	SB 5/10 GW 94 WH	349	2434.0076	SB 5/10 GS 76 WH	349
2432.0003	SB 5/10 GW 3 WH	348	2432.0095	SB 5/10 GW 95 WH	349	2434.0077	SB 5/10 GS 77 WH	349
2432.0004	SB 5/10 GW 4 WH	348	2432.0096	SB 5/10 GW 96 WH	349	2434.0078	SB 5/10 GS 78 WH	349
2432.0005	SB 5/10 GW 5 WH	348	2432.0097	SB 5/10 GW 97 WH	349	2434.0079	SB 5/10 GS 79 WH	349
2432.0006	SB 5/10 GW 6 WH	348	2432.0098	SB 5/10 GW 98 WH	349	2434.0080	SB 5/10 GS 80 WH	349
2432.0007	SB 5/10 GW 7 WH	348	2432.0099	SB 5/10 GW 99 WH	349	2434.0081	SB 5/10 GS 81 WH	349
2432.0008	SB 5/10 GW 8 WH	348	2432.0100	SB 5/10 GW 100 WH	349	2434.0082	SB 5/10 GS 82 WH	349
2432.0009	SB 5/10 GW 9 WH	348	2433.0001	SB 5/10 FS 1-10 WH	348	2434.0083	SB 5/10 GS 83 WH	349
2432.0010	SB 5/10 GW 10 WH	348	2433.0002	SB 5/10 FS 11-20 WH	348	2434.0084	SB 5/10 GS 84 WH	349
2432.0011	SB 5/10 GW 11 WH	348	2433.0003	SB 5/10 FS 21-30 WH	348	2434.0085	SB 5/10 GS 85 WH	349
2432.0012	SB 5/10 GW 12 WH	348	2433.0004	SB 5/10 FS 31-40 WH	348	2434.0086	SB 5/10 GS 86 WH	349
2432.0013	SB 5/10 GW 13 WH	348	2433.0005	SB 5/10 FS 41-50 WH	348	2434.0087	SB 5/10 GS 87 WH	349
2432.0014	SB 5/10 GW 14 WH	348	2433.0006	SB 5/10 FS 51-60 WH	348	2434.0088	SB 5/10 GS 88 WH	349
2432.0015	SB 5/10 GW 15 WH	348	2433.0007	SB 5/10 FS 61-70 WH	348	2434.0089	SB 5/10 GS 89 WH	349
2432.0016	SB 5/10 GW 16 WH	348	2433.0008	SB 5/10 FS 71-80 WH	348	2434.0090	SB 5/10 GS 90 WH	349
2432.0017	SB 5/10 GW 17 WH	348	2433.0009	SB 5/10 FS 81-90 WH	348	2434.0091	SB 5/10 GS 91 WH	349
2432.0018	SB 5/10 GW 18 WH	348	2433.0010	SB 5/10 FS 91-100 WH	348	2434.0092	SB 5/10 GS 92 WH	349
2432.0019	SB 5/10 GW 19 WH	348	2434.0001	SB 5/10 GS 1 WH	349	2434.0093	SB 5/10 GS 93 WH	349
2432.0020	SB 5/10 GW 20 WH	348	2434.0002	SB 5/10 GS 2 WH	349	2434.0094	SB 5/10 GS 94 WH	349
2432.0021	SB 5/10 GW 21 WH	348	2434.0003	SB 5/10 GS 3 WH	349	2434.0095	SB 5/10 GS 95 WH	349
2432.0022	SB 5/10 GW 22 WH	348	2434.0004	SB 5/10 GS 4 WH	349	2434.0096	SB 5/10 GS 96 WH	349
2432.0023	SB 5/10 GW 23 WH	348	2434.0005	SB 5/10 GS 5 WH	349	2434.0097	SB 5/10 GS 97 WH	349
2432.0024	SB 5/10 GW 24 WH	348	2434.0006	SB 5/10 GS 6 WH	349	2434.0098	SB 5/10 GS 98 WH	349
2432.0025	SB 5/10 GW 25 WH	348	2434.0007	SB 5/10 GS 7 WH	349	2434.0099	SB 5/10 GS 99 WH	349
2432.0026	SB 5/10 GW 26 WH	348	2434.0008	SB 5/10 GS 8 WH	349	2434.0100	SB 5/10 GS 100 WH	349
2432.0027	SB 5/10 GW 27 WH	348	2434.0009	SB 5/10 GS 9 WH	349	2435.0	IH 2,8	213
2432.0028	SB 5/10 GW 28 WH	348	2434.0010	SB 5/10 GS 10 WH	349	2436.2	RKD 4/LED3(RD)/24V DC BG	54
2432.0029	SB 5/10 GW 29 WH	348	2434.0011	SB 5/10 GS 11 WH	349	2437.2	RKD 4/LED3(GN)/24V DC BG	54
2432.0030	SB 5/10 GW 30 WH	348	2434.0012	SB 5/10 GS 12 WH	349	2438.2	RKD 4/LED4(RD)/24V DC BG	54
2432.0031	SB 5/10 GW 31 WH	348	2434.0013	SB 5/10 GS 13 WH	349	2439.2	RKD 4/LED4(GN)/24V DC BG	54
2432.0032	SB 5/10 GW 32 WH	348	2434.0014	SB 5/10 GS 14 WH	349	2440.2	RKD 4/RD5 BG	53
2432.0033	SB 5/10 GW 33 WH	348	2434.0015	SB 5/10 GS 15 WH	349	2449.2	STK 1/LED(RD)/24V DC BG	77
2432.0034	SB 5/10 GW 34 WH	348	2434.0016	SB 5/10 GS 16 WH	349	2450.2	STK 1/LED(RD)/48V DC BG	77
2432.0035	SB 5/10 GW 35 WH	348	2434.0017	SB 5/10 GS 17 WH	349	2451.2	STK 1/LED(RD)/60V DC BG	77
2432.0036	SB 5/10 GW 36 WH	348	2434.0018	SB 5/10 GS 18 WH	349	2452.2	STK 1/LED(RD)/115V DC BG	77
2432.0037	SB 5/10 GW 37 WH	348	2434.0019	SB 5/10 GS 19 WH	349	2453.2	STK 1/LED(RD)/230V DC BG	77
2432.0038	SB 5/10 GW 38 WH	348	2434.0020	SB 5/10 GS 20 WH	349	2454.2	STK 1/LED(RD)/24V AC BG	77
2432.0039	SB 5/10 GW 39 WH	348	2434.0021	SB 5/10 GS 21 WH	349	2455.2	STK 1/LED(RD)/48V AC BG	77
2432.0040	SB 5/10 GW 40 WH	348	2434.0022	SB 5/10 GS 22 WH	349	2456.2	STK 1/LED(RD)/60V AC BG	77
2432.0041	SB 5/10 GW 41 WH	348	2434.0023	SB 5/10 GS 23 WH	349	2457.2	STK 1/LED(RD)/115V AC BG	77
2432.0042	SB 5/10 GW 42 WH	348	2434.0024	SB 5/10 GS 24 WH	349	2458.2	STK 1/LED(RD)/230V AC BG	77
2432.0043	SB 5/10 GW 43 WH	348	2434.0025	SB 5/10 GS 25 WH	349	2459.2	STK 1/15/LED(RD)/24V DC BG	77
2432.0044	SB 5/10 GW 44 WH	348	2434.0026	SB 5/10 GS 26 WH	349	2460.2	STK 1/15/LED(RD)/48V DC BG	77
2432.0045	SB 5/10 GW 45 WH	348	2434.0027	SB 5/10 GS 27 WH	349	2461.2	STK 1/15/LED(RD)/60V DC BG	77
2432.0046	SB 5/10 GW 46 WH	348	2434.0028	SB 5/10 GS 28 WH	349	2462.2	STK 1/15/LED(RD)/115V DC BG	77

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2463.2	STK 1/15/LED(RD)/230V DC BG	77	2475.0009	SB 5/10 GS I WH	349	2518.0	STB 30,5 VT	317
2464.2	STK 1/15/LED(RD)/24V AC BG	77	2475.0010	SB 5/10 GS J WH	349	2519.0	QS 0,5 m	296
2465.2	STK 1/15/LED(RD)/48V AC BG	77	2475.0011	SB 5/10 GS K WH	349	2525.0	KBH-S 21 blank WH	388
2466.2	STK 1/15/LED(RD)/60V AC BG	77	2475.0012	SB 5/10 GS L WH	349	2527.0000	KBH-S BK Print "0"	390
2467.2	STK 1/15/LED(RD)/115V AC BG	77	2475.0013	SB 5/10 GS M WH	349	2527.0001	KBH-S BN Print "1"	390
2468.2	STK 1/15/LED(RD)/230V AC BG	77	2475.0014	SB 5/10 GS N WH	349	2527.0002	KBH-S RD Print "2"	390
2469.2	RKD 4/LED(RD)/230V AC BG	55	2475.0015	SB 5/10 GS O WH	349	2527.0003	KBH-S OG Print "3"	390
2470.0	KH 5	66	2475.0016	SB 5/10 GS P WH	349	2527.0004	KBH-S YE Print "4"	390
2471.0001	SB 5/10 FW U;V;W;N;PE WH	348	2475.0017	SB 5/10 GS Q WH	349	2527.0005	KBH-S GN Print "5"	390
2471.0002	SB 5/10 FW R;S;T;N;Earth with circuit WH	348	2475.0018	SB 5/10 GS R WH	349	2527.0006	KBH-S BU Print "6"	390
2471.0003	SB 5/10 FW L1;L2;L3;N;PE WH	348	2475.0019	SB 5/10 GS S WH	349	2527.0007	KBH-S VT Print "7"	390
2471.0004	SB 5/10 FW L1;L2;L3;N;Earth with circuit WH	348	2475.0020	SB 5/10 GS T WH	349	2527.0008	KBH-S GR Print "8"	390
2472.0001	SB 5/10 FS X1;Y1;Z1 WH	348	2475.0021	SB 5/10 GS U WH	349	2527.0009	KBH-S WH Print "9"	390
2472.0002	SB 5/10 FS X2;Y2;Z2 WH	348	2475.0022	SB 5/10 GS V WH	349	2528.0	SchT 4/8	276
2472.0003	SB 5/10 FS X3;Y3;Z3 WH	348	2475.0023	SB 5/10 GS W WH	349	2529.0	SchT 6/12	276
2472.0004	SB 5/10 FS X4;Y4;Z4 WH	348	2475.0024	SB 5/10 GS X WH	349	2530.0	SchT 11	277
2472.0005	SB 5/10 FS X5;Y5;Z5 WH	348	2475.0025	SB 5/10 GS Y WH	349	2531.0	SchT 12	277
2472.0006	SB 5/10 FS X6;Y6;Z6 WH	348	2475.0026	SB 5/10 GS Z WH	349	2532.0	KBH-S 36 blank YE	388
2472.0007	SB 5/10 FS X7;Y7;Z7 WH	348	2475.0027	SB 5/10 GS PE WH	349	2533.0	KBH-S 36 blank WH	388
2472.0008	SB 5/10 FS X8;Y8;Z8 WH	348	2475.0028	SB 5/10 GS PEN WH	349	2534.0	QKS 1	434
2472.0009	SB 5/10 FS X9;Y9;Z9 WH	348	2475.0029	SB 5/10 GS MP WH	349	2535.0	QKS 1	434
2472.0010	SB 5/10 FS X10;Y10;Z10 WH	348	2475.0030	SB 5/10 GS SL WH	349	2536.0	QKS 1	434
2472.0011	SB 5/10 FS R1;S1;T1 WH	348	2475.0031	SB 5/10 GS T1 WH	349	2537.0	QKS 2,5	434
2472.0012	SB 5/10 FS R2;S2;T2 WH	348	2475.0032	SB 5/10 GS T2 WH	349	2538.0	QKS 2,5	434
2472.0013	SB 5/10 FS R3;S3;T3 WH	348	2475.0033	SB 5/10 GS T3 WH	349	2539.0	QKS 2,5	434
2472.0014	SB 5/10 FS R4;S4;T4 WH	348	2475.0034	SB 5/10 GS + WH	349	2540.0	QKS 2,5	434
2472.0015	SB 5/10 FS R5;S5;T5 WH	348	2475.0035	SB 5/10 GS - WH	349	2541.0	QKS 6	434
2472.0016	SB 5/10 FS R6;S6;T6 WH	348	2475.0036	SB 5/10 GS - WH	349	2542.0	QKS 6	434
2472.0017	SB 5/10 FS R7;S7;T7 WH	348	2475.0037	SB 5/10 GS Earth WH	349	2543.0	QKS 6	434
2472.0018	SB 5/10 FS R8;S8;T8 WH	348	2475.0038	SB 5/10 GS Earth with circuit WH	349	2544.0	QKS 6	434
2472.0019	SB 5/10 FS R9;S9;T9 WH	348	2477.0	AQ 58	295	2545.0	SKS 1	434
2472.0020	SB 5/10 FS R10;S10;T10 WH	348	2478.0	AQ 58	295	2546.0	SKS 2,5	434
2472.0021	SB 5/10 FS U1;V1;W1 WH	348	2480.0	AQI 75/6/17 YE	293	2547.0	SKS 6	434
2472.0022	SB 5/10 FS U2;V2;W2 WH	348	2481.0	AQI 75/6/11 YE	292	2548.0	FSH 1/2,8	435
2472.0023	SB 5/10 FS U3;V3;W3 WH	348	2483.1	ZB 4/K GNYE	90	2549.0	FSH 1/2,8	435
2472.0024	SB 5/10 FS U4;V4;W4 WH	348	2483.1	ZB 4/K GNYE	238	2550.0	FSH 1/6,3	435
2472.0025	SB 5/10 FS U5;V5;W5 WH	348	2483.4	ZB 4/K BK	90	2551.0	FSH 2,5/6,3	435
2472.0026	SB 5/10 FS U6;V6;W6 WH	348	2483.4	ZB 4/K BK	238	2552.0	FSH 6/6,3	435
2472.0027	SB 5/10 FS U7;V7;W7 WH	348	2483.5	ZB 4/K BU	90	2553.0	FSH 1	435
2472.0028	SB 5/10 FS U8;V8;W8 WH	348	2483.5	ZB 4/K BU	238	2554.0	FSH 2,5	435
2472.0029	SB 5/10 FS U9;V9;W9 WH	348	2484.1	ZB 16/K GNYE	90	2555.0	FSH A 1	435
2472.0030	SB 5/10 FS U10;V10;W10 WH	348	2484.1	ZB 16/K GNYE	238	2556.0	FSH A 2,5	435
2473.0001	SB 5/10 FS U;V;W;N;PE WH	348	2484.5	ZB 16/K BU	90	2557.0	FST 1/2,8	435
2473.0002	SB 5/10 FS R;S;T;N;Earth with circuit WH	348	2484.5	ZB 16/K BU	238	2558.0	FST 1/6,3	435
2473.0003	SB 5/10 FS L1;L2;L3;N;PE WH	348	2485.1	ZB 35/K GNYE	91	2559.0	FST 2,5/6,3	435
2473.0004	SB 5/10 FS L1;L2;L3;N;Earth with circuit WH	348	2485.1	ZB 35/K GNYE	239	2560.0	FST 6/6,3	435
2474.0001	SB 5/10 GW A WH	349	2485.5	ZB 35/K BU	91	2562.0	KBH-S 84 blank YE	389
2474.0002	SB 5/10 GW B WH	349	2485.5	ZB 35/K BU	239	2563.0	TSTW/F/M 6	272
2474.0003	SB 5/10 GW C WH	349	2486.1	ZB 4/6/K GNYE	90	2564.0	TSTW/F/M 5	273
2474.0004	SB 5/10 GW D WH	349	2486.1	ZB 4/6/K GNYE	238	2565.0	KBH-S 84 blank WH	389
2474.0005	SB 5/10 GW E WH	349	2486.5	ZB 4/6/K BU	90	2566.2	TRS 3 BG	316
2474.0006	SB 5/10 GW F WH	349	2486.5	ZB 4/6/K BU	238	2567.0	Q 2	288
2474.0007	SB 5/10 GW G WH	349	2487.1	ZB 16/6/K GNYE	91	2568.0	Q 3	288
2474.0008	SB 5/10 GW H WH	349	2487.1	ZB 16/6/K GNYE	239	2569.0	Q 4	288
2474.0009	SB 5/10 GW I WH	349	2487.5	ZB 16/6/K BU	91	2570.0	Q 10	288
2474.0010	SB 5/10 GW J WH	349	2487.5	ZB 16/6/K BU	239	2571.0	AS 3/10 WH	354
2474.0011	SB 5/10 GW K WH	349	2488.1	K 4 GNYE	90	2571.1	AS 3/10 GN	354
2474.0012	SB 5/10 GW L WH	349	2488.1	K 4 GNYE	238	2571.3	AS 3/10 OG	354
2474.0013	SB 5/10 GW M WH	349	2488.4	K 4 BK	90	2571.5	AS 3/10 BU	354
2474.0014	SB 5/10 GW N WH	349	2488.4	K 4 BK	238	2571.7	AS 3/10 WH	354
2474.0015	SB 5/10 GW O WH	349	2488.5	K 4 BU	90	2571.8	AS 3/10 YE	354
2474.0016	SB 5/10 GW P WH	349	2488.5	K 4 BU	238	2571.9	AS 3/10 RD	354
2474.0017	SB 5/10 GW Q WH	349	2489.1	K 16 GNYE	90	2573.0000	AS 3/10 G 0 WH	354
2474.0018	SB 5/10 GW R WH	349	2489.1	K 16 GNYE	238	2573.0001	AS 3/10 G 1 WH	354
2474.0019	SB 5/10 GW S WH	349	2489.5	K 16 BU	90	2573.0002	AS 3/10 G 2 WH	354
2474.0020	SB 5/10 GW T WH	349	2489.5	K 16 BU	238	2573.0003	AS 3/10 G 3 WH	354
2474.0021	SB 5/10 GW U WH	349	2490.1	K 35 GNYE	239	2573.0004	AS 3/10 G 4 WH	354
2474.0022	SB 5/10 GW V WH	349	2490.5	K 35 BU	239	2573.0005	AS 3/10 G 5 WH	354
2474.0023	SB 5/10 GW W WH	349	2491.1	K 4/6 GNYE	90	2573.0006	AS 3/10 G 6 WH	354
2474.0024	SB 5/10 GW X WH	349	2491.1	K 4/6 GNYE	238	2573.0007	AS 3/10 G 7 WH	354
2474.0025	SB 5/10 GW Y WH	349	2491.5	K 4/6 BU	90	2573.0008	AS 3/10 G 8 WH	354
2474.0026	SB 5/10 GW Z WH	349	2491.5	K 4/6 BU	238	2573.0009	AS 3/10 G 9 WH	354
2474.0027	SB 5/10 GW PE WH	349	2492.1	K 16/6 GNYE	239	2573.0200	AS 3/10 G A WH	354
2474.0028	SB 5/10 GW PEN WH	349	2492.5	K 16/6 BU	239	2573.0201	AS 3/10 G B WH	354
2474.0029	SB 5/10 GW MP WH	349	2493.0	AD 4/24/B/E YE	311	2573.0202	AS 3/10 G C WH	354
2474.0030	SB 5/10 GW SL WH	349	2494.0	AD 4/24/B/E YE	311	2573.0203	AS 3/10 G D WH	354
2474.0031	SB 5/10 GW T1 WH	349	2495.0	AD 4/32/B/E YE	311	2573.0204	AS 3/10 G E WH	354
2474.0032	SB 5/10 GW T2 WH	349	2499.0	AD Q transparent	315	2573.0205	AS 3/10 G F WH	354
2474.0033	SB 5/10 GW T3 WH	349	2499.7	AD Q WH	315	2573.0206	AS 3/10 G G WH	354
2474.0034	SB 5/10 GW + WH	349	2500			2573.0207	AS 3/10 G H WH	354
2474.0035	SB 5/10 GW - WH	349	2500.0	H 50,0/36 OL	428	2573.0208	AS 3/10 G I WH	354
2474.0036	SB 5/10 GW - WH	349	2501.0	SK empty assortment box	433	2573.0209	AS 3/10 G J WH	354
2474.0037	SB 5/10 GW Earth WH	349	2504.0	SchT 7 short joint	276	2573.0210	AS 3/10 G K WH	354
2474.0038	SB 5/10 GW Earth with circuit WH	349	2506.0	STR 1	276	2573.0211	AS 3/10 G L WH	354
2475.0001	SB 5/10 GS A WH	349	2510.0	H 16,0/28-T IV	429	2573.0212	AS 3/10 G M WH	354
2475.0002	SB 5/10 GS B WH	349	2511.0	H 25,0/30-T BK	429	2573.0213	AS 3/10 G N WH	354
2475.0003	SB 5/10 GS C WH	349	2512.0	STB 30,5 BK	317	2573.0214	AS 3/10 G O WH	354
2475.0004	SB 5/10 GS D WH	349	2513.0	STB 30,5 GR	317	2573.0215	AS 3/10 G P WH	354
2475.0005	SB 5/10 GS E WH	349	2514.0	STB 30,5 BU	317	2573.0216	AS 3/10 G Q WH	354
2475.0006	SB 5/10 GS F WH	349	2515.0	STB 30,5 RD	317	2573.0217	AS 3/10 G R WH	354
2475.0007	SB 5/10 GS G WH	349	2516.0	STB 30,5 GN	317	2573.0218	AS 3/10 G S WH	354
2475.0008	SB 5/10 GS H WH	349	2517.0	STB 30,5 YE	317	2573.0219	AS 3/10 G T WH	354

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2573.0221	AS 3/10 G V WH	354	2599.0405	KBH-C 30 Bag print "="	381	2630.0408	KBH 3/3 Print " - "	374
2573.0222	AS 3/10 G W WH	354	2599.0406	KBH-C 30 Bag print "Earth"	381	2630.0419	KBH 3/3 Print "+"	374
2573.0223	AS 3/10 G X WH	354	2599.0407	KBH-C 30 Bag print "Earth with circuit"	381	2630.0420	KBH 3/3 Print "-"	374
2573.0224	AS 3/10 G Y WH	354	2599.0408	KBH-C 30 Bag print " ~ "	381	2631.0100	KBH 3/3 blank BK	374
2573.0225	AS 3/10 G Z WH	354	2599.0419	KBH-C 30 Bag print "+"	381	2631.0101	KBH 3/3 blank BN	374
2573.0407	AS 3/10 G Earth with circuit WH	354	2599.0420	KBH-C 30 Bag print "-"	381	2631.0102	KBH 3/3 blank RD	374
2573.0408	AS 3/10 G - WH	354	2600			2631.0103	KBH 3/3 blank OG	374
2573.0419	AS 3/10 G + WH	354	2606.0	MF/35	237	2631.0104	KBH 3/3 blank YE	374
2573.0420	AS 3/10 G - WH	354	2616.0	SchT 3/AS 3	354	2631.0105	KBH 3/3 blank GN	374
2574.1	AP 2,5-4/R GN	278	2617.0	SchT 4/AS 3	354	2631.0106	KBH 3/3 blank BU	374
2574.2	AP 2,5-4/R BG	278	2618.0	SchT 5/AS 3	354	2631.0107	KBH 3/3 blank VT	374
2574.5	AP 2,5-4/R BU	278	2619.0	SchT 6/AS 3	354	2631.0108	KBH 3/3 blank GR	374
2575.1	AP 2,5/RL GN	278	2620.0	H 0,25/10 LB	428	2631.0109	KBH 3/3 blank WH	374
2575.1	AP 2,5/RL GN	278	2621.0	H 0,25/12 LB	428	2632.0000	KBH 5/3 Print "0"	375
2575.2	AP 2,5/RL BG	278	2622.0	H 0,34/10 CY	428	2632.0001	KBH 5/3 Print "1"	375
2575.5	AP 2,5/RL BU	278	2623.0	H 0,34/12 CY	428	2632.0002	KBH 5/3 Print "2"	375
2576.5	HP 10x3 BU	88	2624.0	KBH-S 21 blank YE	388	2632.0003	KBH 5/3 Print "3"	375
2577.5	HP 6x6 BU	88	2625.0	KBH-S 57 blank YE	388	2632.0004	KBH 5/3 Print "4"	375
2579.0	STR 3	277	2626.0	KBH-S 57 blank WH	388	2632.0005	KBH 5/3 Print "5"	375
2580.0	ESO GT 1	277	2627.0	KBH 3/15 blank YE	378	2632.0006	KBH 5/3 Print "6"	375
2581.0	ESO GT 2	277	2628.0	KBH 3/15 blank WH	378	2632.0007	KBH 5/3 Print "7"	375
2582.0	STR GT 1	277	2629.0	KBH 3/27 blank YE	378	2632.0008	KBH 5/3 Print "8"	375
2583.0	STR GT 2	277	2630.0000	KBH 3/3 Print "0"	374	2632.0009	KBH 5/3 Print "9"	375
2584.0	ESO	276	2630.0001	KBH 3/3 Print "1"	374	2632.0200	KBH 5/3 Print "A"	375
2584.2	RKDG 4 BG	50	2630.0002	KBH 3/3 Print "2"	374	2632.0201	KBH 5/3 Print "B"	375
2584.5	RKDG 4 BU	50	2630.0003	KBH 3/3 Print "3"	374	2632.0202	KBH 5/3 Print "C"	375
2585.0	ESO 3	277	2630.0004	KBH 3/3 Print "4"	374	2632.0203	KBH 5/3 Print "D"	375
2586.2	APG 4 BG	278	2630.0005	KBH 3/3 Print "5"	374	2632.0204	KBH 5/3 Print "E"	375
2586.5	APG 4 BU	278	2630.0006	KBH 3/3 Print "6"	374	2632.0205	KBH 5/3 Print "F"	375
2587.0	QS 20	296	2630.0007	KBH 3/3 Print "7"	374	2632.0206	KBH 5/3 Print "G"	375
2588.0	QS 20	296	2630.0008	KBH 3/3 Print "8"	374	2632.0207	KBH 5/3 Print "H"	375
2590.0	KBH 10/15 blank YE	379	2630.0009	KBH 3/3 Print "9"	374	2632.0208	KBH 5/3 Print "I"	375
2591.0000	KBH-C 10 Bag print "0"	381	2630.0010	KBH 3/3 Print "A"	374	2632.0209	KBH 5/3 Print "J"	375
2591.0001	KBH-C 10 Bag print "1"	381	2630.0201	KBH 3/3 Print "B"	374	2632.0210	KBH 5/3 Print "K"	375
2591.0002	KBH-C 10 Bag print "2"	381	2630.0202	KBH 3/3 Print "C"	374	2632.0211	KBH 5/3 Print "L"	375
2591.0003	KBH-C 10 Bag print "3"	381	2630.0203	KBH 3/3 Print "D"	374	2632.0212	KBH 5/3 Print "M"	375
2591.0004	KBH-C 10 Bag print "4"	381	2630.0204	KBH 3/3 Print "E"	374	2632.0213	KBH 5/3 Print "N"	375
2591.0005	KBH-C 10 Bag print "5"	381	2630.0205	KBH 3/3 Print "F"	374	2632.0214	KBH 5/3 Print "O"	375
2591.0006	KBH-C 10 Bag print "6"	381	2630.0206	KBH 3/3 Print "G"	374	2632.0215	KBH 5/3 Print "P"	375
2591.0007	KBH-C 10 Bag print "7"	381	2630.0207	KBH 3/3 Print "H"	374	2632.0216	KBH 5/3 Print "Q"	375
2591.0008	KBH-C 10 Bag print "8"	381	2630.0208	KBH 3/3 Print "I"	374	2632.0217	KBH 5/3 Print "R"	375
2591.0009	KBH-C 10 Bag print "9"	381	2630.0209	KBH 3/3 Print "J"	374	2632.0218	KBH 5/3 Print "S"	375
2591.0400	KBH-C 10 Bag print "+ RD	381	2630.0210	KBH 3/3 Print "K"	374	2632.0219	KBH 5/3 Print "T"	375
2591.0401	KBH-C 10 Bag print "- BU	381	2630.0211	KBH 3/3 Print "L"	374	2632.0220	KBH 5/3 Print "U"	375
2591.0402	KBH-C 10 Beutel Print "/"	381	2630.0212	KBH 3/3 Print "M"	374	2632.0221	KBH 5/3 Print "V"	375
2591.0403	KBH-C 10 Bag print " "	381	2630.0213	KBH 3/3 Print "N"	374	2632.0222	KBH 5/3 Print "W"	375
2591.0404	KBH-C 10 Bag print " : "	381	2630.0214	KBH 3/3 Print "O"	374	2632.0223	KBH 5/3 Print "X"	375
2591.0405	KBH-C 10 Bag print "="	381	2630.0215	KBH 3/3 Print "P"	374	2632.0224	KBH 5/3 Print "Y"	375
2591.0406	KBH-C 10 Bag print "Earth"	381	2630.0216	KBH 3/3 Print "Q"	374	2632.0225	KBH 5/3 Print "Z"	375
2591.0407	KBH-C 10 Bag print "Earth with circuit"	381	2630.0217	KBH 3/3 Print "R"	374	2632.0300	KBH 5/3 Print "a"	375
2591.0408	KBH-C 10 Bag print " ~ "	381	2630.0218	KBH 3/3 Print "S"	374	2632.0301	KBH 5/3 Print "b"	375
2591.0419	KBH-C 10 Bag print "+"	381	2630.0219	KBH 3/3 Print "T"	374	2632.0302	KBH 5/3 Print "c"	375
2591.0420	KBH-C 10 Bag print "-"	381	2630.0220	KBH 3/3 Print "U"	374	2632.0303	KBH 5/3 Print "d"	375
2592.0	KBH 10/21 blank YE	379	2630.0221	KBH 3/3 Print "V"	374	2632.0304	KBH 5/3 Print "e"	375
2593.0	KBH 10/27 blank YE	380	2630.0222	KBH 3/3 Print "W"	374	2632.0305	KBH 5/3 Print "f"	375
2594.0	KBH 10/36 blank YE	380	2630.0223	KBH 3/3 Print "X"	374	2632.0306	KBH 5/3 Print "g"	375
2595.0000	KBH-C 20 Bag print "0"	381	2630.0224	KBH 3/3 Print "Y"	374	2632.0307	KBH 5/3 Print "h"	375
2595.0001	KBH-C 20 Bag print "1"	381	2630.0225	KBH 3/3 Print "Z"	374	2632.0308	KBH 5/3 Print "i"	375
2595.0002	KBH-C 20 Bag print "2"	381	2630.0300	KBH 3/3 Print "a"	374	2632.0309	KBH 5/3 Print "j"	375
2595.0003	KBH-C 20 Bag print "3"	381	2630.0301	KBH 3/3 Print "b"	374	2632.0310	KBH 5/3 Print "k"	375
2595.0004	KBH-C 20 Bag print "4"	381	2630.0302	KBH 3/3 Print "c"	374	2632.0311	KBH 5/3 Print "l"	375
2595.0005	KBH-C 20 Bag print "5"	381	2630.0303	KBH 3/3 Print "d"	374	2632.0312	KBH 5/3 Print "m"	375
2595.0006	KBH-C 20 Bag print "6"	381	2630.0304	KBH 3/3 Print "e"	374	2632.0313	KBH 5/3 Print "n"	375
2595.0007	KBH-C 20 Bag print "7"	381	2630.0305	KBH 3/3 Print "f"	374	2632.0314	KBH 5/3 Print "o"	375
2595.0008	KBH-C 20 Bag print "8"	381	2630.0306	KBH 3/3 Print "g"	374	2632.0315	KBH 5/3 Print "p"	375
2595.0009	KBH-C 20 Bag print "9"	381	2630.0307	KBH 3/3 Print "h"	374	2632.0316	KBH 5/3 Print "q"	375
2595.0400	KBH-C 20 Bag print "+ RD	381	2630.0308	KBH 3/3 Print "i"	374	2632.0317	KBH 5/3 Print "r"	375
2595.0401	KBH-C 20 Bag print "- BU	381	2630.0309	KBH 3/3 Print "j"	374	2632.0318	KBH 5/3 Print "s"	375
2595.0402	KBH-C 20 Beutel Print "/"	381	2630.0310	KBH 3/3 Print "k"	374	2632.0319	KBH 5/3 Print "t"	375
2595.0403	KBH-C 20 Bag print " "	381	2630.0311	KBH 3/3 Print "l"	374	2632.0320	KBH 5/3 Print "u"	375
2595.0404	KBH-C 20 Bag print " : "	381	2630.0312	KBH 3/3 Print "m"	374	2632.0321	KBH 5/3 Print "v"	375
2595.0405	KBH-C 20 Bag print "="	381	2630.0313	KBH 3/3 Print "n"	374	2632.0322	KBH 5/3 Print "w"	375
2595.0406	KBH-C 20 Bag print "Earth"	381	2630.0314	KBH 3/3 Print "o"	374	2632.0323	KBH 5/3 Print "x"	375
2595.0407	KBH-C 20 Bag print "Earth with circuit"	381	2630.0315	KBH 3/3 Print "p"	374	2632.0324	KBH 5/3 Print "y"	375
2595.0408	KBH-C 20 Bag print " ~ "	381	2630.0316	KBH 3/3 Print "q"	374	2632.0325	KBH 5/3 Print "z"	375
2595.0419	KBH-C 20 Bag print "+"	381	2630.0317	KBH 3/3 Print "r"	374	2632.0400	KBH 5/3 Print "+ RD	375
2595.0420	KBH-C 20 Bag print "-"	381	2630.0318	KBH 3/3 Print "s"	374	2632.0401	KBH 5/3 Print "- BU	375
2599.0000	KBH-C 30 Bag print "0"	381	2630.0319	KBH 3/3 Print "t"	374	2632.0402	KBH 5/3 Print " / "	375
2599.0001	KBH-C 30 Bag print "1"	381	2630.0320	KBH 3/3 Print "u"	374	2632.0403	KBH 5/3 Print " "	375
2599.0002	KBH-C 30 Bag print "2"	381	2630.0321	KBH 3/3 Print "v"	374	2632.0404	KBH 5/3 Print " : "	375
2599.0003	KBH-C 30 Bag print "3"	381	2630.0322	KBH 3/3 Print "w"	374	2632.0405	KBH 5/3 Print " = "	375
2599.0004	KBH-C 30 Bag print "4"	381	2630.0323	KBH 3/3 Print "x"	374	2632.0406	KBH 5/3 Print "Earth"	375
2599.0005	KBH-C 30 Bag print "5"	381	2630.0324	KBH 3/3 Print "y"	374	2632.0407	KBH 5/3 Print "Earth with circuit"	375
2599.0006	KBH-C 30 Bag print "6"	381	2630.0325	KBH 3/3 Print "z"	374	2632.0408	KBH 5/3 Print " ~ "	375
2599.0007	KBH-C 30 Bag print "7"	381	2630.0400	KBH 3/3 Print "+ RD	374	2632.0419	KBH 5/3 Print "+"	375
2599.0008	KBH-C 30 Bag print "8"	381	2630.0401	KBH 3/3 Print "- BU	374	2632.0420	KBH 5/3 Print "-"	375
2599.0009	KBH-C 30 Bag print "9"	381	2630.0402	KBH 3/3 Print " / "	374	2633.0100	KBH 5/3 blank BK	375
2599.0400	KBH-C 30 Bag print "+ RD	381	2630.0403	KBH 3/3 Print " : "	374	2633.0101	KBH 5/3 blank BN	375
2599.0401	KBH-C 30 Bag print "- BU	381	2630.0404	KBH 3/3 Print " ~ "	374	2633.0102	KBH 5/3 blank RD	375
2599.0402	KBH-C 30 Beutel Print "/"	381	2630.0405	KBH 3/3 Print " = "	374	2633.0103	KBH 5/3 blank OG	375
2599.0403	KBH-C 30 Bag print " "	381	2630.0406	KBH 3/3 Print "Earth"	374	2633.0104	KBH 5/3 blank YE	375

Cat. no.	Type	Page	Cat. no.	Type	Page	Cat. no.	Type	Page
2633.0105	KBH 5/3 blank GN	375	2638.0104	KBH 10/4 blank YE	376	2653.0006	MPS Print "6"	391
2633.0106	KBH 5/3 blank BU	375	2638.0105	KBH 10/4 blank GN	376	2653.0007	MPS Print "7"	391
2633.0107	KBH 5/3 blank VT	375	2638.0106	KBH 10/4 blank BU	376	2653.0008	MPS Print "8"	391
2633.0108	KBH 5/3 blank GR	375	2638.0107	KBH 10/4 blank VT	376	2653.0009	MPS Print "9"	391
2633.0109	KBH 5/3 blank WH	375	2638.0108	KBH 10/4 blank GR	376	2653.0200	MPS Print "A"	391
2634.0409	KBH 5/6 Print"L1"	375	2638.0109	KBH 10/4 blank WH	376	2653.0201	MPS Print "B"	391
2634.0410	KBH 5/6 Print"L2"	375	2639.0000	KBH 16/6 Print "O"	377	2653.0202	MPS Print "C"	391
2634.0411	KBH 5/6 Print"L3"	375	2639.0001	KBH 16/6 Print "1"	377	2653.0203	MPS Print "D"	391
2634.0412	KBH 5/6 Print"MP"	375	2639.0002	KBH 16/6 Print "2"	377	2653.0204	MPS Print "E"	391
2634.0413	KBH 5/6 Print"PE"	375	2639.0003	KBH 16/6 Print "3"	377	2653.0205	MPS Print "F"	391
2634.0414	KBH 5/6 Print"X1"	375	2639.0004	KBH 16/6 Print "4"	377	2653.0206	MPS Print "G"	391
2634.0415	KBH 5/6 Print"X2"	375	2639.0005	KBH 16/6 Print "5"	377	2653.0207	MPS Print "H"	391
2634.0416	KBH 5/6 Print"X3"	375	2639.0006	KBH 16/6 Print "6"	377	2653.0208	MPS Print "I"	391
2634.0417	KBH 5/6 Print"A1"	375	2639.0007	KBH 16/6 Print "7"	377	2653.0209	MPS Print "J"	391
2634.0418	KBH 5/6 Print"A2"	375	2639.0008	KBH 16/6 Print "8"	377	2653.0210	MPS Print "K"	391
2637.0000	KBH 10/4 Print "0"	376	2639.0009	KBH 16/6 Print "9"	377	2653.0211	MPS Print "L"	391
2637.0001	KBH 10/4 Print "1"	376	2639.0200	KBH 16/6 Print "A"	377	2653.0212	MPS Print "M"	391
2637.0002	KBH 10/4 Print "2"	376	2639.0201	KBH 16/6 Print "B"	377	2653.0213	MPS Print "N"	391
2637.0003	KBH 10/4 Print "3"	376	2639.0202	KBH 16/6 Print "C"	377	2653.0214	MPS Print "O"	391
2637.0004	KBH 10/4 Print "4"	376	2639.0203	KBH 16/6 Print "D"	377	2653.0215	MPS Print "P"	391
2637.0005	KBH 10/4 Print "5"	376	2639.0204	KBH 16/6 Print "E"	377	2653.0216	MPS Print "Q"	391
2637.0006	KBH 10/4 Print "6"	376	2639.0205	KBH 16/6 Print "F"	377	2653.0217	MPS Print "R"	391
2637.0007	KBH 10/4 Print "7"	376	2639.0206	KBH 16/6 Print "G"	377	2653.0218	MPS Print "S"	391
2637.0008	KBH 10/4 Print "8"	376	2639.0207	KBH 16/6 Print "H"	377	2653.0219	MPS Print "T"	391
2637.0009	KBH 10/4 Print "9"	376	2639.0208	KBH 16/6 Print "I"	377	2653.0220	MPS Print "U"	391
2637.0200	KBH 10/4 Print "A"	376	2639.0209	KBH 16/6 Print "J"	377	2653.0221	MPS Print "V"	391
2637.0201	KBH 10/4 Print "B"	376	2639.0210	KBH 16/6 Print "K"	377	2653.0222	MPS Print "W"	391
2637.0202	KBH 10/4 Print "C"	376	2639.0211	KBH 16/6 Print "L"	377	2653.0223	MPS Print "X"	391
2637.0203	KBH 10/4 Print "D"	376	2639.0212	KBH 16/6 Print "M"	377	2653.0224	MPS Print "Y"	391
2637.0204	KBH 10/4 Print "E"	376	2639.0213	KBH 16/6 Print "N"	377	2653.0225	MPS Print "Z"	391
2637.0205	KBH 10/4 Print "F"	376	2639.0214	KBH 16/6 Print "O"	377	2653.0226	MPS Print "Ä"	391
2637.0206	KBH 10/4 Print "G"	376	2639.0215	KBH 16/6 Print "P"	377	2653.0227	MPS Print "Ö"	391
2637.0207	KBH 10/4 Print "H"	376	2639.0216	KBH 16/6 Print "Q"	377	2653.0228	MPS Print "Ü"	391
2637.0208	KBH 10/4 Print "I"	376	2639.0217	KBH 16/6 Print "R"	377	2653.0229	MPS Print blank Stainless steel marker	391
2637.0209	KBH 10/4 Print "J"	376	2639.0218	KBH 16/6 Print "S"	377	2653.0401	MPS Print ")"	391
2637.0210	KBH 10/4 Print "K"	376	2639.0219	KBH 16/6 Print "T"	377	2653.0402	MPS Print "/"	391
2637.0211	KBH 10/4 Print "L"	376	2639.0220	KBH 16/6 Print "U"	377	2653.0403	MPS Print "."	391
2637.0212	KBH 10/4 Print "M"	376	2639.0221	KBH 16/6 Print "V"	377	2653.0404	MPS Print ":"	391
2637.0213	KBH 10/4 Print "N"	376	2639.0222	KBH 16/6 Print "W"	377	2653.0405	MPS Print "="	391
2637.0214	KBH 10/4 Print "O"	376	2639.0223	KBH 16/6 Print "X"	377	2653.0406	MPS Print earth symbol without circle	391
2637.0215	KBH 10/4 Print "P"	376	2639.0224	KBH 16/6 Print "Y"	377	2653.0408	MPS Print "-"	391
2637.0216	KBH 10/4 Print "Q"	376	2639.0225	KBH 16/6 Print "Z"	377	2653.0409	MPS Print ","	391
2637.0217	KBH 10/4 Print "R"	376	2639.0300	KBH 16/6 Print "a"	377	2653.0410	MPS Print "("	391
2637.0218	KBH 10/4 Print "S"	376	2639.0301	KBH 16/6 Print "b"	377	2653.0419	MPS Print "+"	391
2637.0219	KBH 10/4 Print "T"	376	2639.0302	KBH 16/6 Print "c"	377	2653.0420	MPS Print "-"	391
2637.0220	KBH 10/4 Print "U"	376	2639.0303	KBH 16/6 Print "d"	377	2654.0	KH 70 BK	390
2637.0221	KBH 10/4 Print "V"	376	2639.0304	KBH 16/6 Print "e"	377	2655.0	KH 110 BK	390
2637.0222	KBH 10/4 Print "W"	376	2639.0305	KBH 16/6 Print "f"	377	2656.0	KBH 10/15 blank WH single	379
2637.0223	KBH 10/4 Print "X"	376	2639.0306	KBH 16/6 Print "g"	377	2657.0	KBH 10/21 blank WH single	379
2637.0224	KBH 10/4 Print "Y"	376	2639.0307	KBH 16/6 Print "h"	377	2658.008	MPS 1x1-8 So	392
2637.0225	KBH 10/4 Print "Z"	376	2639.0308	KBH 16/6 Print "i"	377	2658.011	MPS 2x1-11 So	392
2637.0300	KBH 10/4 Print "a"	376	2639.0309	KBH 16/6 Print "j"	377	2658.013	MPS 1x9-13 So	392
2637.0301	KBH 10/4 Print "b"	376	2639.0310	KBH 16/6 Print "k"	377	2658.018	MPS 2x12-18 So	392
2637.0302	KBH 10/4 Print "c"	376	2639.0311	KBH 16/6 Print "l"	377	2658.019	MPS 1x14-19 So	392
2637.0303	KBH 10/4 Print "d"	376	2639.0312	KBH 16/6 Print "m"	377	2658.025	MPS 1x20-25 So	393
2637.0304	KBH 10/4 Print "e"	376	2639.0313	KBH 16/6 Print "n"	377	2658.027	MPS 2x19-27 So	392
2637.0305	KBH 10/4 Print "f"	376	2639.0314	KBH 16/6 Print "o"	377	2658.030	MPS 2x26-30 So	393
2637.0306	KBH 10/4 Print "g"	376	2639.0315	KBH 16/6 Print "p"	377	2658.035	MPS 2x28-35 So	393
2637.0307	KBH 10/4 Print "h"	376	2639.0316	KBH 16/6 Print "q"	377	2658.043	MPS 2x36-43 So	393
2637.0308	KBH 10/4 Print "i"	376	2639.0317	KBH 16/6 Print "r"	377	2659.0	KBH 10/36 blank WH single	380
2637.0309	KBH 10/4 Print "j"	376	2639.0318	KBH 16/6 Print "s"	377	2660.0	SK 12/12	433
2637.0310	KBH 10/4 Print "k"	376	2639.0319	KBH 16/6 Print "t"	377	2661.0	KBH 3/21 blank YE Strip	378
2637.0311	KBH 10/4 Print "l"	376	2639.0320	KBH 16/6 Print "u"	377	2662.0	KBH 3/21 blank WH Strip	378
2637.0312	KBH 10/4 Print "m"	376	2639.0321	KBH 16/6 Print "v"	377	2663.0	KBH 3/27 blank WH Strip	378
2637.0313	KBH 10/4 Print "n"	376	2639.0322	KBH 16/6 Print "w"	377	2664.0	KBH 5/15 blank YE Strip	379
2637.0314	KBH 10/4 Print "o"	376	2639.0323	KBH 16/6 Print "x"	377	2665.0	KBH 5/15 blank WH Strip	379
2637.0315	KBH 10/4 Print "p"	376	2639.0324	KBH 16/6 Print "y"	377	2666.0000	KBH-S 4 Print "0"	390
2637.0316	KBH 10/4 Print "q"	376	2639.0325	KBH 16/6 Print "z"	377	2666.0001	KBH-S 4 Print "1"	390
2637.0317	KBH 10/4 Print "r"	376	2639.0400	KBH 16/6 Print "+" RD	377	2666.0002	KBH-S 4 Print "2"	390
2637.0318	KBH 10/4 Print "s"	376	2639.0401	KBH 16/6 Print "-" BU	377	2666.0003	KBH-S 4 Print "3"	390
2637.0319	KBH 10/4 Print "t"	376	2639.0402	KBH 16/6 Print "/"	377	2666.0004	KBH-S 4 Print "4"	390
2637.0320	KBH 10/4 Print "u"	376	2639.0403	KBH 16/6 Print "."	377	2666.0005	KBH-S 4 Print "5"	390
2637.0321	KBH 10/4 Print "v"	376	2639.0404	KBH 16/6 Print ":"	377	2666.0006	KBH-S 4 Print "6"	390
2637.0322	KBH 10/4 Print "w"	376	2639.0405	KBH 16/6 Print "="	377	2666.0007	KBH-S 4 Print "7"	390
2637.0323	KBH 10/4 Print "x"	376	2639.0406	KBH 16/6 Print "Earth"	377	2666.0008	KBH-S 4 Print "8"	390
2637.0324	KBH 10/4 Print "y"	376	2639.0407	KBH 16/6 Print "Earth with circuit"	377	2666.0009	KBH-S 4 Print "9"	390
2637.0325	KBH 10/4 Print "z"	376	2639.0408	KBH 16/6 Print "~ "	377	2666.0200	KBH-S 4 Print "A"	390
2637.0400	KBH 10/4 Print "+" RD	376	2639.0409	KBH 16/6 Print "L1"	377	2666.0201	KBH-S 4 Print "B"	390
2637.0401	KBH 10/4 Print "-" BU	376	2639.0410	KBH 16/6 Print "L2"	377	2666.0202	KBH-S 4 Print "C"	390
2637.0402	KBH 10/4 Print "/"	376	2639.0411	KBH 16/6 Print "L3"	377	2666.0203	KBH-S 4 Print "D"	390
2637.0403	KBH 10/4 Print "."	376	2639.0412	KBH 16/6 Print "MP"	377	2666.0204	KBH-S 4 Print "E"	390
2637.0404	KBH 10/4 Print ":"	376	2639.0413	KBH 16/6 Print "PE"	377	2666.0205	KBH-S 4 Print "F"	390
2637.0405	KBH 10/4 Print "="	376	2639.0414	KBH 16/6 Print "X1"	377	2666.0206	KBH-S 4 Print "G"	390
2637.0406	KBH 10/4 Print "Earth"	376	2639.0415	KBH 16/6 Print "X2"	377	2666.0207	KBH-S 4 Print "H"	390
2637.0407	KBH 10/4 Print "Earth with circuit"	376	2639.0419	KBH 16/6 Print "+"	377	2666.0208	KBH-S 4 Print "I"	390
2637.0408	KBH 10/4 Print "~ "	376	2639.0420	KBH 16/6 Print "+"	377	2666.0209	KBH-S 4 Print "J"	390
2637.0419	KBH 10/4 Print "+"	376	2653.0000	MPS Print "0"	391	2666.0210	KBH-S 4 Print "K"	390
2637.0420	KBH 10/4 Print "-"	376	2653.0001	MPS Print "1"	391	2666.0211	KBH-S 4 Print "L"	390
2638.0100	KBH 10/4 blank BK	376	2653.0002	MPS Print "2"	391	2666.0212	KBH-S 4 Print "M"	390
2638.0101	KBH 10/4 blank BN	376	2653.0003	MPS Print "3"	391	2666.0213	KBH-S 4 Print "N"	390
2638.0102	KBH 10/4 blank RD	376	2653.0004	MPS Print "4"	391	2666.0214	KBH-S 4 Print "O"	390
2638.0103	KBH 10/4 blank OG	376	2653.0005	MPS Print "5"	391	2666.0215	KBH-S 4 Print "P"	390

Cat. no.	Type	Page	Cat. no.	Type	Page	Cat. no.	Type	Page
2666.0216	KBH-S 4 Print "Q"	390	2681.0417	KBH 5/6 Print "A1"	375	2695.0412	KBH 10/6 Print "MP"	376
2666.0217	KBH-S 4 Print "R"	390	2681.0418	KBH 5/6 Print "A2"	375	2695.0413	KBH 10/6 Print "PE"	376
2666.0218	KBH-S 4 Print "S"	390	2684.0	KBH 5/27 blank YE Strip	379	2695.0414	KBH 10/6 Print "X1"	376
2666.0219	KBH-S 4 Print "T"	390	2685.0	KBH 5/27 blank WH Strip	379	2695.0415	KBH 10/6 Print "X2"	376
2666.0220	KBH-S 4 Print "U"	390	2686.0	MPS Assortment box of number and symbols	391	2695.0416	KBH 10/6 Print "X3"	376
2666.0221	KBH-S 4 Print "V"	390	2687.0	MPS Assortment box of letters	391	2695.0417	KBH 10/6 Print "A1"	376
2666.0222	KBH-S 4 Print "W"	390	2690.0000	KBH-S 4 Print "0"	390	2695.0418	KBH 10/6 Print "A2"	376
2666.0223	KBH-S 4 Print "X"	390	2690.0001	KBH-S 4 Print "1"	390	2698.2	AP 2,5/1 BG	278
2666.0224	KBH-S 4 Print "Y"	390	2690.0002	KBH-S 4 Print "2"	390	2698.3	AP 2,5/1 OG	278
2666.0225	KBH-S 4 Print "Z"	390	2690.0003	KBH-S 4 Print "3"	390	2698.5	AP 2,5/1 BU	278
2666.0300	KBH-S 4 Print "a"	390	2690.0004	KBH-S 4 Print "4"	390	2699.2	AP 2,5/ID BG	278
2666.0301	KBH-S 4 Print "b"	390	2690.0005	KBH-S 4 Print "5"	390	2699.3	AP 2,5/ID OG	278
2666.0302	KBH-S 4 Print "c"	390	2690.0006	KBH-S 4 Print "6"	390	2699.5	AP 2,5/ID BU	278
2666.0303	KBH-S 4 Print "d"	390	2690.0007	KBH-S 4 Print "7"	390	2700		
2666.0304	KBH-S 4 Print "e"	390	2690.0008	KBH-S 4 Print "8"	390	2700.0	Q 20	288
2666.0305	KBH-S 4 Print "f"	390	2690.0009	KBH-S 4 Print "9"	390	2703.2	EA 1 BG	310
2666.0306	KBH-S 4 Print "g"	390	2690.0020	KBH-S 4 Print "A"	390	2703.7	EA 1 WH	310
2666.0307	KBH-S 4 Print "h"	390	2690.0201	KBH-S 4 Print "B"	390	2703.8	EA 1 YE	310
2666.0308	KBH-S 4 Print "i"	390	2690.0202	KBH-S 4 Print "C"	390	2704.0	TS 35x7,5	269
2666.0309	KBH-S 4 Print "j"	390	2690.0203	KBH-S 4 Print "D"	390	2710.0	TS 35x7,5 ALU	269
2666.0310	KBH-S 4 Print "k"	390	2690.0204	KBH-S 4 Print "E"	390	2711.0	TS 15 ALU unslotted	272
2666.0311	KBH-S 4 Print "l"	390	2690.0205	KBH-S 4 Print "F"	390	2712.0	AD 4/20/B YE	311
2666.0312	KBH-S 4 Print "m"	390	2690.0206	KBH-S 4 Print "G"	390	2713.0	AD 4/20/B/E YE	311
2666.0313	KBH-S 4 Print "n"	390	2690.0207	KBH-S 4 Print "H"	390	2714.2	AP IKD 2,5/short size	278
2666.0314	KBH-S 4 Print "o"	390	2690.0208	KBH-S 4 Print "I"	390	2715.2	DLIS 2,5 B-3L/3N/3PE BG	86
2666.0315	KBH-S 4 Print "p"	390	2690.0209	KBH-S 4 Print "J"	390	2716.2	DLIS 2,5 B-3L/N/PE BG	87
2666.0316	KBH-S 4 Print "q"	390	2690.0210	KBH-S 4 Print "K"	390	2717.2	DLIS 2,5 B-6L BG	87
2666.0317	KBH-S 4 Print "r"	390	2690.0211	KBH-S 4 Print "L"	390	2718.2	DLIS 2,5 B-6L/3PE BG	87
2666.0318	KBH-S 4 Print "s"	390	2690.0212	KBH-S 4 Print "M"	390	2719.2	RK 35/35/N/Z/IS BG	37
2666.0319	KBH-S 4 Print "t"	390	2690.0213	KBH-S 4 Print "N"	390	2719.5	RK 35/35/N/Z/IS BU	37
2666.0320	KBH-S 4 Print "u"	390	2690.0214	KBH-S 4 Print "O"	390	2736.0	TST/M 5	273
2666.0321	KBH-S 4 Print "v"	390	2690.0215	KBH-S 4 Print "P"	390	2737.0	TST/M 6	273
2666.0322	KBH-S 4 Print "w"	390	2690.0216	KBH-S 4 Print "Q"	390	2738.1	AP 1,5-4 GN	278
2666.0323	KBH-S 4 Print "x"	390	2690.0217	KBH-S 4 Print "R"	390	2738.2	AP 1,5-4 BG	278
2666.0324	KBH-S 4 Print "y"	390	2690.0218	KBH-S 4 Print "S"	390	2738.3	AP 1,5-4 OG	278
2666.0325	KBH-S 4 Print "z"	390	2690.0219	KBH-S 4 Print "T"	390	2738.5	AP 1,5-4 BU	278
2666.0400	KBH-S 4 Print "+ RD	390	2690.0220	KBH-S 4 Print "U"	390	2738.8	AP 1,5-4 YE	278
2666.0401	KBH-S 4 Print "- BU	390	2690.0221	KBH-S 4 Print "V"	390	2738.9	AP 1,5-4 RD	278
2666.0402	KBH-S 4 Print " / "	390	2690.0222	KBH-S 4 Print "W"	390	2740.2	QI 2 YE	289
2666.0403	KBH-S 4 Print " . "	390	2690.0223	KBH-S 4 Print "X"	390	2741.2	QI 3 YE	289
2666.0404	KBH-S 4 Print " : "	390	2690.0224	KBH-S 4 Print "Y"	390	2742.2	QI 4 YE	289
2666.0405	KBH-S 4 Print " = "	390	2690.0225	KBH-S 4 Print "Z"	390	2743.2	QI 10 YE	289
2666.0406	KBH-S 4 Print "Earth"	390	2690.0300	KBH-S 4 Print "a"	390	2746.2	QI 40 YE	289
2666.0407	KBH-S 4 Print "Earth with circuit"	390	2690.0301	KBH-S 4 Print "b"	390	2747.4	RK 16/35/N PA-G BK	208
2666.0408	KBH-S 4 Print " ~ "	390	2690.0302	KBH-S 4 Print "c"	390	2748.4	RK 35/35/N PA-G BK	209
2666.0419	KBH-S 4 Print "+"	390	2690.0303	KBH-S 4 Print "d"	390	2750.2	QI 2 YE	289
2666.0420	KBH-S 4 Print "-"	390	2690.0304	KBH-S 4 Print "e"	390	2751.2	QI 3 YE	289
2669.0104	KBS-25 blank yellow	389	2690.0305	KBH-S 4 Print "f"	390	2752.2	QI 4 YE	289
2669.0109	KBS-25 blank white	389	2690.0306	KBH-S 4 Print "g"	390	2753.2	QI 10 YE	289
2670.0104	KBS-40 blank yellow	389	2690.0307	KBH-S 4 Print "h"	390	2760.0	HES 32/ST BG	275
2670.0109	KBS-40 blank white	389	2690.0308	KBH-S 4 Print "i"	390	2761.0	HES 35/ST BG	275
2671.0100	KBH-S 4 blank BK	390	2690.0309	KBH-S 4 Print "j"	390	2762.2	AP 10 BG	278
2671.0101	KBH-S 4 blank BN	390	2690.0310	KBH-S 4 Print "k"	390	2762.3	AP 10 OG	278
2671.0102	KBH-S 4 blank RD	390	2690.0311	KBH-S 4 Print "l"	390	2762.5	AP 10 BU	278
2671.0103	KBH-S 4 blank OG	390	2690.0312	KBH-S 4 Print "m"	390	2763.2	AQI 2/50 YE	293
2671.0104	KBH-S 4 blank YE	390	2690.0313	KBH-S 4 Print "n"	390	2764.2	AQI 3/50 YE	293
2671.0105	KBH-S 4 blank GN	390	2690.0314	KBH-S 4 Print "o"	390	2765.2	AQI 2/95 YE	294
2671.0106	KBH-S 4 blank BU	390	2690.0315	KBH-S 4 Print "p"	390	2766.2	AQI 3/95 YE	294
2671.0107	KBH-S 4 blank VT/WH	390	2690.0316	KBH-S 4 Print "q"	390	2767.2	AQI 2/150 YE	294
2671.0108	KBH-S 4 blank GR	390	2690.0317	KBH-S 4 Print "r"	390	2768.2	AQI 3/150 YE	294
2671.0109	KBH-S 4 blank WH	390	2690.0318	KBH-S 4 Print "s"	390	2769.2	AQI 2/240 YE	294
2672.0	KB 140 BK	390	2690.0319	KBH-S 4 Print "t"	390	2770.2	AQI 3/240 YE	294
2673.0	KBH 5/21 blank YE Strip	379	2690.0320	KBH-S 4 Print "u"	390	2772.0	ISKS 6	422
2674.0	KBH 5/21 blank WH Strip	379	2690.0321	KBH-S 4 Print "v"	390	2773.0	ISKS 8	422
2675.0409	KBH 3/6 Print "L1"	374	2690.0322	KBH-S 4 Print "w"	390	2775.0	HZL/0,75-D GR	431
2675.0410	KBH 3/6 Print "L2"	374	2690.0323	KBH-S 4 Print "x"	390	2776.0	HZL/1,0-D RD	431
2675.0411	KBH 3/6 Print "L3"	374	2690.0324	KBH-S 4 Print "y"	390	2777.0	HZL/1,5-D BK	431
2675.0412	KBH 3/6 Print "MP"	374	2690.0325	KBH-S 4 Print "z"	390	2778.0	HZL/2,5-D BU	431
2675.0413	KBH 3/6 Print "PE"	374	2690.0400	KBH-S 4 Print "+ RD	390	2782.2	AP L/Q/D BG	278
2675.0414	KBH 3/6 Print "X1"	374	2690.0401	KBH-S 4 Print "- BU	390	2783.0	QSB 2	327
2675.0415	KBH 3/6 Print "X2"	374	2690.0402	KBH-S 4 Print " / "	390	2784.0	QSB 3	327
2675.0416	KBH 3/6 Print "X3"	374	2690.0403	KBH-S 4 Print " . "	390	2785.0	QSB 4	327
2675.0417	KBH 3/6 Print "A1"	374	2690.0404	KBH-S 4 Print " : "	390	2786.0	H 70,0/37 YE	428
2675.0418	KBH 3/6 Print "A2"	374	2690.0405	KBH-S 4 Print " = "	390	2787.0	H 95,0/44 RD	428
2678.0409	KBH 3/6 Print "L1"	374	2690.0406	KBH-S 4 Print "Earth"	390	2788.0	H 120,0/50 BU	428
2678.0410	KBH 3/6 Print "L2"	374	2690.0407	KBH-S 4 Print "Earth with circuit"	390	2789.0	H 150,0/54 YE	428
2678.0411	KBH 3/6 Print "L3"	374	2690.0408	KBH-S 4 Print " ~ "	390	2790.0	H 70,0/25	432
2678.0412	KBH 3/6 Print "MP"	374	2690.0419	KBH-S 4 Print "+"	390	2791.0	H 95,0/32	432
2678.0413	KBH 3/6 Print "PE"	374	2690.0420	KBH-S 4 Print "-"	390	2792.0	H 120,0/32	432
2678.0414	KBH 3/6 Print "X1"	374	2691.0100	KBH-S 4 blank BK	390	2793.0	H 150,0/32	432
2678.0415	KBH 3/6 Print "X2"	374	2691.0101	KBH-S 4 blank BN	390	2794.0	HZL/0,5-D WH	431
2678.0416	KBH 3/6 Print "X3"	374	2691.0102	KBH-S 4 blank RD	390	2795.0	HZL/0,75 HL-D GR	431
2678.0417	KBH 3/6 Print "A1"	374	2691.0103	KBH-S 4 blank OG	390	2796.0	HZL/1,0 HL-D RD	431
2678.0418	KBH 3/6 Print "A2"	374	2691.0104	KBH-S 4 blank YE	390	2797.0	KH 63 f. SIK 10/Z	75
2681.0409	KBH 5/6 Print "L1"	375	2691.0105	KBH-S 4 blank GN	390	2797.0	HZL/1,5 HL-D BK	431
2681.0410	KBH 5/6 Print "L2"	375	2691.0106	KBH-S 4 blank BU	390	2798.0	HZL/2,5 HL-D BU	431
2681.0411	KBH 5/6 Print "L3"	375	2691.0107	KBH-S 4 blank VT	390	2799.0	HZL/4,0-D GR	431
2681.0412	KBH 5/6 Print "MP"	375	2691.0108	KBH-S 4 blank GR	390	2800		
2681.0413	KBH 5/6 Print "PE"	375	2691.0109	KBH-S 4 blank WH	390	2800.0	HZL/6,0-D YE	431
2681.0414	KBH 5/6 Print "X1"	375	2695.0409	KBH 10/6 Print "L1"	376	2801.0	HZL/10,0-D RD	431
2681.0415	KBH 5/6 Print "X2"	375	2695.0410	KBH 10/6 Print "L2"	376	2802.0	HZL/16,0-D BU	431
2681.0416	KBH 5/6 Print "X3"	375	2695.0411	KBH 10/6 Print "L3"	376	2803.2	EA 1/B BG	310

Cat. no.	Type	Page	Cat. no.	Type	Page	Cat. no.	Type	Page
2803.7	EA 1/B WH	310	2899.0	SI 5x20 0,200A-F	324	2989.0028	SB 6/10 FW U8;V8;W8 WH	350
2803.8	EA 1/B YE	310	2900			2989.0029	SB 6/10 FW U9;V9;W9 WH	350
2804.0	AD 1/95/B YE	311	2900.0	SI 5x20 0,250A-F	324	2989.0030	SB 6/10 FW U10;V10;W10 WH	350
2806.0	AD 1/150/B YE	311	2901.0	SI 5x20 0,315A-F	324	2990.0001	SB 6/10 FS X1;Y1;Z1 WH	350
2808.0	AD 1/240/B YE	311	2902.0	SI 5x20 0,400A-F	324	2990.0002	SB 6/10 FS X2;Y2;Z2 WH	350
2810.0	AD 1/50/B YE	311	2903.0	SI 5x20 0,500A-F	324	2990.0003	SB 6/10 FS X3;Y3;Z3 WH	350
2811.0	TA 5/1N/Q	318	2904.0	SI 5x20 0,630A-F	324	2990.0004	SB 6/10 FS X4;Y4;Z4 WH	350
2812.0	TA 5/1/ST	318	2905.0	SI 5x20 0,800A-F	324	2990.0005	SB 6/10 FS X5;Y5;Z5 WH	350
2813.0	TA 6/1/ST	319	2906.0	SI 5x20 1,250A-F	324	2990.0006	SB 6/10 FS X6;Y6;Z6 WH	350
2814.0	H 1,5/18 RD	428	2907.0	SI 5x20 1,600A-F	324	2990.0007	SB 6/10 FS X7;Y7;Z7 WH	350
2816.0	H 50,0/32	432	2908.0	SI 5x20 2,500A-F	324	2990.0008	SB 6/10 FS X8;Y8;Z8 WH	350
2817.0	TA 8/1/ST	319	2909.0	SI 5x20 3,150A-F	324	2990.0009	SB 6/10 FS X9;Y9;Z9 WH	350
2818.0	ISKS 5	422	2910.0	SI 5x20 8,000A-F	324	2990.0010	SB 6/10 FS X10;Y10;Z10 WH	350
2819.0	AD 1/12/B YE	311	2911.0	SI 5x20 10,000A-F	324	2990.0011	SB 6/10 FS R1;S1;T1 WH	350
2820.0	AD 1/16/B YE	311	2912.0	SI 5x20 0,032A-T	324	2990.0012	SB 6/10 FS R2;S2;T2 WH	350
2821.0	TAD 5/1/S	318	2913.0	SI 5x20 0,040A-T	324	2990.0013	SB 6/10 FS R3;S3;T3 WH	350
2822.0	TAD 6/1/S	318	2914.0	SI 5x20 0,050A-T	324	2990.0014	SB 6/10 FS R4;S4;T4 WH	350
2823.0	TA 5/1/Q	318	2915.0	SI 5x20 0,063A-T	324	2990.0015	SB 6/10 FS R5;S5;T5 WH	350
2824.0	TA 6/1/Q	319	2916.0	SI 5x20 0,080A-T	324	2990.0016	SB 6/10 FS R6;S6;T6 WH	350
2825.2	ES 32/2/K BG	274	2917.0	SI 5x20 0,100A-T	324	2990.0017	SB 6/10 FS R7;S7;T7 WH	350
2826.2	ES 35/2/K BG	274	2918.0	SI 5x20 0,125A-T	324	2990.0018	SB 6/10 FS R8;S8;T8 WH	350
2827.0	ES 32/K/ST BG	274	2919.0	SI 5x20 0,160A-T	324	2990.0019	SB 6/10 FS R9;S9;T9 WH	350
2828.0	ES 35/K/ST BG	274	2920.0	SI 5x20 0,200A-T	324	2990.0020	SB 6/10 FS R10;S10;T10 WH	350
2829.2	AP 2,5/S BG	278	2921.0	SI 5x20 0,250A-T	324	2990.0021	SB 6/10 FS U1;V1;W1 WH	350
2831.2	AP 2,5/D BG	278	2922.0	SI 5x20 0,315A-T	324	2990.0022	SB 6/10 FS U2;V2;W2 WH	350
2832.0	Q 2	288	2923.0	SI 5x20 0,400A-T	324	2990.0023	SB 6/10 FS U3;V3;W3 WH	350
2833.0	Q 3	288	2924.0	SI 5x20 0,500A-T	324	2990.0024	SB 6/10 FS U4;V4;W4 WH	350
2834.0	Q 4	288	2925.0	SI 5x20 0,630A-T	324	2990.0025	SB 6/10 FS U5;V5;W5 WH	350
2835.0	Q 10	288	2926.0	SI 5x20 0,800A-T	324	2990.0026	SB 6/10 FS U6;V6;W6 WH	350
2836.0	Q 20	288	2927.0	SI 5x20 1,000A-T	324	2990.0027	SB 6/10 FS U7;V7;W7 WH	350
2837.0	TA 8/1/Q	319	2928.0	SI 5x20 1,250A-T	324	2990.0028	SB 6/10 FS U8;V8;W8 WH	350
2840.0	H 1,0/18-D RD	429	2929.0	SI 5x20 1,600A-T	324	2990.0029	SB 6/10 FS U9;V9;W9 WH	350
2841.0	H 1,5/14-D BK	429	2930.0	SI 5x20 2,000A-T	324	2990.0030	SB 6/10 FS U10;V10;W10 WH	350
2842.0	H 1,5/16-D BK	429	2931.0	SI 5x20 2,500A-T	324	2993.0	HZL 0,5 HL-D WH	431
2843.0	H 1,5/18-D BK	429	2932.0	SI 5x20 3,150A-T	324	2994.0	HZL 0,5 L-D WH	431
2844.0	H 1,5/24-D BK	429	2933.0	SI 5x20 4,000A-T	324	2995.0	HZL 0,75 L-D GR	431
2845.0	H 2,5/14-D BU	429	2934.0	SI 5x20 5,000A-T	324	2996.0	HZL 1,0 L-D RD	431
2845.0	H 2,5/14-D BU	429	2935.0	SI 5x20 6,300A-T	324	2997.0	HZL 1,5 L-D BK	431
2846.0	H 2,5/18-D BU	429	2936.0	SI 5x20 8,000A-T	324	2998.0	HZL 2,5 L-D BU	431
2846.0	H 2,5/18-D BU	429	2937.0	SI 5x20 10,000A-T	324	2999.0	HZL 4,0 L-D GR	431
2847.0	H 2,5/24-D BU	429	2939.2	EH 3 BG	275	3000		
2847.0	H 2,5/24-D BU	429	2940.0	SB 8/8 WH	352	3000.0	HZL 6,0 L-D YE	431
2848.0	H 4,0/18-D GR	429	2941.7	SB 8/8 So WH	352	3001.0	HZL 10,0 L-D RD	431
2848.0	H 4,0/18-D GR	429	2945.2	EH 15 BG	275	3002.0	HZL 16,0 L-D BU	431
2849.0	H 4,0/20-D GR	429	2946.2	EH 35 BG	275	3003.0	HZL 0,5 OG	430
2849.0	H 4,0/20-D GR	429	2952.0	AD 1/5/B YE	310	3004.0	HZL 0,5 HL OG	430
2850.0	H 4,0/26-D GR	429	2953.0	AD 1/6/B YE	310	3005.0	HZL 0,5 L OG	430
2850.0	H 4,0/26-D GR	429	2954.0	AD 1/8/B YE	311	3006.0	HZL 0,75 WH	430
2851.0	H 6,0/20-D YE	429	2955.0	AD 1/12/N/B YE	311	3007.0	HZL 0,75 HL WH	430
2852.0	H 6,0/26-D YE	429	2956.0	AD 1/16/N/B YE	311	3008.0	HZL 0,75 L WH	430
2853.0	H 10,0/22-D RD	429	2957.2	TWMF BG	316	3009.0	HZL 1,0 YE	430
2854.0	H 10,0/28-D RD	429	2957.3	TWMF OG	316	3010.0	HZL 1,0 HL YE	430
2855.0	H 16,0/24-D BU	429	2957.5	TWMF BU	316	3011.0	HZL 1,0 L YE	430
2856.0	H 16,0/28-D BU	429	2958.2	AD 3/1000 mm transparent	316	3012.0	HZL 1,5 RD	430
2857.0	H 25,0/30-D YE	429	2960.0	BK 1-12/5,08	102	3013.0	HZL 1,5 HL RD	430
2858.0	H 25,0/36-D YE	429	2961.0	BK 1-24/5,08	102	3014.0	HZL 1,5 L RD	430
2859.0	H 35,0/30-D RD	429	2962.0	AD 1/5 WH	310	3020.0	HZL 6,0 BK	430
2860.0	H 35,0/39-D RD	429	2963.0	AD 1/5/N WH	310	3021.0	HZL 6,0 L BK	430
2861.0	H 50,0/36-D BU	429	2964.0	AD 1/5/N/B YE	310	3022.0	HZL 10,0 IV	430
2862.2	AP VMAK 2,5 BG	278	2965.0	AD 1/6 WH	310	3023.0	HZL 10,0 L IV	430
2862.3	AP VMAK 2,5 OG	278	2966.0	AD 1/8 WH	311	3024.0	HZL 16,0 GN	430
2862.5	AP VMAK 2,5 BU	278	2967.0	AD 1/12/N WH	311	3025.0	HZL 16,0 L GN	430
2863.0	H 0,5/12-D WH	429	2968.0	AD 1/16/N WH	311	3029.0	HZL 0,75-T LB	431
2864.0	H 0,5/14-D WH	429	2969.0	AD 1/12 WH	311	3030.0	HZL 0,75 HL-T LB	431
2865.0	H 0,5/16-D WH	429	2970.0	AD 1/16 WH	311	3031.0	HZL 0,75 L-T LB	431
2866.0	H 0,75/12-D GR	429	2989.0001	SB 6/10 FW X1;Y1;Z1 WH	350	3038.0	HZL 2,5-T GR	431
2867.0	H 0,75/14-D GR	429	2989.0002	SB 6/10 FW X2;Y2;Z2 WH	350	3039.0	HZL 2,5 HL-T GR	431
2868.0	H 0,75/16-D GR	429	2989.0003	SB 6/10 FW X3;Y3;Z3 WH	350	3040.0	HZL 2,5 L-T GR	431
2869.0	H 0,75/18-D GR	429	2989.0004	SB 6/10 FW X4;Y4;Z4 WH	350	3041.0	HZL 4,0-T OG	431
2870.0	H 1,0/12-D RD	429	2989.0005	SB 6/10 FW X5;Y5;Z5 WH	350	3042.0	HZL 4,0 L-T OG	431
2871.0	H 1,0/14-D RD	429	2989.0006	SB 6/10 FW X6;Y6;Z6 WH	350	3043.0	HZL 6,0-T GN	431
2872.0	H 1,0/16-D RD	429	2989.0007	SB 6/10 FW X7;Y7;Z7 WH	350	3044.0	HZL 6,0 L-T GN	431
2873.3	VBS 2/10 OG	316	2989.0008	SB 6/10 FW X8;Y8;Z8 WH	350	3045.0	HZL 10,0-T BN	431
2874.3	VBS 3/10 OG	316	2989.0009	SB 6/10 FW X9;Y9;Z9 WH	350	3046.0	HZL 10,0 L-T BN	431
2875.3	VBS 2/10/Z OG	316	2989.0010	SB 6/10 FW X10;Y10;Z10 WH	350	3047.0	HZL 16,0-T WH	431
2876.3	VBS 3/10/Z OG	316	2989.0011	SB 6/10 FW R1;S1;T1 WH	350	3048.0	HZL 16,0 L-T WH	431
2877.0	ESO 2	277	2989.0012	SB 6/10 FW R2;S2;T2 WH	350	3052.0	KS 45 eco	419
2878.0	STR 2	277	2989.0013	SB 6/10 FW R3;S3;T3 WH	350	3053.0	KS 35 eco	419
2884.0	Wire-end ferrules box 0,5 -2,5 mmÇ	433	2989.0014	SB 6/10 FW R4;S4;T4 WH	350	3055.0	PZU 6/S	424
2885.0	Wire-end ferrules box 4-16 mmÇ	433	2989.0015	SB 6/10 FW R5;S5;T5 WH	350	3056.0	PZU 16 eco	424
2886.0	KSS 2-8	327	2989.0016	SB 6/10 FW R6;S6;T6 WH	350	3057.0	PZU 25	424
2887.0	Wire-end ferrule empty box	433	2989.0017	SB 6/10 FW R7;S7;T7 WH	350	3058.0	PZN 10 eco	425
2888.0	SchT 2	277	2989.0018	SB 6/10 FW R8;S8;T8 WH	350	3059.0	PZI 6 eco	425
2890.5	HP DLIS BU	83	2989.0019	SB 6/10 FW R9;S9;T9 WH	350	3060.0	PZ RG eco	425
2891.0	SI 5x20 0,032A-F	324	2989.0020	SB 6/10 FW R10;S10;T10 WH	350	3064.0	QKS G 1	434
2892.0	SI 5x20 0,040A-F	324	2989.0021	SB 6/10 FW U1;V1;W1 WH	350	3065.0	QKS G 1	434
2893.0	SI 5x20 0,050A-F	324	2989.0022	SB 6/10 FW U2;V2;W2 WH	350	3066.0	QKS G 1	434
2894.0	SI 5x20 0,063A-F	324	2989.0023	SB 6/10 FW U3;V3;W3 WH	350	3067.0	QKS G 2,5	434
2895.0	SI 5x20 0,080A-F	324	2989.0024	SB 6/10 FW U4;V4;W4 WH	350	3068.0	QKS G 2,5	434
2896.0	SI 5x20 0,100A-F	324	2989.0025	SB 6/10 FW U5;V5;W5 WH	350	3069.0	QKS G 2,5	434
2897.0	SI 5x20 0,125A-F	324	2989.0026	SB 6/10 FW U6;V6;W6 WH	350	3070.0	QKS G 6	434
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3073.0	QKS G 6	434	3201.1	FRK 1,5/3A GN	110	3256.2	FRKD 2,5/D5 BG	121
3074.0	STV 1	434	3201.2	FRK 1,5/3A BG	110	3257.2	FTRK 2,5/2A/OT BG	125
3075.0	STV 2,5	434	3201.3	FRK 1,5/3A OG	110	3257.2	FTRK 2,5/2A/OT BG	127
3076.0	STV 6	434	3201.5	FRK 1,5/3A BU	110	3257.3	FTRK 2,5/2A/OT OG	125
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3078.0	H 0,75/14 AWG WH	430	3201.9	FRK 1,5/3A RD	110	3257.5	FTRK 2,5/2A/OT BU	127
3079.0	H 1,0/14 AWG YE	430	3202.1	FRK 1,5/4A GN	111	3258.2	FTRK 2,5/3A/OT BG	125
3080.0	H 1,5/14 AWG RD	430	3202.2	FRK 1,5/4A BG	111	3258.2	FTRK 2,5/3A/OT BG	127
3081.0	H 2,5/14-D SR BU	431	3202.3	FRK 1,5/4A OG	111	3258.3	FTRK 2,5/3A/OT OG	125
3082.0	H 1,5/17,5 KS BK	430	3202.5	FRK 1,5/4A BU	111	3258.5	FTRK 2,5/3A/OT BU	125
3083.0	H 1,5/19,5 KS BK	430	3202.8	FRK 1,5/4A YE	111	3258.5	FTRK 2,5/3A/OT BU	127
3084.0	H 2,5/17,5 KS BU	430	3202.9	FRK 1,5/4A RD	111	3259.2	FTRK 2,5/2A/MT BG	124
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3092.0	H 1,0/14-D AWG RD	431	3210.8	FRK 2,5/2A YE	112	3262.2	FTRK 2,5/3A/ST BG	125
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3094.0	H 0,75/14-T AWG LB	431	3211.1	FRK 2,5/3A GN	112	3263.2	FTRK 2,5/2A/ZS BG	126
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3102.0	H 4,0/15	432	3212.5	FRK 2,5/4A BU	113	3270.2	FTRK 2,5/3A/ZS 70 BG	127
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3125.0	H 0,34/10-T GN	429	3222.9	FRK 4/4A RD	115	3303.9	MC KMS 10/23 RD	384
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3316.5	MC ESS 12/64 BU	368	3354.7	MC ESS 30/60 WH	369	3394.8	MC GSU 60x15 R YE	401
3316.7	MC ESS 12/64 WH	368	3354.8	MC ESS 30/60 YE	369	3395.7	MC GSU 60x15 K WH	401
3316.8	MC ESS 12/64 YE	368	3354.9	MC ESS 30/60 RD	369	3395.8	MC GSU 60x15 K YE	401
3316.9	MC ESS 12/64 RD	368	3355.7	MC MM 5x10/120 WH	362	3396.7	MC GSU 60x15 R So WH	401
3317.1	MC ESS 15/80 GN	368	3356.7	MC MM 6x10/120 WH	362	3396.8	MC GSU 60x15 R So YE	401
3317.3	MC ESS 15/80 OG	368	3357.7	MC MM 5x10/120 So WH	362	3397.7	MC GSU 60x15 K So WH	401
3317.5	MC ESS 15/80 BU	368	3358.7	MC MM 6x10/120 So WH	362	3397.8	MC GSU 60x15 K So YE	401
3317.7	MC ESS 15/80 WH	368	3359.1	MC ESS 30/60 So GN	369	3398.7	MC GSU 45x15 K WH	400
3317.8	MC ESS 15/80 YE	368	3359.3	MC ESS 30/60 So OG	369	3398.8	MC GSU 45x15 K YE	400
3317.9	MC ESS 15/80 RD	368	3359.5	MC ESS 30/60 So BU	369	3399.7	MC GSU 45x15 K So WH	400
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3326.9	MC SB 7,5/160 RD	357	3364.8	MC ESS 12/64 So YE	368	3411.5	FAP 2,5/3A BU	279
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3328.7	MC SB 8/160 WH	357	3365.7	MC ESS 15/80 So WH	368	3412.3	FAP 2,5/4A OG	279
3328.8	MC SB 8/160 YE	357	3365.8	MC ESS 15/80 So YE	368	3412.5	FAP 2,5/4A BU	279
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3626.2	ZTRK 2,5/4A/ZS BG	167	3728.8	ZQI 4/10 YE	308	3794.1	ZAP SR 3A/15 GN	280
3626.5	ZTRK 2,5/4A/ZS BU	167	3738.2	ZPL 1,5 BG	175	3794.2	ZAP SR 3A/15 BG	280
3627.2	ZTRK 2,5/4A/ZS 36 BG	167	3738.2	ZPL 1,5 BG	175	3794.3	ZAP SR 3A/15 OG	280
3628.2	ZTRK 2,5/4A/ZS 70 BG	167	3739.6	ZPL 1,5 RB	174	3794.5	ZAP SR 3A/15 BU	280
3629.2	ZTRK 2,5/4A/ZS 150 BG	167	3740.2	ZTA 2,5	320	3794.8	ZAP SR 3A/15 YE	280
3630.2	ZTRK 2,5/4A/ZS 250 BG	167	3741.2	ZTA 4	320	3794.9	ZAP SR 3A/15 RD	280
3631.2	ZS/H1/ZTR/36	322	3742.5	ZPL 1,5 BU	174	3795.1	ZAP SR 3A/35 GN	280
3632.2	ZS/H2/ZTR/70	322	3743.2	ZPL 1,5 PE GNYE	174	3795.2	ZAP SR 3A/35 BG	280
3633.2	ZS/H3/ZTR/150	322	3744.2	ZVQI 2,5 OG	309	3795.3	ZAP SR 3A/35 OG	280
3634.2	ZS/H4/ZTR/250	322	3745.2	ZBA 1 BG	314	3795.5	ZAP SR 3A/35 BU	280
3635.2	ZS/H0/ZTR	322	3746.2	ZAP/TW ZIZA 1,5/3 BG	281	3795.8	ZAP SR 3A/35 YE	280
3636.1	ZRK 16/2A GN	151	3747.2	ZAP/TW ZIZA 1,5/4 BG	281	3795.9	ZAP SR 3A/35 RD	280
3636.2	ZRK 16/2A BG	151	3748.2	ZES 35 BG	275	3796.1	ZAPT 2,5/2A GN	281
3636.3	ZRK 16/2A OG	151	3749.0	SchT 9	276	3796.2	ZAPT 2,5/2A BG	281
3636.5	ZRK 16/2A BU	151	3750.7	ZRH 2,5/0,13-0,2 WH	320	3796.3	ZAPT 2,5/2A OG	281
3636.9	ZRK 16/2A RD	151	3751.6	ZRH 2,5/0,25-0,5 GR	320	3796.5	ZAPT 2,5/2A BU	281
3637.2	ZSL 16/2A GNYE	151	3752.4	ZRH 2,5/0,75-1,0 BK	320	3796.8	ZAPT 2,5/2A YE	281
3638.2	ZSLN 2,5/2A-D GNYE	180	3753.7	ZRH 4/0,13-0,2 WH	321	3796.9	ZAPT 2,5/2A RD	281
3639.2	ZSLN 2,5/2A-RC GNYE	181	3754.6	ZRH 4/0,25-0,5 GR	321	3797.1	ZAPT 2,5/3A GN	281
3640.2	ZSLN 2,5/2A-D/F GNYE	181	3755.4	ZRH 4/0,75-1,0 BK	321	3797.2	ZAPT 2,5/3A BG	281
3641.2	ZIZA 1,5/3/9 POL	176	3756.1	ZAPD 2,5 GN	281	3797.3	ZAPT 2,5/3A OG	281
3642.2	ZIZA 1,5/3/9 POL/LED(RD)	176	3756.2	ZAPD 2,5 BG	281	3797.5	ZAPT 2,5/3A BU	281
3643.2	ZIZA 1,5/3/17 POL	176	3756.3	ZAPD 2,5 OG	281	3797.8	ZAPT 2,5/3A YE	281
3644.2	ZIZA 1,5/3/17 POL/LED(RD)	176	3756.5	ZAPD 2,5 BU	281	3797.9	ZAPT 2,5/3A RD	281
3694.0	SSAB 5	232	3756.8	ZAPD 2,5 YE	281	3798.1	ZAPT 2,5/4A GN	281
3695.0	SSAB 8	232	3756.9	ZAPD 2,5 RD	281	3798.2	ZAPT 2,5/4A BG	281
3696.0	SSAB 14	232	3757.1	ZAP SR GN	280	3798.3	ZAPT 2,5/4A OG	281
3697.0	SSAB 20	233	3757.2	ZAP SR BG	280	3798.5	ZAPT 2,5/4A BU	281
3698.0	SSAB 28	233	3757.3	ZAP SR OG	280	3798.8	ZAPT 2,5/4A YE	281
3699.0	SSAB 35	233	3757.5	ZAP SR BU	280	3798.9	ZAPT 2,5/4A RD	281
3700			3757.8	ZAP SR YE	280	3799.1	ZAP 16/2A GN	281
3700.1	ZAP 2,5/2A GN	280	3757.9	ZAP SR RD	280	3799.2	ZAP 16/2A BG	281
3700.2	ZAP 2,5/2A BG	280	3758.1	ZAP SR/RC GN	280	3799.3	ZAP 16/2A OG	281
3700.3	ZAP 2,5/2A OG	280	3758.2	ZAP SR/RC BG	280	3799.5	ZAP 16/2A BU	281
3700.5	ZAP 2,5/2A BU	280	3758.3	ZAP SR/RC OG	280	3799.8	ZAP 16/2A YE	281
3700.8	ZAP 2,5/2A YE	280	3758.5	ZAP SR/RC BU	280	3799.9	ZAP 16/2A RD	281
3700.9	ZAP 2,5/2A RD	280	3758.8	ZAP SR/RC YE	280	3800		
3701.1	ZAP 2,5/3A GN	280	3758.9	ZAP SR/RC RD	280	3800.8	ZQI 16/2 YE	309
3701.2	ZAP 2,5/3A BG	280	3759.1	ZEH 1 GN	275	3801.0	ZAD 16/4/B YE	315
3701.3	ZAP 2,5/3A OG	280	3759.2	ZEH 1 BG	275	3802.0	BW 6 (ZRK)	329
3701.5	ZAP 2,5/3A BU	280	3759.3	ZEH 1 OG	275	3803.0	BW 7 (ZRK)	329
3701.8	ZAP 2,5/3A YE	280	3759.5	ZEH 1 BU	275	3804.0	BW 8 (ZRK)	329
3701.9	ZAP 2,5/3A RD	280	3760.1	ZAP 6/2A GN	281	3805.0	BW 9 (ZRK)	329
3702.1	ZAP 2,5/4A GN	280	3760.2	ZAP 6/2A BG	281	3806.0	BW 10 (ZRK)	329
3702.2	ZAP 2,5/4A BG	280	3760.3	ZAP 6/2A OG	281	3807.0	ZSchT 6	277
3702.3	ZAP 2,5/4A OG	280	3760.5	ZAP 6/2A BU	281	3808.0	BWMA 1 (0,5 x 3,5 mm)	328
3702.5	ZAP 2,5/4A BU	280	3760.8	ZAP 6/2A YE	281	3809.0	SchT 10	276
3702.8	ZAP 2,5/4A YE	280	3760.9	ZAP 6/2A RD	281	3810.2	ZTA 16	321
3702.9	ZAP 2,5/4A RD	280	3761.1	ZAP 2,5/ID GN	281	3811.2	ZES 35/2 BG	275
3703.1	ZAP 4/2A GN	280	3761.2	ZAP 2,5/ID BG	281	3812.2	ZES 15 BG	275
3703.2	ZAP 4/2A BG	280	3761.3	ZAP 2,5/ID OG	281	3813.2	ZBA 3 BG	314
3703.3	ZAP 4/2A OG	280	3761.5	ZAP 2,5/ID BU	281	3826.0	MPS Tool M	425
3703.5	ZAP 4/2A BU	280	3761.8	ZAP 2,5/ID YE	281	3827.4	GSU-H 17x15 BK	400
3703.8	ZAP 4/2A YE	280	3761.9	ZAP 2,5/ID RD	281	3828.4	GSU-H 27x15 BK	400
3703.9	ZAP 4/2A RD	280	3762.2	ZAP MA BG	281	3829.4	GSU-H 49x15 BK	401
3704.1	ZAP 4/3A GN	280	3762.5	ZAP MA BU	281	3830.4	GSU-H 60x15 BK	401
3704.2	ZAP 4/3A BG	280	3763.8	ZQI 6/2 YE	309	3831.0	BW 1 (FRK)	329
3704.3	ZAP 4/3A OG	280	3764.8	ZQI 6/3 YE	309	3832.0	BW 2 (FRK)	329
3704.5	ZAP 4/3A BU	280	3765.8	ZQI 6/4 YE	309	3833.0	BW 3 (FRK)	329
3704.8	ZAP 4/3A YE	280	3766.8	ZQI 6/5 YE	309	3834.0	BW 4 (FRK)	329
3704.9	ZAP 4/3A RD	280	3767.8	ZQI 6/6 YE	309	3835.0	BW 5 (FRK)	329
3705.1	ZAP 4/4A GN	280	3768.8	ZQI 6/7 YE	309	3836.0	BW 6 (FRK)	329
3705.2	ZAP 4/4A BG	280	3769.8	ZQI 6/8 YE	309	3837.0	BW 7 (FRK)	329
3705.3	ZAP 4/4A OG	280	3770.8	ZQI 6/9 YE	309	3838.0	BW 8 (FRK)	329
3705.5	ZAP 4/4A BU	280	3771.8	ZQI 6/10 YE	309	3839.0	BW 9 (FRK)	329
3705.8	ZAP 4/4A YE	280	3772.2	ZTA 6	321	3840.0	BW 10 (FRK)	329
3705.9	ZAP 4/4A RD	280	3773.0	ZSchT 1	276	3841.0	BWMA 1 (0,5 x 2,5 mm)	328
3706.0	ZAD 2,5/4/B YE	315	3774.0	ZSchT 2	277	3850.4	GSU-H 60x30 BK	401
3707.0	ZAD 4/4/B YE	315	3775.0	ZSchT 3	277	3851.4	GSU-H 85,4x54 BK	401
3708.0	ZAD 6/4/B YE	315	3776.0	ZSchT 4	277	3852.7	MC GSU 60x30 R WH	401
3709.0	ZAD 10/4/B YE	315	3777.0	ZSchT 5	277	3852.8	MC GSU 60x30 R YE	401
3710.8	ZQI 2,5/2 YE	308	3778.0	BW 1 (ZRK)	328	3853.7	MC GSU 60x30 K WH	401
3711.8	ZQI 2,5/3 YE	308	3779.0	BW 2 (ZRK)	328	3853.8	MC GSU 60x30 K YE	401
3712.8	ZQI 2,5/4 YE	308	3780.0	BW 3 (ZRK)	328	3854.7	MC GSU 60x30 R So WH	401
3713.8	ZQI 2,5/5 YE	308	3781.0	BW 4 (ZRK)	328	3854.8	MC GSU 60x30 R So YE	401
3714.8	ZQI 2,5/6 YE	308	3782.0	BW 5 (ZRK)	328	3855.7	MC GSU 60x30 K So WH	401
3715.8	ZQI 2,5/7 YE	308	3783.2	GT 1	277	3855.8	MC GSU 60x30 K So YE	401
3716.8	ZQI 2,5/8 YE	308	3784.2	GT 2	277	3856.7	MC GSU 85,4x54 R WH	401
3717.8	ZQI 2,5/9 YE	308	3785.2	ZAP ZMP BG	281	3856.8	MC GSU 85,4x54 R YE	401
3718.8	ZQI 2,5/10 YE	308	3786.2	ZBA 2 BG	315	3857.7	MC GSU 85,4x54 K WH	401
3719.4	ZQI 2,5/0,5 m/99 poles BK	308	3787.2	ZBA 2/Z BG	315	3857.8	MC GSU 85,4x54 K YE	401
3719.5	ZQI 2,5/0,5 m/99 poles BU	308	3788.1	ZAP 10/2A GN	281	3858.7	MC GSU 85,4x54 R So WH	401
3719.8	ZQI 2,5/0,5 m/99 poles YE	308	3788.2	ZAP 10/2A BG	281	3858.8	MC GSU 85,4x54 R So YE	401
3719.9	ZQI 2,5/0,5 m/99 poles RD	308	3788.3	ZAP 10/2A OG	281	3859.7	MC GSU 85,4x54 K So WH	401
3720.8	ZQI 4/2 YE	308	3788.5	ZAP 10/2A BU	281	3859.8	MC GSU 85,4x54 K So YE	401
3721.8	ZQI 4/3 YE	308	3788.8	ZAP 10/2A YE	281	3860.0	STR MC GSU 17x15 R transparent	400
3722.8	ZQI 4/4 YE	308	3788.9	ZAP 10/2A RD	281	3861.0	STR MC GSU 27x15 R transparent	400
3723.8	ZQI 4/5 YE	308	3789.8	ZQI 10/2 YE	309	3862.0	STR MC GSU 49x15 R transparent	401
3724.8	ZQI 4/6 YE	308	3790.2	ZTA 10	321	3863.0	STR MC GSU 60x15 R transparent	401
3725.8	ZQI 4/7 YE	308	3791.8	ZPL 1,5 YE	174	3864.0	STR MC GSU 60x30 R transparent	401
3726.8	ZQI 4/8 YE	308	3792.1	ZPL 1,5 GN	174	3865.0	STR MC GSU 85,4x54 R transparent	401
3727.8	ZQI 4/9 YE	308	3793.3	ZPL 1,5 OG	174	3872.8	MC GSU 17x15 R/B YE	402

Cat. no.	Type	Page	Cat. no.	Type	Page	Cat. no.	Type	Page
3873.8	MC GSU 17x15 K/B YE	402	3926.7	GKE 56/22 A4 WH	405	4051.2	CM 240	466
3874.8	MC GSU 27x15 R/B YE	402	3926.8	GKE 56/22 A4 YE	405	4052.2	CM 240/9	466
3875.8	MC GSU 27x15 K/B YE	402	3927.7	GKE 60/36 A4 WH	405	4053.2	CM 240/12	466
3876.8	MC GSU 49x15 R/B YE	403	3927.8	GKE 60/36 A4 YE	405	4060.2	CM 52/DT	466
3877.8	MC GSU 49x15 K/B YE	403	3928.7	GKE 105/148 A4 WH	405	4061.2	CM 82/5 DT	466
3878.8	MC GSU 60x15 R/B YE	403	3928.8	GKE 105/148 A4 YE	405	4062.2	CM 82/8 DT	466
3879.8	MC GSU 60x15 K/B YE	403	3929.7	GKE 210/148 A4 WH	405	4063.2	CM 120/5 DT	466
3880.8	MC GSU 60x30 R/B YE	403	3929.8	GKE 210/148 A4 YE	405	4064.2	CM 120/8 DT	466
3881.8	MC GSU 60x30 K/B YE	403	3950.7	KKE 34/18 WH	394	4065.2	CM 160/5 DT	466
3882.8	MC GSU 85,4x54 R/B YE	403	3950.8	KKE 34/18 YE	394	4066.2	CM 160/8 DT	466
3883.8	MC GSU 85,4x54 K/B YE	403	3951.7	KKE 76/25 WH	394	4067.2	CM 122/5 DT	466
3884.7	MC GS 6x12 R WH	397	3951.8	KKE 76/25 YE	394	4068.2	CM 122/8 DT	466
3885.7	MC GS 6x12 R So WH	397	3952.7	KKE 93/36 WH	394	4069.2	CM 200/12 DT	466
3886.7	MC GS 6x12 K WH	397	3952.8	KKE 93/36 YE	394	4070.2	CM 200/15 DT	466
3887.7	MC GS 6x12 K So WH	397	3953.7	KKE 140/25 WH	394	4071.2	CM 240/DT	466
3888.8	MC GSU 45x15 K/B YE	402	3953.8	KKE 140/25 YE	394	4072.2	CM 240/9 DT	466
3894.0	TS-PSS 2	426	3954.7	KKE 55/23 WH	394	4073.2	CM 240/12 DT	466
3895.0	TS-PS eco	426	3954.8	KKE 55/23 YE	394	4080.3	CT 52	466
3896.0	KSH 4/30	382	3955.7	KKE 35/25 WH	394	4081.3	CT 82/5	466
3897.0	VK-S	427	3955.8	KKE 35/25 YE	394	4082.3	CT 82/8	466
3898.0	SMSST/L 12x6.4 mm	426	3956.7	KKE 25/37 A4 WH	395	4083.3	CT 120/5	466
3898.1	SMSST/Q 12x6.4 mm	426	3956.8	KKE 25/37 A4 YE	395	4084.3	CT 120/8	466
3898.2	SMSST/R 5.5 mm	426	3957.7	KKE 34/17,8 A4 WH	395	4085.3	CT 160/5	466
3898.3	SMSST/R 6.0 mm	426	3957.8	KKE 34/17,8 A4 YE	395	4086.3	CT 160/8	466
3899.0	VK-S/EM	427	3958.7	KKE 55/22,8 A4 WH	395	4087.3	CT 122/5	466
3900			3958.8	KKE 55/22,8 A4 YE	395	4088.3	CT 122/8	466
3900.0	GKE 15/6 SI	404	3959.7	KKE 68/25,4 A4 WH	395	4089.3	CT 200/12	466
3900.7	GKE 15/6 WH	404	3959.8	KKE 68/25,4 A4 YE	395	4090.3	CT 200/15	466
3900.8	GKE 15/6 YE	404	3960.7	KKE 93/35,5 A4 WH	395	4091.3	CT 240	466
3901.0	GKE 18/6 SI	404	3960.8	KKE 93/35,5 A4 YE	395	4092.3	CT 240/9	466
3901.7	GKE 18/6 WH	404	3961.7	KKE 139,7/25,4 A4 WH	395	4093.3	CT 240/12	466
3901.8	GKE 18/6 YE	404	3961.8	KKE 139,7/25,4 A4 YE	395	4100		
3902.0	GKE 18/9 SI	404	3980.0	D1.5/2 LG	222	4140.2	S/M 12x1,5	487
3902.7	GKE 18/9 WH	404	3981.0	D1.5/3 LG	222	4141.2	S/M 16x1,5	487
3902.8	GKE 18/9 YE	404	3982.0	D1.5/4 LG	222	4142.2	S/M 20x1,5	487
3903.0	GKE 20/8 SI	404	3983.0	D1.5/5 LG	223	4143.2	S/M 25x1,5	487
3903.0	GKE 20/8 WH	404	3984.0	D1.5/8 LG	223	4144.2	S/M 32x1,5	487
3903.7	GKE 20/8 WH	404	3985.4	D2.5/2 DG	222	4145.2	S/M 40x1,5	487
3903.7	GKE 20/8 WH	404	3986.4	D2.5/3 DG	222	4146.2	S/M 50x1,5	487
3903.8	GKE 20/8 YE	404	3987.4	D2.5/4 DG	222	4147.2	S/M 63x1,5	487
3903.8	GKE 20/8 YE	404	3988.4	D2.5/5 DG	223	4148.2	SN/M20	487
3904.0	GKE 25/12 SI	404	3989.4	D2.5/8 DG	223	4149.2	SN/M25	487
3904.0	GKE 25/12 SI	404	3990.0	D4.0/3 LG	223	4150.2	SN/M32	487
3904.7	GKE 25/12 WH	404	3991.8	AQI 2/10/18 YE	293	4151.2	SN/M40	487
3904.7	GKE 25/12 WH	404	3992.8	AQI 3/10/18 YE	293	4160.2	DM/M16	487
3904.8	GKE 25/12 YE	404	3993.8	AQI 4/10/18 YE	293	4161.2	DM/M20	487
3904.8	GKE 25/12 YE	404	3994.8	AQI 10/10/18 YE	293	4162.2	DM/M25	487
3905.0	GKE 26/10 SI	404	3995.8	AQI 50/10/18 YE	293	4163.2	DM/M32	487
3905.7	GKE 26/10 WH	404	4000			4164.2	VS/M 16	488
3905.8	GKE 26/10 YE	404	4000.0	CA 50/30	474	4165.2	VS/M 20	488
3906.0	GKE 26,5/17,5 SI	404	4001.0	CA 58/34	474	4166.2	VS/M 25	488
3907.0	GKE 30/20 SI	404	4002.0	CA 98/34	474	4167.2	VS/M 32	488
3907.7	GKE 30/20 WH	404	4003.0	CA 75/57	474	4168.2	VS/M 40	488
3907.8	GKE 30/20 YE	404	4004.0	CA 125/57	474	4169.2	KV/M 12x1,5-MS	488
3908.0	GKE 32/9 SI	404	4005.0	CA 150/34	474	4170.2	KV/M 16x1,5-MS	488
3908.7	GKE 32/9 WH	404	4006.0	CA 175/57	474	4171.2	KV/M 20x1,5-MS	488
3908.8	GKE 32/9 YE	404	4007.0	CA 122/80	474	4172.2	KV/M 25x1,5-MS	488
3909.0	GKE 38/19 SI	404	4008.0	CA 220/80	474	4173.2	KV/M 32x1,5-MS	488
3909.0	GKE 38/19 SI	404	4009.0	CA 220/90	474	4174.2	KV/M 40x1,5-MS	488
3909.7	GKE 38/19 WH	404	4010.0	CA 160/90	474	4175.2	KV/M 50x1,5-MS	488
3909.7	GKE 38/19 WH	404	4011.0	CA 260/90	474	4176.2	KV/M 63x1,5-MS	488
3909.8	GKE 38/19 YE	404	4012.0	CA 360/90	474	4178.2	V/M 12x1,5 MS	489
3909.8	GKE 38/19 YE	404	4013.0	CA 560/90	474	4179.2	V/M 16x1,5 MS	489
3910.0	GKE 45/23 SI	404	4014.0	CA 250/52	474	4180.2	V/M 20x1,5 MS	489
3910.7	GKE 45/23 WH	404	4015.0	CA 360/80	474	4181.2	V/M 25x1,5 MS	489
3910.8	GKE 45/23 YE	404	4016.0	CA 200/110	474	4182.2	V/M 32x1,5 MS	489
3911.0	GKE 65/35 SI	404	4017.0	CA 280/110	474	4183.2	V/M 40x1,5 MS	489
3911.7	GKE 65/35 WH	404	4018.0	CA 330/110	474	4184.2	V/M 50x1,5 MS	489
3911.8	GKE 65/35 YE	404	4019.0	CA 330/180	474	4185.2	V/M 63x1,5 MS	489
3912.0	GKE 101/48 SI	404	4020.1	CP 80/55	454	4186.2	S/M 12x1,5-MS	489
3913.0	GKE 101/74 SI	404	4021.1	CP 110/55	454	4187.2	S/M 16x1,5-MS	489
3914.8	GKE 10/7 YE	404	4022.1	CP 160/55	454	4188.2	S/M 20x1,5-MS	489
3915.0	GKE 21,5/21,5 SI	404	4023.1	CP 190/55	454	4189.2	S/M 25x1,5-MS	489
3916.0	GKE 27/27 SI	404	4024.1	CP 122/90	454	4190.2	S/M 32x1,5-MS	489
3917.7	GKE 30/6 WH	404	4025.1	CP 160/90	454	4191.2	S/M 40x1,5-MS	489
3917.7	GKE 30/6 WH	404	4026.1	CP 220/90	454	4192.2	S/M 50x1,5-MS	489
3920.7	GKE 15/4,6 A4 WH	405	4027.1	CP 260/90	454	4193.2	S/M 63x1,5-MS	489
3920.8	GKE 15/4,6 A4 YE	405	4028.1	CP 360/90	454	4194.3	CK 2518/63 OVT	438
3921.7	GKE 15/6 A4 WH	405	4029.1	CP 255/120	454	4195.3	CK 2518/84 OVT	438
3921.8	GKE 15/6 A4 YE	405	4030.1	CP 400/120	454	4196.3	CK 2518/84 OVT	438
3922.7	GKE 20/8 A4 WH	405	4031.1	CP 400/120-2	454	4197.3	CK 2518/84 OVT	438
3922.8	GKE 20/8 A4 YE	405	4040.2	CM 52	466	4198.1	CP 230/75	454
3922.8	GKE 20/8 A4 YE	405	4041.2	CM 82/5	466	4200		
3922.8	GKE 20/8 A4 YE	405	4042.2	CM 82/8	466	4201.3	CK 77/57 OV	438
3923.7	GKE 25,4/12,7 A4 WH	405	4043.2	CM 120/5	466	4203.3	CK 77/57 OVT	438
3923.8	GKE 25,4/12,7 A4 YE	405	4044.2	CM 120/8	466	4205.3	CK 77/81 OV	438
3924.7	GKE 26/10 A4 WH	405	4045.2	CM 160/5	466	4207.3	CK 77/81 OVT	438
3924.7	GKE 26/10 A4 WH	405	4046.2	CM 160/8	466	4209.3	CK 97/57 OV	438
3924.8	GKE 26/10 A4 YE	405	4047.2	CM 122/5	466	4211.3	CK 97/57 OVT	438
3924.8	GKE 26/10 A4 YE	405	4048.2	CM 122/8	466	4213.3	CK 97/81 OV	438
3925.7	GKE 30/20 A4 WH	405	4049.2	CM 200/12	466	4215.3	CK 97/81 OVT	438
3925.8	GKE 30/20 A4 YE	405	4050.2	CM 200/15	466	4217.3	CK 99/57 OV	438

Cat. no.	Type	Page	Cat. no.	Type	Page	Cat. no.	Type	Page
4219.3	CK 99/57 OVT	438	4362.3	CK 2518/111 MV	438	4504.6	MP/M-T/52	467
4221.3	CK 99/81 OV	438	4363.3	CK 2518/111 MVT	438	4504.8	MP/M-T/82	468
4223.3	CK 99/81 OVT	438	4364.3	CK 2518/165 MV	438	4505.0	MP/M-T/120	468
4225.3	CK 1111/66 OV	438	4365.3	CK 2518/165 MVT	438	4505.2	MP/M-T/160	471
4227.3	CK 1111/66 OVT	438	4366.3	CK 3625/111 MV	438	4505.4	MP/M-T/122	470
4229.3	CK 1111/90 OV	438	4367.3	CK 3625/111 MVT	438	4505.6	MP/M-T/200/12	471
4231.3	CK 1111/90 OVT	438	4368.3	CK 3625/165 MV	438	4505.8	MP/M-T/200/15	472
4233.3	CK 1309/57 OV	438	4369.3	CK 3625/165 MVT	438	4506.0	MP/M-T/240	472
4235.3	CK 1309/57 OVT	438	4370.2	CK-PC 75/35 MV	446	4507.0	TS 15/160 mm long	479
4237.3	CK 1309/81 OV	438	4371.2	CK-PC 75/35 MVT	446	4507.1	TS 35/110 mm long	477
4239.3	CK 1309/81 OVT	438	4372.2	CK-PC 77/57 MV	446	4507.3	TS 35/208 mm long	480
4241.3	CK 1313/75 OV	438	4373.2	CK-PC 77/57 MVT	446	4507.4	TS 35/144 mm long	478
4243.3	CK 1313/75 OVT	438	4374.2	CK-PC 77/81 MV	446	4507.5	TS 35/248 mm long	481
4245.3	CK 1313/99 OV	438	4375.2	CK-PC 77/81 MVT	446	4507.6	TS 35/338 mm long	484
4247.3	CK 1313/99 OVT	438	4376.2	CK-PC 97/57 MV	446	4507.7	TS 35/545 mm long	485
4249.3	CK 1809/57 OV	438	4377.2	CK-PC 97/57 MVT	446	4507.8	TS 15/68 mm long	467
4251.3	CK 1809/57 OVT	438	4378.2	CK-PC 97/81 MV	446	4507.9	TS 15/98 mm long	457
4253.3	CK 1809/81 OV	438	4379.2	CK-PC 97/81 MVT	446	4508.0	TS 15/148 mm long	458
4255.3	CK 1809/81 OVT	438	4380.2	CK-PC 99/57 MV	446	4508.1	TS 15/178 mm long	460
4257.3	CK 1811/90 OV	438	4381.2	CK-PC 99/57 MVT	446	4508.2	TS 35/240 mm long	463
4259.3	CK 1811/90 OVT	438	4382.2	CK-PC 99/81 MV	446	4508.3	TS 35/340 mm long	463
4261.3	CK 1811/111 OV	438	4383.2	CK-PC 99/81 MVT	446	4508.4	TS 35/235 mm long	462
4263.3	CK 1811/111 OVT	438	4384.2	CK-PC 1111/66 MV	446	4508.5	TS 35/384 mm long	464
4265.3	CK 1811/165 OV	438	4385.2	CK-PC 1111/66 MVT	446	4508.7	TS 15/144 mm long	470
4267.3	CK 1811/165 OVT	438	4386.2	CK-PC 1111/90 MV	446	4508.8	TS 35/112 mm long	469
4269.3	CK 1818/90 OV	438	4387.2	CK-PC 1111/90 MVT	446	4508.9	TS 15/188 mm long	471
4271.3	CK 1818/90 OVT	438	4388.2	CK-PC 1309/57 MV	446	4509.0	TS 35/188 mm long	471
4273.3	CK 1818/111 OV	438	4389.2	CK-PC 1309/57 MVT	446	4509.1	TS 35/230 mm long	472
4275.3	CK 1818/111 OVT	438	4390.2	CK-PC 1309/81 MV	446	4509.3	WL/CP/CA short	477
4277.3	CK 1818/165 OV	438	4391.2	CK-PC 1309/81 MVT	446	4509.4	WL/CP/CA long	478
4279.3	CK 1818/165 OVT	438	4392.2	CK-PC 1313/75 MV	446	4509.6	AC (pair)	477
4285.3	CK 2518/90 OV	438	4393.2	CK-PC 1313/75 MVT	446	4510.2	WL/CM/CT	467
4287.3	CK 2518/90 OVT	438	4394.2	CK-PC 1313/99 MV	446	4510.3	AC (pair)	467
4289.3	CK 2518/111 OV	438	4395.2	CK-PC 1313/99 MVT	446	4510.7	TS 15/61 mm long	476
4291.3	CK 2518/111 OVT	438	4396.2	CK-PC 1809/57 MV	446	4510.8	TS 15/110 mm long	468
4293.3	CK 2518/165 OV	438	4397.2	CK-PC 1809/57 MVT	446	4510.9	TS 35/160 mm long	479
4295.3	CK 2518/165 OVT	438	4398.2	CK-PC 1809/81 MV	446	4511.0	MP/CK 77	439
4297.3	CK 2518/215 OV	438	4399.2	CK-PC 1809/81 MVT	446	4511.1	MP/CK 97	439
4299.3	CK 2518/215 OVT	438	4400			4511.2	MP/CK 99	440
4300			4400.2	CK-PC 1811/90 MV	446	4511.3	MP/CK 1111	440
4301.3	CK 3625/111 OV	438	4401.2	CK-PC 1811/90 MVT	446	4511.4	MP/CK 1309	441
4303.3	CK 3625/111 OVT	438	4402.2	CK-PC 1811/111 MV	446	4511.5	MP/CK 1313	441
4305.3	CK 3625/165 OV	438	4403.2	CK-PC 1811/111 MVT	446	4511.6	MP/CK 1809	442
4307.3	CK 3625/165 OVT	438	4404.2	CK-PC 1811/165 MV	446	4511.7	MP/CK 1811	442
4316.3	CK 77/57 MV	438	4405.2	CK-PC 1811/165 MVT	446	4511.8	MP/CK 1818	443
4317.3	CK 77/57 MVT	438	4406.2	CK-PC 1818/90 MV	446	4511.9	MP/CK 2518	443
4318.3	CK 77/81 MV	438	4407.2	CK-PC 1818/90 MVT	446	4512.0	MP/CK 3625	445
4319.3	CK 77/81 MVT	438	4408.2	CK-PC 1818/111 MV	446	4512.1	WL/CK	439
4320.3	CK 97/57 MV	438	4409.2	CK-PC 1818/111 MVT	446	4512.2	AG/CK 77-CK 1809	439
4321.3	CK 97/57 MVT	438	4410.2	CK-PC 1818/165 MV	446	4512.3	AG/CK 1811-CK 3625	442
4322.3	CK 97/81 MV	438	4411.2	CK-PC 1818/165 MVT	446	4512.5	MP/A 362	484
4323.3	CK 97/81 MVT	438	4412.2	CK-PC 2518/63 MV	446	4512.6	MP/A2023	479
4324.3	CK 99/57 MV	438	4414.2	CK-PC 2518/63 MVT	446	4512.8	MP/A3323	483
4325.3	CK 99/57 MVT	438	4416.2	CK-PC 2518/84 MV	446	4515.2	KV/PG 7	491
4326.3	CK 99/81 MV	438	4418.2	CK-PC 2518/84 MVT	446	4515.6	V/PG 7	491
4327.3	CK 99/81 MVT	438	4420.2	CK-PC 2518/90 MV	446	4515.8	S/PG 7	491
4328.3	CK 1111/66 MV	438	4421.2	CK-PC 2518/90 MVT	446	4516.2	KV/PG 9	491
4329.3	CK 1111/66 MVT	438	4422.2	CK-PC 2518/111 MV	446	4516.6	V/PG 9	491
4330.3	CK 1111/90 MV	438	4423.2	CK-PC 2518/111 MVT	446	4516.8	S/PG 9	491
4331.3	CK 1111/90 MVT	438	4424.2	CK-PC 2518/165 MV	446	4517.2	KV/PG 11	491
4332.3	CK 1309/57 MV	438	4425.2	CK-PC 2518/165 MVT	446	4517.6	V/PG 11	491
4333.3	CK 1309/57 MVT	438	4428.2	CK-PC 3625/111 MV	446	4517.8	S/PG 11	491
4334.3	CK 1309/81 MV	438	4429.2	CK-PC 3625/111 MVT	446	4518.2	KV/PG 13,5	491
4335.3	CK 1309/81 MVT	438	4430.2	CK-PC 3625/165 MV	446	4518.6	V/PG 13,5	491
4336.3	CK 1313/75 MV	438	4431.2	CK-PC 3625/165 MVT	446	4518.8	S/PG 13,5	491
4337.3	CK 1313/75 MVT	438	4432.1	CP 55/37	454	4519.2	KV/PG 16	491
4338.3	CK 1313/99 MV	438	4433.1	CP 55/59	454	4519.6	V/PG 16	491
4339.3	CK 1313/99 MVT	438	4434.1	CP 110/75	454	4519.8	S/PG 16	491
4340.3	CK 1809/57 MV	438	4435.1	CP 160/75	454	4520.2	KV/PG 21	491
4341.3	CK 1809/57 MVT	438	4436.1	CP 190/75	454	4520.6	V/PG 21	491
4342.3	CK 1809/81 MV	438	4437.1	CP 230/55	454	4520.8	S/PG 21	491
4343.3	CK 1809/81 MVT	438	4438.0	CA 280/100	474	4521.2	KV/PG 29	491
4344.3	CK 1811/90 MV	438	4439.1	CP 80/75	454	4521.6	V/PG 29	491
4345.3	CK 1811/90 MVT	438	4500			4521.8	S/PG 29	491
4346.3	CK 1811/111 MV	438	4500.3	MP/P 110	457	4522.2	KV/PG 36	491
4347.3	CK 1811/111 MVT	438	4500.5	MP/A 122	477	4522.6	V/PG 36	491
4348.3	CK 1811/165 MV	438	4500.7	MP/A 75	476	4522.8	S/PG 36	491
4349.3	CK 1811/165 MVT	438	4500.9	MP/A 125	477	4523.2	KV/PG 42	491
4350.3	CK 1818/90 MV	438	4501.1	MP/P 160/5	458	4523.6	V/PG 42	491
4351.3	CK 1818/90 MVT	438	4501.3	MP/A 175	479	4523.8	S/PG 42	491
4352.3	CK 1818/111 MV	438	4501.7	MP/220/8/9	480	4524.2	KV/PG 48	491
4353.3	CK 1818/111 MVT	438	4501.9	MP/A 160	478	4524.6	V/PG 48	491
4353.3	CK 1818/111 MVT	438	4502.1	MP/A 260	481	4524.8	S/PG 48	491
4354.3	CK 1818/165 MV	438	4502.3	MP/A 360	484	4525.2	KVC/PG 7	491
4355.3	CK 1818/165 MVT	438	4502.5	MP/A 560	485	4526.2	KVC/PG 9	491
4356.3	CK 2518/63 MV	438	4502.8	MP/P 190	460	4527.2	KVC/PG 11	491
4357.3	CK 2518/63 MVT	438	4503.0	MP/P 122	458	4528.2	KVC/PG 13,5	491
4358.3	CK 2518/84 MV	438	4503.2	MP/P 160/9	459	4529.2	KVC/PG 16	491
4359.3	CK 2518/84 MVT	438	4503.4	MP/P 220	461	4530.2	KVC/PG 21	491
4360.3	CK 2518/90 MV	438	4503.6	MP/P 260	463	4531.2	KVC/PG 29	491
4361.3	CK 2518/90 MVT	438	4503.8	MP/P 360	463	4532.2	KVC/PG 36	491
4361.3	CK 2518/90 MVT	438	4504.2	MP/P 400/2	464	4533.2	KVC/PG 42	491

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4534.2	KVC/PG 48	491	4612.7	PMC SB 5/50 FW 51-100 WH	339	4703.7	PMC SB 6/50 FW 1-10 WH	340
4535.2	KV/PG 7-MS	492	4613.7	PMC SB 5/50 FW 101-150 WH	339	4704.7	PMC SB 6/50 FW 11-20 WH	340
4535.6	V/PG 7-MS	492	4614.7	PMC SB 5/50 FW 151-200 WH	339	4705.7	PMC SB 6/50 FW 21-30 WH	340
4535.8	S/PG 7-MS	492	4615.7	PMC SB 5/50 FW 201-250 WH	339	4706.7	PMC SB 6/50 FW 31-40 WH	340
4536.2	KV/PG 9-MS	492	4616.7	PMC SB 5/50 FW 251-300 WH	339	4707.7	PMC SB 6/50 FW 41-50 WH	340
4536.6	V/PG 9-MS	492	4617.7	PMC SB 5/50 FW 301-350 WH	339	4708.7	PMC SB 6/50 FW 51-60 WH	340
4536.8	S/PG 9-MS	492	4618.7	PMC SB 5/50 FW 351-400 WH	339	4709.7	PMC SB 6/50 FW 61-70 WH	340
4537.2	KV/PG 11-MS	492	4619.7	PMC SB 5/50 FW 401-450 WH	339	4710.7	PMC SB 6/50 FW 71-80 WH	340
4537.6	V/PG 11-MS	492	4620.7	PMC SB 5/50 FW 451-500 WH	339	4711.7	PMC SB 6/50 FW 81-90 WH	340
4537.8	S/PG 11-MS	492	4621.7	PMC SB 5/50 FW 501-550 WH	339	4712.7	PMC SB 6/50 FW 91-100 WH	340
4538.2	KV/PG 13,5-MS	492	4622.7	PMC SB 5/50 FW 551-600 WH	339	4713.7	PMC SB 6/50 FW 1-50 WH	340
4538.6	V/PG 13,5-MS	492	4623.7	PMC SB 5/50 FW 601-650 WH	339	4714.7	PMC SB 6/50 FW 51-100 WH	340
4538.8	S/PG 13,5-MS	492	4624.7	PMC SB 5/50 FW 651-700 WH	339	4715.7	PMC SB 6/50 FW 101-150 WH	340
4539.2	KV/PG 16-MS	492	4625.7	PMC SB 5/50 FW 701-750 WH	339	4716.7	PMC SB 6/50 FW 151-200 WH	340
4539.6	V/PG 16-MS	492	4626.7	PMC SB 5/50 FW 751-800 WH	339	4717.7	PMC SB 6/50 FW 201-250 WH	340
4539.8	S/PG 16-MS	492	4627.7	PMC SB 5/50 FW 801-850 WH	339	4718.7	PMC SB 6/50 FW 251-300 WH	340
4540.2	KV/PG 21-MS	492	4628.7	PMC SB 5/50 FW 851-900 WH	339	4719.7	PMC SB 6/50 FW 301-350 WH	340
4540.6	V/PG 21-MS	492	4629.7	PMC SB 5/50 FW 901-950 WH	339	4720.7	PMC SB 6/50 FW 351-400 WH	340
4540.8	S/PG 21-MS	492	4630.7	PMC SB 5/50 FW L1,L2,L3,N,PE WH	339	4721.7	PMC SB 6/50 FW 401-450 WH	340
4541.2	KV/PG 29-MS	492	4631.7	PMC SB 5/50 FW U1,V1,W1,N,PE WH	339	4722.7	PMC SB 6/50 FW 451-500 WH	340
4541.6	V/PG 29-MS	492	4632.7	PMC SB 5/50 FW U1,V1,W1 WH	339	4723.7	PMC SB 6/50 FW 501-550 WH	340
4541.8	S/PG 29-MS	492	4633.7	PMC SB 5/50 FW U2,V2,W2,N,PE WH	339	4724.7	PMC SB 6/50 FW 551-600 WH	340
4542.2	KV/PG 36-MS	492	4634.7	PMC SB 5/50 FW U2,V2,W2 WH	339	4725.7	PMC SB 6/50 FW 601-650 WH	340
4542.6	V/PG 36-MS	492	4635.7	PMC SB 5/50 FW X1-X10 WH	339	4726.7	PMC SB 6/50 FW 651-700 WH	340
4542.8	S/PG 36-MS	492	4636.7	PMC SB 5/50 FS 1-10 WH	339	4727.7	PMC SB 6/50 FW 701-750 WH	340
4543.2	KV/PG 42-MS	492	4637.7	PMC SB 5/50 FS 11-20 WH	339	4728.7	PMC SB 6/50 FW 751-800 WH	340
4543.6	V/PG 42-MS	492	4638.7	PMC SB 5/50 FS 21-30 WH	339	4729.7	PMC SB 6/50 FW 801-850 WH	340
4543.8	S/PG 42-MS	492	4639.7	PMC SB 5/50 FS 31-40 WH	339	4730.7	PMC SB 6/50 FW 851-900 WH	340
4544.2	KV/PG 48-MS	492	4640.7	PMC SB 5/50 FS 41-50 WH	339	4731.7	PMC SB 6/50 FW 901-950 WH	340
4544.6	V/PG 48-MS	492	4641.7	PMC SB 5/50 FS 51-60 WH	339	4732.7	PMC SB 6/50 FW L1,L2,L3,N,PE WH	340
4544.8	S/PG 48-MS	492	4642.7	PMC SB 5/50 FS 61-70 WH	339	4733.7	PMC SB 6/50 FW U1,V1,W1,N,PE WH	340
4556.0	BS M 3x5	455	4643.7	PMC SB 5/50 FS 71-80 WH	339	4734.7	PMC SB 6/50 FW U1,V1,W1 WH	340
4557.0	BS M 4x5	476	4644.7	PMC SB 5/50 FS 81-90 WH	339	4735.7	PMC SB 6/50 FW U2,V2,W2,N,PE WH	340
4558.0	BS M 6x8	477	4645.7	PMC SB 5/50 FS 91-100 WH	339	4736.7	PMC SB 6/50 FW U2,V2,W2 WH	340
4559.0	TS 15/49,5 mm long	439	4646.7	PMC SB 5/50 FS 1-50 WH	339	4737.7	PMC SB 6/50 FW X1-X10 WH	340
4559.1	TS 15/80 mm long	439	4647.7	PMC SB 5/50 FS 51-100 WH	339	4738.7	PMC SB 6/50 FS 1-10 WH	340
4559.2	TS 15/87 mm long	476	4648.7	PMC SB 5/50 FS 101-150 WH	339	4739.7	PMC SB 6/50 FS 11-20 WH	340
4559.3	TS 35/81 mm long	440	4649.7	PMC SB 5/50 FS 151-200 WH	339	4740.7	PMC SB 6/50 FS 21-30 WH	340
4559.4	TS 15/111 mm long	441	4650.7	PMC SB 5/50 FS 201-250 WH	339	4741.7	PMC SB 6/50 FS 31-40 WH	340
4559.5	TS 35/106 mm long	441	4651.7	PMC SB 5/50 FS 251-300 WH	339	4742.7	PMC SB 6/50 FS 41-50 WH	340
4559.6	TS 15/154 mm long	442	4652.7	PMC SB 5/50 FS 301-350 WH	339	4743.7	PMC SB 6/50 FS 51-60 WH	340
4559.8	TS 35/336 mm long	445	4653.7	PMC SB 5/50 FS 351-400 WH	339	4744.7	PMC SB 6/50 FS 61-70 WH	340
4560.1	TS 35/186 mm long	479	4654.7	PMC SB 5/50 FS 401-450 WH	339	4745.7	PMC SB 6/50 FS 71-80 WH	340
4560.3	TS 35/314 mm long	483	4655.7	PMC SB 5/50 FS 451-500 WH	339	4746.7	PMC SB 6/50 FS 81-90 WH	340
4561.0	TS 35x15 galvanized	269	4656.7	PMC SB 5/50 FS 501-550 WH	339	4747.7	PMC SB 6/50 FS 91-100 WH	340
4562.0	TS 35x7,5 galvanized	268	4657.7	PMC SB 5/50 FS 551-600 WH	339	4748.7	PMC SB 6/50 FS 1-50 WH	341
4563.0	TS 35x7,5 galvanized	268	4658.7	PMC SB 5/50 FS 601-650 WH	339	4749.7	PMC SB 6/50 FS 51-100 WH	341
4564.0	TS 35x15 galvanized	270	4659.7	PMC SB 5/50 FS 651-700 WH	339	4750.7	PMC SB 6/50 FS 101-150 WH	341
4564.3	WL/CK	447	4660.7	PMC SB 5/50 FS 701-750 WH	339	4751.7	PMC SB 6/50 FS 151-200 WH	341
4566.0	TS 35x15	269	4661.7	PMC SB 5/50 FS 751-800 WH	339	4752.7	PMC SB 6/50 FS 201-250 WH	341
4567.0	TS 15/42 mm long	455	4662.7	PMC SB 5/50 FS 801-850 WH	339	4753.7	PMC SB 6/50 FS 251-300 WH	341
4569.0	TS 35/214 mm long	461	4663.7	PMC SB 5/50 FS 851-900 WH	339	4754.7	PMC SB 6/50 FS 301-350 WH	341
4570.0	TS 35/264 mm long	482	4664.7	PMC SB 5/50 FS L1,L2,L3,N,PE WH	339	4755.7	PMC SB 6/50 FS 351-400 WH	341
4571.0	MP/A 280	482	4665.7	PMC SB 5/50 FS U1,V1,W1,N,PE WH	339	4756.7	PMC SB 6/50 FS 401-450 WH	341
4572.0	TS 35/348 mm long	484	4666.7	PMC SB 5/50 FS U1,V1,W1 WH	339	4757.7	PMC SB 6/50 FS 451-500 WH	341
4573.2	KV/M 12x1,5	486	4667.7	PMC SB 5/50 FS U2,V2,W2,N,PE WH	339	4758.7	PMC SB 6/50 FS 501-550 WH	341
4574.2	KV/M 16x1,5	486	4668.7	PMC SB 5/50 FS U2,V2,W2 WH	339	4759.7	PMC SB 6/50 FS 551-600 WH	341
4575.2	KV/M 20x1,5	486	4669.7	PMC SB 5/50 FS X1-X10 WH	339	4760.7	PMC SB 6/50 FS 601-650 WH	341
4576.2	KV/M 25x1,5	486	4670.7	PMC SB 5/50 GW 1 WH	339	4761.7	PMC SB 6/50 FS 651-700 WH	341
4577.2	KV/M 32x1,5	486	4671.7	PMC SB 5/50 GW 2 WH	339	4762.7	PMC SB 6/50 FS 701-750 WH	341
4578.2	KV/M 40x1,5	486	4672.7	PMC SB 5/50 GW 3 WH	339	4763.7	PMC SB 6/50 FS 751-800 WH	341
4579.2	KV/M 50x1,5	486	4673.7	PMC SB 5/50 GW 4 WH	339	4764.7	PMC SB 6/50 FS 801-850 WH	341
4580.2	KV/M 63x1,5	486	4674.7	PMC SB 5/50 GW 5 WH	339	4765.7	PMC SB 6/50 FS 851-900 WH	341
4581.2	KVC/M 12x1,5	486	4675.7	PMC SB 5/50 GW 6 WH	339	4766.7	PMC SB 6/50 FS L1,L2,L3,N,PE WH	341
4582.2	KVC/M 16x1,5	486	4676.7	PMC SB 5/50 GW 7 WH	339	4767.7	PMC SB 6/50 FS U1,V1,W1,N,PE WH	341
4583.2	KVC/M 20x1,5	486	4677.7	PMC SB 5/50 GW 8 WH	339	4768.7	PMC SB 6/50 FS U1,V1,W1 WH	341
4584.2	KVC/M 25x1,5	486	4678.7	PMC SB 5/50 GW 9 WH	339	4769.7	PMC SB 6/50 FS U2,V2,W2,N,PE WH	341
4585.2	KVC/M 32x1,5	486	4679.7	PMC SB 5/50 GW 0 WH	339	4770.7	PMC SB 6/50 FS U2,V2,W2 WH	341
4586.2	KVC/M 40x1,5	486	4680.7	PMC SB 5/50 GW X WH	339	4771.7	PMC SB 6/50 FS X1-X10 WH	341
4587.2	KVC/M 50x1,5	486	4681.7	PMC SB 5/50 GW PE WH	339	4772.7	PMC SB 6/50 GW 1 WH	341
4588.2	KVC/M 63x1,5	486	4682.7	PMC SB 5/50 GW L1 WH	339	4773.7	PMC SB 6/50 GW 2 WH	341
4589.2	V/M 12x1,5	487	4683.7	PMC SB 5/50 GW L2 WH	339	4774.7	PMC SB 6/50 GW 3 WH	341
4590.2	V/M 16x1,5	487	4684.7	PMC SB 5/50 GW L3 WH	339	4775.7	PMC SB 6/50 GW 4 WH	341
4591.2	V/M 20x1,5	487	4685.7	PMC SB 5/50 GW N WH	339	4776.7	PMC SB 6/50 GW 5 WH	341
4592.2	V/M 25x1,5	487	4686.7	PMC SB 5/50 GS 1 WH	339	4777.7	PMC SB 6/50 GW 6 WH	341
4593.2	V/M 32x1,5	487	4687.7	PMC SB 5/50 GS 2 WH	339	4778.7	PMC SB 6/50 GW 7 WH	341
4594.2	V/M 40x1,5	487	4688.7	PMC SB 5/50 GS 3 WH	339	4779.7	PMC SB 6/50 GW 8 WH	341
4595.2	V/M 50x1,5	487	4689.7	PMC SB 5/50 GS 4 WH	339	4780.7	PMC SB 6/50 GW 9 WH	341
4596.2	V/M 63x1,5	487	4690.7	PMC SB 5/50 GS 5 WH	339	4781.7	PMC SB 6/50 GW 0 WH	341
4600			4691.7	PMC SB 5/50 GS 6 WH	339	4782.7	PMC SB 6/50 GW X WH	341
4600.7	PMC SB 5/50 WH	339	4692.7	PMC SB 5/50 GS 7 WH	339	4783.7	PMC SB 6/50 GW PE WH	341
4601.7	PMC SB 5/50 FW 1-10 WH	339	4693.7	PMC SB 5/50 GS 8 WH	339	4784.7	PMC SB 6/50 GW L1 WH	341
4602.7	PMC SB 5/50 FW 11-20 WH	339	4694.7	PMC SB 5/50 GS 9 WH	339	4785.7	PMC SB 6/50 GW L2 WH	341
4603.7	PMC SB 5/50 FW 21-30 WH	339	4695.7	PMC SB 5/50 GS 0 WH	339	4786.7	PMC SB 6/50 GW L3 WH	341
4604.7	PMC SB 5/50 FW 31-40 WH	339	4696.7	PMC SB 5/50 GS X WH	339	4787.7	PMC SB 6/50 GW N WH	341
4605.7	PMC SB 5/50 FW 41-50 WH	339	4697.7	PMC SB 5/50 GS PE WH	339	4788.7	PMC SB 6/50 GS 1 WH	341
4606.7	PMC SB 5/50 FW 51-60 WH	339	4698.7	PMC SB 5/50 GS L1 WH	339	4789.7	PMC SB 6/50 GS 2 WH	341
4607.7	PMC SB 5/50 FW 61-70 WH	339	4699.7	PMC SB 5/50 GS L2 WH	339	4790.7	PMC SB 6/50 GS 3 WH	341
4608.7	PMC SB 5/50 FW 71-80 WH	339	4700			4791.7	PMC SB 6/50 GS 4 WH	341
4609.7	PMC SB 5/50 FW 81-90 WH	339	4700.7	PMC SB 5/50 GS L3 WH	339	4792.7	PMC SB 6/50 GS 5 WH	341
4610.7	PMC SB 5/50 FW 91-100 WH	339	4701.7	PMC SB 5/50 GS N WH	339	4793.7	PMC SB 6/50 GS 6 WH	341
4611.7	PMC SB 5/50 FW 1-50 WH	339	4702.7	PMC SB 6/50 WH	340	4794.7	PMC SB 6/50 GS 7 WH	341

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4795.7	PMC SB 6/50 GS 8 WH	341	4888.7	PMC SB 4/50 FS U1,V1,W1,N,PE WH	338	4977.0	SI 6,3x32 0,630A-F	325
4796.7	PMC SB 6/50 GS 9 WH	341	4889.7	PMC SB 4/50 FS U1,V1,W1 WH	338	4978.0	SI 6,3x32 0,800A-F	325
4797.7	PMC SB 6/50 GS 0 WH	341	4890.7	PMC SB 4/50 FS U2,V2,W2,N,PE WH	338	4979.0	SI 6,3x32 1,000A-F	325
4798.7	PMC SB 6/50 GS X WH	341	4891.7	PMC SB 4/50 FS U2,V2,W2 WH	338	4980.0	SI 6,3x32 1,250A-F	325
4799.7	PMC SB 6/50 GS PE WH	341	4892.7	PMC SB 4/50 FS X1-X10 WH	338	4981.0	SI 6,3x32 1,600A-F	325
4800			4893.7	PMC SB 4/50 FS 1,3,5-19 WH	338	4982.0	SI 6,3x32 2,000A-F	325
4800.7	PMC SB 6/50 GS L1 WH	341	4894.7	PMC SB 4/50 FS 2,4,6-20 WH	338	4983.0	SI 6,3x32 2,500A-F	325
4801.7	PMC SB 6/50 GS L2 WH	341	4895.7	PMC SB 4/50 GW 1 WH	338	4984.0	SI 6,3x32 3,150A-F	325
4802.7	PMC SB 6/50 GS L3 WH	341	4896.7	PMC SB 4/50 GW 2 WH	338	4985.0	SI 6,3x32 4,000A-F	325
4803.7	PMC SB 6/50 GS N WH	341	4897.7	PMC SB 4/50 GW 3 WH	338	4986.0	SI 6,3x32 5,000A-F	325
4804.7	PMC SB 6/50 GS - WH	341	4898.7	PMC SB 4/50 GW 4 WH	338	4987.0	SI 6,3x32 6,300A-F	325
4805.7	PMC SB 6/50 GW - WH	341	4899.7	PMC SB 4/50 GW 5 WH	338	4988.0	SI 6,3x32 8,000A-F	325
4806.7	PMC SB 6/50 GW + WH	341	4900			4989.0	SI 6,3x32 10,000A-F	325
4807.7	PMC SB 6/50 FS 2,4,6-20 WH	341	4900.0	KH 02/12	370	4990.0	SI C 0,500 A/32V	325
4808.7	PMC SB 6/50 FS 1,3,5-19 WH	341	4901.0	KH 02/15	370	4991.0	SI C 1,000 A/32V	325
4809.7	PMC SB 6/50 FW 2,4,6-20 WH	340	4902.0	KH 02/18	370	4992.0	SI C 2,000 A/32V	325
4810.7	PMC SB 6/50 FW 1,3,5-19 WH	340	4903.0	KH 02/21	370	4993.0	SI C 3,000 A/32V	325
4811.7	PMC SB 6/50 So WH	340	4904.0	KH 10/12	370	4994.0	SI C 4,000 A/32V	325
4812.7	PMC SB 5/50 GS - WH	339	4905.0	KH 10/15	370	4995.0	SI C 5,000 A/32V	325
4813.7	PMC SB 5/50 GW - WH	339	4906.0	KH 10/18	370	4996.0	SI C 7,500 A/32V	325
4814.7	PMC SB 5/50 GW + WH	339	4907.0	KH 10/21	370	4997.0	SI C 10,000 A/32V	325
4815.7	PMC SB 5/50 FS 2,4,6-20 WH	339	4908.0	KH 20/12	370	4998.0	SI C 15,000 A/32V	325
4816.7	PMC SB 5/50 FS 1,3,5-19 WH	339	4909.0	KH 20/15	370	4999.0	SI C 20,000 A/32V	325
4819.7	PMC SB 5/50 So WH	339	4910.0	KH 20/18	370	5900		
4820.7	PMC SB 4/50 WH	338	4911.0	KH 20/21	370	5984.0	KHZ 02/12	371
4821.7	PMC SB 4/50 So WH	338	4912.0	KH 30/12	371	5985.0	KHZ 02/15	371
4822.7	PMC SB 4/50 FW 1-10 WH	338	4913.0	KH 30/15	371	5986.0	KHZ 02/18	371
4823.7	PMC SB 4/50 FW 11-20 WH	338	4914.0	KH 30/18	371	5987.0	KHZ 02/21	371
4824.7	PMC SB 4/50 FW 21-30 WH	338	4915.0	KH 30/21	371	5988.0	KHZ 10/12	371
4825.7	PMC SB 4/50 FW 31-40 WH	338	4916.7	PMC SB 4/50 GW 6 WH	338	5989.0	KHZ 10/15	371
4826.7	PMC SB 4/50 FW 41-50 WH	338	4917.7	PMC SB 4/50 GW 7 WH	338	5990.0	KHZ 10/18	371
4827.7	PMC SB 4/50 FW 51-60 WH	338	4918.7	PMC SB 4/50 GW 8 WH	338	5991.0	KHZ 10/21	371
4828.7	PMC SB 4/50 FW 61-70 WH	338	4919.7	PMC SB 4/50 GW 9 WH	338	5992.0	KHZ 20/12	371
4829.7	PMC SB 4/50 FW 71-80 WH	338	4920.7	PMC SB 4/50 GW 0 WH	338	5993.0	KHZ 20/15	371
4830.7	PMC SB 4/50 FW 81-90 WH	338	4921.7	PMC SB 4/50 GW X WH	338	5994.0	KHZ 20/18	371
4831.7	PMC SB 4/50 FW 91-100 WH	338	4922.7	PMC SB 4/50 GW PE WH	338	5995.0	KHZ 20/21	371
4832.7	PMC SB 4/50 FW 1-50 WH	338	4923.7	PMC SB 4/50 GW L1 WH	338	5996.0	KHZ 30/12	371
4833.7	PMC SB 4/50 FW 51-100 WH	338	4924.7	PMC SB 4/50 GW L2 WH	338	5997.0	KHZ 30/15	371
4834.7	PMC SB 4/50 FW 101-150 WH	338	4925.7	PMC SB 4/50 GW L3 WH	338	5998.0	KHZ 30/18	371
4835.7	PMC SB 4/50 FW 151-200 WH	338	4926.7	PMC SB 4/50 GW N WH	338	5999.0	KHZ 30/21	371
4836.7	PMC SB 4/50 FW 201-250 WH	338	4927.7	PMC SB 4/50 GW + WH	338	9000		
4837.7	PMC SB 4/50 FW 251-300 WH	338	4928.7	PMC SB 4/50 GW - WH	338	9000.7	PMC BSTR 5/36 WH	343
4838.7	PMC SB 4/50 FW 301-350 WH	338	4929.7	PMC SB 4/50 GS 1 WH	338	9001.7	PMC BSTR 5/36 So WH	343
4839.7	PMC SB 4/50 FW 351-400 WH	338	4930.7	PMC SB 4/50 GS 2 WH	338	9002.7	PMC BSTR 5/36 FW 1-12 WH	343
4840.7	PMC SB 4/50 FW 401-450 WH	338	4931.7	PMC SB 4/50 GS 3 WH	338	9003.7	PMC BSTR 5/36 FW 13-24 WH	343
4841.7	PMC SB 4/50 FW 451-500 WH	338	4932.7	PMC SB 4/50 GS 4 WH	338	9004.7	PMC BSTR 5/36 FW 25-36 WH	343
4842.7	PMC SB 4/50 FW 501-550 WH	338	4933.7	PMC SB 4/50 GS 5 WH	338	9005.7	PMC BSTR 5/36 FW 37-48 WH	343
4843.7	PMC SB 4/50 FW 551-600 WH	338	4934.7	PMC SB 4/50 GS 6 WH	338	9006.7	PMC BSTR 5/36 FW 49-60 WH	343
4844.7	PMC SB 4/50 FW 601-650 WH	338	4935.7	PMC SB 4/50 GS 7 WH	338	9007.7	PMC BSTR 5/36 FW 61-72 WH	343
4845.7	PMC SB 4/50 FW 651-700 WH	338	4936.7	PMC SB 4/50 GS 8 WH	338	9008.7	PMC BSTR 5/36 FW 73-84 WH	343
4846.7	PMC SB 4/50 FW 701-750 WH	338	4937.7	PMC SB 4/50 GS 9 WH	338	9009.7	PMC BSTR 5/36 FW 85-96 WH	343
4847.7	PMC SB 4/50 FW 751-800 WH	338	4938.7	PMC SB 4/50 GS 0 WH	338	9010.7	PMC BSTR 5/36 FW 97-108 WH	343
4848.7	PMC SB 4/50 FW 801-850 WH	338	4939.7	PMC SB 4/50 GS X WH	338	9011.7	PMC BSTR 5/36 FW 109-120 WH	343
4849.7	PMC SB 4/50 FW 851-900 WH	338	4940.7	PMC SB 4/50 GS PE WH	338	9012.7	PMC BSTR 5/36 FW 1-36 WH	343
4850.7	PMC SB 4/50 FW 901-950 WH	338	4941.7	PMC SB 4/50 GS L1 WH	338	9013.7	PMC BSTR 5/36 FW 37-72 WH	343
4851.7	PMC SB 4/50 FW L1,L2,L3,N,PE WH	338	4942.7	PMC SB 4/50 GS L2 WH	338	9014.7	PMC BSTR 5/36 FW 73-108 WH	343
4852.7	PMC SB 4/50 FW U1,V1,W1,N,PE WH	338	4943.7	PMC SB 4/50 GS L3 WH	338	9015.7	PMC BSTR 5/36 FW 109-144 WH	343
4853.7	PMC SB 4/50 FW U1,V1,W1 WH	338	4944.7	PMC SB 4/50 GS N WH	338	9016.7	PMC BSTR 5/36 FW 145-180 WH	343
4854.7	PMC SB 4/50 FW U2,V2,W2,N,PE WH	338	4945.7	PMC SB 4/50 GS - WH	338	9017.7	PMC BSTR 5/36 FW 181-216 WH	343
4855.7	PMC SB 4/50 FW U2,V2,W2 WH	338	4946.1	MC SB 4/200 GN	356	9018.7	PMC BSTR 5/36 FW 217-252 WH	343
4856.7	PMC SB 4/50 FW X1-X10 WH	338	4946.3	MC SB 4/200 OG	356	9019.7	PMC BSTR 5/36 FW 253-288 WH	343
4857.7	PMC SB 4/50 FW 1,3,5-19 WH	338	4946.5	MC SB 4/200 BU	356	9020.7	PMC BSTR 5/36 FW 289-324 WH	343
4858.7	PMC SB 4/50 FW 2,4,6-20 WH	338	4946.7	MC SB 4/200 WH	356	9021.7	PMC BSTR 5/36 FW 325-360 WH	343
4859.7	PMC SB 4/50 FS 1-10 WH	338	4946.8	MC SB 4/200 YE	356	9022.7	PMC BSTR 5/36 FW 361-396 WH	343
4860.7	PMC SB 4/50 FS 11-20 WH	338	4946.9	MC SB 4/200 RD	356	9023.7	PMC BSTR 5/36 FW 397-432 WH	343
4861.7	PMC SB 4/50 FS 21-30 WH	338	4950.0	SI 6,3x32 0,100A-T	325	9024.7	PMC BSTR 5/36 FW 433-468 WH	343
4862.7	PMC SB 4/50 FS 31-40 WH	338	4951.0	SI 6,3x32 0,125A-T	325	9025.7	PMC BSTR 5/36 FW 469-504 WH	343
4863.7	PMC SB 4/50 FS 41-50 WH	338	4952.0	SI 6,3x32 0,160A-T	325	9026.7	PMC BSTR 5/36 FW 505-540 WH	343
4864.7	PMC SB 4/50 FS 51-60 WH	338	4953.0	SI 6,3x32 0,200A-T	325	9027.7	PMC BSTR 5/36 FW 541-576 WH	343
4865.7	PMC SB 4/50 FS 61-70 WH	338	4954.0	SI 6,3x32 0,250A-T	325	9028.7	PMC BSTR 5/36 FW 577-612 WH	343
4866.7	PMC SB 4/50 FS 71-80 WH	338	4955.0	SI 6,3x32 0,315A-T	325	9029.7	PMC BSTR 5/36 FW 613-648 WH	343
4867.7	PMC SB 4/50 FS 81-90 WH	338	4956.0	SI 6,3x32 0,400A-T	325	9030.7	PMC BSTR 5/36 FW 649-684 WH	343
4868.7	PMC SB 4/50 FS 91-100 WH	338	4957.0	SI 6,3x32 0,500A-T	325	9031.7	PMC BSTR 5/36 FW L1,L2,L3,N,PE WH	343
4869.7	PMC SB 4/50 FS 1-50 WH	338	4958.0	SI 6,3x32 0,630A-T	325	9032.7	PMC BSTR 5/36 FW U1,V1,W1,N,PE WH	343
4870.7	PMC SB 4/50 FS 51-100 WH	338	4959.0	SI 6,3x32 0,800A-T	325	9033.7	PMC BSTR 5/36 FW U1,V1,W1 WH	343
4871.7	PMC SB 4/50 FS 101-150 WH	338	4960.0	SI 6,3x32 1,000A-T	325	9034.7	PMC BSTR 5/36 FW U2,V2,W2,N,PE WH	343
4872.7	PMC SB 4/50 FS 151-200 WH	338	4961.0	SI 6,3x32 1,250A-T	325	9035.7	PMC BSTR 5/36 FW U2,V2,W2 WH	343
4873.7	PMC SB 4/50 FS 201-250 WH	338	4962.0	SI 6,3x32 1,600A-T	325	9036.7	PMC BSTR 5/36 FW X1-X12 WH	343
4874.7	PMC SB 4/50 FS 251-300 WH	338	4963.0	SI 6,3x32 2,000A-T	325	9037.7	PMC BSTR 5/36 FS 1-12 WH	343
4875.7	PMC SB 4/50 FS 301-350 WH	338	4964.0	SI 6,3x32 2,500A-T	325	9038.7	PMC BSTR 5/36 FS 13-24 WH	343
4876.7	PMC SB 4/50 FS 351-400 WH	338	4965.0	SI 6,3x32 3,150A-T	325	9039.7	PMC BSTR 5/36 FS 25-36 WH	343
4877.7	PMC SB 4/50 FS 401-450 WH	338	4966.0	SI 6,3x32 4,000A-T	325	9040.7	PMC BSTR 5/36 FS 37-48 WH	343
4878.7	PMC SB 4/50 FS 451-500 WH	338	4967.0	SI 6,3x32 5,000A-T	325	9041.7	PMC BSTR 5/36 FS 49-60 WH	343
4879.7	PMC SB 4/50 FS 501-550 WH	338	4968.0	SI 6,3x32 6,300A-T	325	9042.7	PMC BSTR 5/36 FS 61-72 WH	343
4880.7	PMC SB 4/50 FS 551-600 WH	338	4969.0	SI 6,3x32 8,000A-T	325	9043.7	PMC BSTR 5/36 FS 73-84 WH	343
4881.7	PMC SB 4/50 FS 601-650 WH	338	4970.0	SI 6,3x32 10,000A-T	325	9044.7	PMC BSTR 5/36 FS 85-96 WH	343
4882.7	PMC SB 4/50 FS 651-700 WH	338	4971.0	SI 6,3x32 0,160A-F	325	9045.7	PMC BSTR 5/36 FS 97-108 WH	343
4883.7	PMC SB 4/50 FS 701-750 WH	338	4972.0	SI 6,3x32 0,200A-F	325	9046.7	PMC BSTR 5/36 FS 109-120 WH	343
4884.7	PMC SB 4/50 FS 751-800 WH	338	4973.0	SI 6,3x32 0,250A-F	325	9047.7	PMC BSTR 5/36 FS 1-36 WH	343
4885.7	PMC SB 4/50 FS 801-850 WH	338	4974.0	SI 6,3x32 0,315A-F	325	9048.7	PMC BSTR 5/36 FS 37-72 WH	343
4886.7	PMC SB 4/50 FS 851-900 WH	338	4975.0	SI 6,3x32 0,400A-F	325	9049.7	PMC BSTR 5/36 FS 73-108 WH	343
4887.7	PMC SB 4/50 FS L1,L2,L3,N,PE WH	338	4976.0	SI 6,3x32 0,500A-F	325	9050.7	PMC BSTR 5/36 FS 109-144 WH	343

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9051.7	PMC BSTR 5/36 FS 145-180 WH	343	9142.7	PMC BSTR 6/30 FW X1-X10 WH	344	9233.7	PMC SB 6/50 FW 311-320 WH	340
9052.7	PMC BSTR 5/36 FS 181-216 WH	343	9143.7	PMC BSTR 6/30 FS 1-10 WH	344	9234.7	PMC SB 6/50 FW 321-330 WH	340
9053.7	PMC BSTR 5/36 FS 217-252 WH	343	9144.7	PMC BSTR 6/30 FS 11-20 WH	344	9235.7	PMC SB 6/50 FW 331-340 WH	340
9054.7	PMC BSTR 5/36 FS 253-288 WH	343	9145.7	PMC BSTR 6/30 FS 21-30 WH	344	9236.7	PMC SB 6/50 FW 341-350 WH	340
9055.7	PMC BSTR 5/36 FS 289-324 WH	343	9146.7	PMC BSTR 6/30 FS 31-40 WH	344	9237.7	PMC SB 6/50 FW 351-360 WH	340
9056.7	PMC BSTR 5/36 FS 325-360 WH	343	9147.7	PMC BSTR 6/30 FS 41-50 WH	344	9238.7	PMC SB 6/50 FW 361-370 WH	340
9057.7	PMC BSTR 5/36 FS 361-396 WH	343	9148.7	PMC BSTR 6/30 FS 51-60 WH	344	9239.7	PMC SB 6/50 FW 371-380 WH	340
9058.7	PMC BSTR 5/36 FS 397-432 WH	343	9149.7	PMC BSTR 6/30 FS 61-70 WH	344	9240.7	PMC SB 6/50 FW 381-390 WH	340
9059.7	PMC BSTR 5/36 FS 433-468 WH	343	9150.7	PMC BSTR 6/30 FS 71-80 WH	344	9241.7	PMC SB 6/50 FW 391-400 WH	340
9060.7	PMC BSTR 5/36 FS 469-504 WH	343	9151.7	PMC BSTR 6/30 FS 81-90 WH	344	9242.7	PMC SB 6/50 FW 401-410 WH	340
9061.7	PMC BSTR 5/36 FS 505-540 WH	343	9152.7	PMC BSTR 6/30 FS 91-100 WH	344	9243.7	PMC SB 6/50 FW 411-420 WH	340
9062.7	PMC BSTR 5/36 FS 541-576 WH	343	9153.7	PMC BSTR 6/30 FS 1-30 WH	344	9244.7	PMC SB 6/50 FW 421-430 WH	340
9063.7	PMC BSTR 5/36 FS 577-612 WH	343	9154.7	PMC BSTR 6/30 FS 31-60 WH	344	9245.7	PMC SB 6/50 FW 431-440 WH	340
9064.7	PMC BSTR 5/36 FS 613-648 WH	343	9155.7	PMC BSTR 6/30 FS 61-90 WH	344	9246.7	PMC SB 6/50 FW 441-450 WH	340
9065.7	PMC BSTR 5/36 FS L1,L2,L3,N,PE WH	343	9156.7	PMC BSTR 6/30 FS 91-120 WH	344	9247.7	PMC SB 6/50 FW 451-460 WH	340
9066.7	PMC BSTR 5/36 FS U1,V1,W1,N,PE WH	343	9157.7	PMC BSTR 6/30 FS 121-150 WH	344	9248.7	PMC SB 6/50 FW 461-470 WH	340
9067.7	PMC BSTR 5/36 FS U1,V1,W1 WH	343	9158.7	PMC BSTR 6/30 FS 151-180 WH	344	9249.7	PMC SB 6/50 FW 471-480 WH	340
9068.7	PMC BSTR 5/36 FS U2,V2,W2, N, PE WH	343	9159.7	PMC BSTR 6/30 FS 181-210 WH	344	9250.7	PMC SB 6/50 FW 481-490 WH	340
9069.7	PMC BSTR 5/36 FS U2,V2,W2 WH	343	9160.7	PMC BSTR 6/30 FS 211-240 WH	344	9251.7	PMC SB 6/50 FW 491-500 WH	340
9070.7	PMC BSTR 5/36 FS X1-X12 WH	343	9161.7	PMC BSTR 6/30 FS 241-270 WH	344	9252.7	PMC SB 6/50 FW 501-510 WH	340
9071.7	PMC BSTR 5/36 GW 1 WH	343	9162.7	PMC BSTR 6/30 FS 271-300 WH	344	9253.7	PMC SB 6/50 FW 511-520 WH	340
9072.7	PMC BSTR 5/36 GW 2 WH	343	9163.7	PMC BSTR 6/30 FS 301-330 WH	344	9254.7	PMC SB 6/50 FW 521-530 WH	340
9073.7	PMC BSTR 5/36 GW 3 WH	343	9164.7	PMC BSTR 6/30 FS 331-360 WH	344	9255.7	PMC SB 6/50 FW 531-540 WH	340
9074.7	PMC BSTR 5/36 GW 4 WH	343	9165.7	PMC BSTR 6/30 FS 361-390 WH	344	9256.7	PMC SB 6/50 FW 541-550 WH	340
9075.7	PMC BSTR 5/36 GW 5 WH	343	9166.7	PMC BSTR 6/30 FS 391-420 WH	344	9257.7	PMC SB 6/50 FW 551-560 WH	340
9076.7	PMC BSTR 5/36 GW 6 WH	343	9167.7	PMC BSTR 6/30 FS 421-450 WH	344	9258.7	PMC SB 6/50 FW 561-570 WH	340
9077.7	PMC BSTR 5/36 GW 7 WH	343	9168.7	PMC BSTR 6/30 FS 451-480 WH	344	9259.7	PMC SB 6/50 FW 571-580 WH	340
9078.7	PMC BSTR 5/36 GW 8 WH	343	9169.7	PMC BSTR 6/30 FS 481-510 WH	344	9260.7	PMC SB 6/50 FW 581-590 WH	340
9079.7	PMC BSTR 5/36 GW 9 WH	343	9170.7	PMC BSTR 6/30 FS 511-540 WH	344	9261.7	PMC SB 6/50 FW 591-600 WH	340
9080.7	PMC BSTR 5/36 GW 0 WH	343	9171.7	PMC BSTR 6/30 FS L1,L2,L3,N,PE WH	344	9262.7	PMC SB 6/50 FS 101-110 WH	340
9081.7	PMC BSTR 5/36 GW X WH	343	9172.7	PMC BSTR 6/30 FS U1,V1,W1,N,PE WH	344	9263.7	PMC SB 6/50 FS 111-120 WH	340
9082.7	PMC BSTR 5/36 GW PE WH	343	9173.7	PMC BSTR 6/30 FS U1,V1,W1 WH	344	9264.7	PMC SB 6/50 FS 121-130 WH	340
9083.7	PMC BSTR 5/36 GW L1 WH	343	9174.7	PMC BSTR 6/30 FS U2,V2,W2,N,PE WH	344	9265.7	PMC SB 6/50 FS 131-140 WH	340
9084.7	PMC BSTR 5/36 GW L2 WH	343	9175.7	PMC BSTR 6/30 FS U2,V2,W2 WH	344	9266.7	PMC SB 6/50 FS 141-150 WH	340
9085.7	PMC BSTR 5/36 GW L3 WH	343	9176.7	PMC BSTR 6/30 FS X1-X10 WH	344	9267.7	PMC SB 6/50 FS 151-160 WH	340
9086.7	PMC BSTR 5/36 GW N WH	343	9177.7	PMC BSTR 6/30 GW 1 WH	344	9268.7	PMC SB 6/50 FS 161-170 WH	340
9087.7	PMC BSTR 5/36 GW + WH	343	9178.7	PMC BSTR 6/30 GW 2 WH	344	9269.7	PMC SB 6/50 FS 171-180 WH	340
9088.7	PMC BSTR 5/36 GW - WH	343	9179.7	PMC BSTR 6/30 GW 3 WH	344	9270.7	PMC SB 6/50 FS 181-190 WH	340
9089.7	PMC BSTR 5/36 GS 1 WH	343	9180.7	PMC BSTR 6/30 GW 4 WH	344	9271.7	PMC SB 6/50 FS 191-200 WH	340
9090.7	PMC BSTR 5/36 GS 2 WH	343	9181.7	PMC BSTR 6/30 GW 5 WH	344	9272.7	PMC SB 6/50 FS 201-210 WH	340
9091.7	PMC BSTR 5/36 GS 3 WH	343	9182.7	PMC BSTR 6/30 GW 6 WH	344	9273.7	PMC SB 6/50 FS 211-220 WH	340
9092.7	PMC BSTR 5/36 GS 4 WH	343	9183.7	PMC BSTR 6/30 GW 7 WH	344	9274.7	PMC SB 6/50 FS 221-230 WH	341
9093.7	PMC BSTR 5/36 GS 5 WH	343	9184.7	PMC BSTR 6/30 GW 8 WH	344	9275.7	PMC SB 6/50 FS 231-240 WH	341
9094.7	PMC BSTR 5/36 GS 6 WH	343	9185.7	PMC BSTR 6/30 GW 9 WH	344	9276.7	PMC SB 6/50 FS 241-250 WH	341
9095.7	PMC BSTR 5/36 GS 7 WH	343	9186.7	PMC BSTR 6/30 GW 0 WH	344	9277.7	PMC SB 6/50 FS 251-260 WH	341
9096.7	PMC BSTR 5/36 GS 8 WH	343	9187.7	PMC BSTR 6/30 GW X WH	344	9278.7	PMC SB 6/50 FS 261-270 WH	341
9097.7	PMC BSTR 5/36 GS 9 WH	343	9188.7	PMC BSTR 6/30 GW PE WH	344	9279.7	PMC SB 6/50 FS 271-280 WH	341
9098.7	PMC BSTR 5/36 GS 0 WH	343	9189.7	PMC BSTR 6/30 GW L1 WH	344	9280.7	PMC SB 6/50 FS 281-290 WH	341
9099.7	PMC BSTR 5/36 GS X WH	343	9190.7	PMC BSTR 6/30 GW L2 WH	344	9281.7	PMC SB 6/50 FS 291-300 WH	341
9100			9191.7	PMC BSTR 6/30 GW L3 WH	344	9286.7	PMC SB 8/40 FS 1-40 WH	342
9100.7	PMC BSTR 5/36 GS PE WH	343	9192.7	PMC BSTR 6/30 GW N WH	344	9287.7	PMC SB 8/40 FS 41-80 WH	342
9101.7	PMC BSTR 5/36 GS L1 WH	343	9193.7	PMC BSTR 6/30 GW + WH	344	9288.7	PMC SB 8/40 FS 81-120 WH	342
9102.7	PMC BSTR 5/36 GS L2 WH	343	9194.7	PMC BSTR 6/30 GW - WH	344	9289.7	PMC SB 8/40 FW 1-40 WH	342
9103.7	PMC BSTR 5/36 GS L3 WH	343	9195.7	PMC BSTR 6/30 GS 1 WH	344	9290.7	PMC SB 8/40 FW 41-80 WH	342
9104.7	PMC BSTR 5/36 GS N WH	343	9196.7	PMC BSTR 6/30 GS 2 WH	344	9291.7	PMC SB 8/40 FW 81-120 WH	342
9105.7	PMC BSTR 5/36 GS - WH	343	9197.7	PMC BSTR 6/30 GS 3 WH	344	9292.7	PMC SB 8/40 FW 1-8 WH	342
9106.7	PMC BSTR 6/30 WH	344	9198.7	PMC BSTR 6/30 GS 4 WH	344	9293.7	PMC SB 8/40 FW 9-16 WH	342
9107.7	PMC BSTR 6/30 So WH	344	9199.7	PMC BSTR 6/30 GS 5 WH	344	9294.7	PMC SB 8/40 FW 17-24 WH	342
9108.7	PMC BSTR 6/30 FW 1-10 WH	344	9200			9295.7	PMC SB 8/40 FW 25-32 WH	342
9109.7	PMC BSTR 6/30 FW 11-20 WH	344	9200.7	PMC BSTR 6/30 GS 6 WH	344	9296.7	PMC SB 8/40 FW 33-40 WH	342
9110.7	PMC BSTR 6/30 FW 21-30 WH	344	9201.7	PMC BSTR 6/30 GS 7 WH	344	9297.7	PMC SB 8/40 FW 41-48 WH	342
9111.7	PMC BSTR 6/30 FW 31-40 WH	344	9202.7	PMC BSTR 6/30 GS 8 WH	344	9298.7	PMC SB 8/40 FW 57-64 WH	342
9112.7	PMC BSTR 6/30 FW 41-50 WH	344	9203.7	PMC BSTR 6/30 GS 9 WH	344	9299.7	PMC SB 8/40 FW 65-72 WH	342
9113.7	PMC BSTR 6/30 FW 51-60 WH	344	9204.7	PMC BSTR 6/30 GS 0 WH	344	9300		
9114.7	PMC BSTR 6/30 FW 61-70 WH	344	9205.7	PMC BSTR 6/30 GS X WH	344	9300.7	PMC SB 8/40 FW 73-80 WH	342
9115.7	PMC BSTR 6/30 FW 71-80 WH	344	9206.7	PMC BSTR 6/30 GS PE WH	344	9301.7	PMC SB 8/40 FW 81-88 WH	342
9116.7	PMC BSTR 6/30 FW 81-90 WH	344	9207.7	PMC BSTR 6/30 GS L1 WH	344	9302.7	PMC SB 8/40 FW 89-96 WH	342
9117.7	PMC BSTR 6/30 FW 91-100 WH	344	9208.7	PMC BSTR 6/30 GS L2 WH	344	9303.7	PMC SB 8/40 FW 97-104 WH	342
9118.7	PMC BSTR 6/30 FW 1-30 WH	344	9209.7	PMC BSTR 6/30 GS L3 WH	344	9304.7	PMC SB 8/40 FW 105-112 WH	342
9119.7	PMC BSTR 6/30 FW 31-60 WH	344	9210.7	PMC BSTR 6/30 GS N WH	344	9305.7	PMC SB 8/40 FW 49-56 WH	342
9120.7	PMC BSTR 6/30 FW 61-90 WH	344	9211.7	PMC BSTR 6/30 GS - WH	344	9306.7	PMC SB 8/40 FW 113-120 WH	342
9121.7	PMC BSTR 6/30 FW 91-120 WH	344	9212.7	PMC SB 6/50 FW 101-110 WH	340	9307.7	PMC SB 8/40 FS 1-8 WH	342
9122.7	PMC BSTR 6/30 FW 121-150 WH	344	9213.7	PMC SB 6/50 FW 111-120 WH	340	9308.7	PMC SB 8/40 FS 9-16 WH	342
9123.7	PMC BSTR 6/30 FW 151-180 WH	344	9214.7	PMC SB 6/50 FW 121-130 WH	340	9309.7	PMC SB 8/40 FS 17-24 WH	342
9124.7	PMC BSTR 6/30 FW 181-210 WH	344	9215.7	PMC SB 6/50 FW 131-140 WH	340	9310.7	PMC SB 8/40 FS 25-32 WH	342
9125.7	PMC BSTR 6/30 FW 211-240 WH	344	9216.7	PMC SB 6/50 FW 141-150 WH	340	9311.7	PMC SB 8/40 FS 33-40 WH	342
9126.7	PMC BSTR 6/30 FW 241-270 WH	344	9217.7	PMC SB 6/50 FW 151-160 WH	340	9312.7	PMC SB 8/40 FS 41-48 WH	342
9127.7	PMC BSTR 6/30 FW 271-300 WH	344	9218.7	PMC SB 6/50 FW 161-170 WH	340	9313.7	PMC SB 8/40 FS 49-56 WH	342
9128.7	PMC BSTR 6/30 FW 301-330 WH	344	9219.7	PMC SB 6/50 FW 171-180 WH	340	9314.7	PMC SB 8/40 FS 57-64 WH	342
9129.7	PMC BSTR 6/30 FW 331-360 WH	344	9220.7	PMC SB 6/50 FW 181-190 WH	340	9315.7	PMC SB 8/40 FS 65-72 WH	342
9130.7	PMC BSTR 6/30 FW 361-390 WH	344	9221.7	PMC SB 6/50 FW 191-200 WH	340	9316.7	PMC SB 8/40 FS 73-80 WH	342
9131.7	PMC BSTR 6/30 FW 391-420 WH	344	9222.7	PMC SB 6/50 FW 201-210 WH	340	9317.7	PMC SB 8/40 FS 81-88 WH	342
9132.7	PMC BSTR 6/30 FW 421-450 WH	344	9223.7	PMC SB 6/50 FW 211-220 WH	340	9318.7	PMC SB 8/40 FS 89-96 WH	342
9133.7	PMC BSTR 6/30 FW 451-480 WH	344	9224.7	PMC SB 6/50 FW 221-230 WH	340	9319.7	PMC SB 8/40 FS 97-104 WH	342
9134.7	PMC BSTR 6/30 FW 481-510 WH	344	9225.7	PMC SB 6/50 FW 231-240 WH	340	9320.7	PMC SB 8/40 FS 105-112 WH	342
9135.7	PMC BSTR 6/30 FW 511-540 WH	344	9226.7	PMC SB 6/50 FW 241-250 WH	340	9321.7	PMC SB 8/40 FS 113-120 WH	342
9136.7	PMC BSTR 6/30 FW 541-570 WH	344	9227.7	PMC SB 6/50 FW 251-260 WH	340	9322.7	PMC SB 8/40 So WH	342
9137.7	PMC BSTR 6/30 FW L1,L2,L3,N,PE WH	344	9228.7	PMC SB 6/50 FW 261-270 WH	340	9323.7	PMC SB 8/40 WH	342
9138.7	PMC BSTR 6/30 FW U1,V1,W1,N,PE WH	344	9229.7	PMC SB 6/50 FW 271-280 WH	340	9324.7	PMC BSTR 5/36 MI WH	343
9139.7	PMC BSTR 6/30 FW U1,V1,W1 WH	344	9230.7	PMC SB 6/50 FW 281-290 WH	340	9325.7	PMC BSTR 5/36 MI So WH	343
9140.7	PMC BSTR 6/30 FW U2,V2,W2,N,PE WH	344	9231.7	PMC SB 6/50 FW 291-300 WH	340	9326.7	PMC SB7,5/40 So WH	341
9141.7	PMC BSTR 6/30 FW U2,V2,W2 WH	344	9232.7	PMC SB 6/50 FW 301-310 WH	340	9327.1	MC SB 7,5/160 So GN	357

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9327.3	MC SB 7,5/160 So OG	357	9433.7	PMC BSTR 10x12/10 WH	346	9480.0004	SB 8/8 FW X4;Y4;Z4 WH	352
9327.5	MC SB 7,5/160 So BU	357	9434.7	PMC BSTR 10x12/10 So WH	346	9480.0005	SB 8/8 FW X5;Y5;Z5 WH	352
9327.7	MC SB 7,5/160 So BU	357	9435.7	PMC BSTR 10x12/10 print/standard WH	346	9480.0006	SB 8/8 FW X6;Y6;Z6 WH	352
9327.8	MC SB 7,5/160 So YE	357	9436.7	PMC BSTR 10x12/10 FW 1-10 WH	346	9480.0007	SB 8/8 FW X7;Y7;Z7 WH	352
9327.9	MC SB 7,5/160 So RD	357	9437.7	PMC BSTR 10x12/10 FW 11-20 WH	346	9480.0008	SB 8/8 FW X8;Y8;Z8 WH	352
9360.0	KH E 0,5/12	372	9438.7	PMC BSTR 10x12/10 FW 21-30 WH	346	9480.0009	SB 8/8 FW X9;Y9;Z9 WH	352
9361.0	KH E 0,5/15	372	9439.7	PMC BSTR 10x12/10 FW 31-40 WH	346	9480.0010	SB 8/8 FW X10;Y10;Z10 WH	352
9362.0	KH E 0,5/18	372	9440.7	PMC BSTR 10x12/10 FW 41-50 WH	346	9480.0011	SB 8/8 FW R1;S1;T1 WH	352
9363.0	KH E 0,5/21	372	9441.7	PMC BSTR 10x12/10 FW 1-40 WH	346	9480.0012	SB 8/8 FW R2;S2;T2 WH	352
9364.0	KH E 0,5/30	372	9442.7	PMC BSTR 10x12/10 FW 41-80 WH	346	9480.0013	SB 8/8 FW R3;S3;T3 WH	352
9365.0	KH E 2,5/12	372	9443.7	PMC BSTR 10x12/10 FW 81-120 WH	346	9480.0014	SB 8/8 FW R4;S4;T4 WH	352
9366.0	KH E 2,5/15	372	9444.7	PMC BSTR 10x12/10 FW 1-100 WH	346	9480.0015	SB 8/8 FW R5;S5;T5 WH	352
9367.0	KH E 2,5/18	372	9445.7	PMC BSTR 10x12/10 FW L1,L2,L3,N,PE WH	346	9480.0016	SB 8/8 FW R6;S6;T6 WH	352
9368.0	KH E 2,5/21	372	9446.7	PMC BSTR 10x12/10 FS 1-10 WH	346	9480.0017	SB 8/8 FW R7;S7;T7 WH	352
9369.0	KH E 2,5/30	372	9447.7	PMC BSTR 10x12/10 FS 11-20 WH	346	9480.0018	SB 8/8 FW R8;S8;T8 WH	352
9370.0	KH E 4,0/12	372	9448.7	PMC BSTR 10x12/10 FS 21-30 WH	346	9480.0019	SB 8/8 FW R9;S9;T9 WH	352
9371.0	KH E 4,0/15	372	9449.7	PMC BSTR 10x12/10 FS 31-40 WH	346	9480.0020	SB 8/8 FW R10;S10;T10 WH	352
9372.0	KH E 4,0/18	372	9450.7	PMC BSTR 10x12/10 FS 41-50 WH	346	9480.0021	SB 8/8 FW U1;V1;W1 WH	352
9373.0	KH E 4,0/21	372	9451.7	PMC BSTR 10x12/10 FS 1-40 WH	346	9480.0022	SB 8/8 FW U2;V2;W2 WH	352
9374.0	KH E 4,0/30	372	9452.7	PMC BSTR 10x12/10 FS 41-80 WH	346	9480.0023	SB 8/8 FW U3;V3;W3 WH	352
9375.0	KH E 10,0/12	373	9453.7	PMC BSTR 10x12/10 FS 81-120 WH	346	9480.0024	SB 8/8 FW U4;V4;W4 WH	352
9376.0	KH E 10,0/15	373	9454.7	PMC BSTR 10x12/10 FS 1-100 WH	346	9480.0025	SB 8/8 FW U5;V5;W5 WH	352
9377.0	KH E 10,0/18	373	9455.7	PMC BSTR 10x12/10 FS L1,L2,L3,N,PE WH	346	9480.0026	SB 8/8 FW U6;V6;W6 WH	352
9378.0	KH E 10,0/21	373	9476.0001	SB 8/8 FW 1-8 WH	352	9480.0027	SB 8/8 FW U7;V7;W7 WH	352
9379.0	KH E 10,0/30	373	9476.0002	SB 8/8 FW 9-16 WH	352	9480.0028	SB 8/8 FW U8;V8;W8 WH	352
9380.0	KH E 25,0/12	373	9476.0003	SB 8/8 FW 17-24 WH	352	9480.0029	SB 8/8 FW U9;V9;W9 WH	352
9381.0	KH E 25,0/15	373	9476.0004	SB 8/8 FW 25-32 WH	352	9480.0030	SB 8/8 FW U10;V10;W10 WH	352
9382.0	KH E 25,0/18	373	9476.0005	SB 8/8 FW 33-40 WH	352	9481.0001	SB 8/8 FW U;V;W;N;PE WH	352
9383.0	KH E 25,0/21	373	9476.0006	SB 8/8 FW 41-48 WH	352	9481.0002	SB 8/8 FW R;S;T;N;Earth with circuit WH	352
9384.0	KH E 25,0/30	373	9476.0007	SB 8/8 FW 49-56 WH	352	9481.0003	SB 8/8 FW L1;L2;L3;N;PE WH	352
9385.0	KH E 70,0/12	373	9476.0008	SB 8/8 FW 57-64 WH	352	9481.0004	SB 8/8 FW L1;L2;L3;N;Earth with circuit WH	352
9386.0	KH E 70,0/15	373	9476.0009	SB 8/8 FW 65-72 WH	352	9482.0001	SB 8/8 FS X1;Y1;Z1 WH	352
9387.0	KH E 70,0/18	373	9476.0010	SB 8/8 FW 73-80 WH	352	9482.0002	SB 8/8 FS X2;Y2;Z2 WH	352
9388.0	KH E 70,0/21	373	9476.0011	SB 8/8 FW 81-88 WH	352	9482.0003	SB 8/8 FS X3;Y3;Z3 WH	352
9389.0	KH E 70,0/30	373	9476.0012	SB 8/8 FW 89-96 WH	352	9482.0004	SB 8/8 FS X4;Y4;Z4 WH	352
9390.0	KH 02/30	370	9476.0013	SB 8/8 FW 97-104 WH	352	9482.0005	SB 8/8 FS X5;Y5;Z5 WH	352
9391.0	KH 10/30	370	9476.0014	SB 8/8 FW 105-112 WH	352	9482.0006	SB 8/8 FS X6;Y6;Z6 WH	352
9392.0	KH 20/30	370	9476.0015	SB 8/8 FW 113-120 WH	352	9482.0007	SB 8/8 FS X7;Y7;Z7 WH	352
9393.0	KH 30/30	371	9477.0001	SB 8/8 FS 1-8 WH	352	9482.0008	SB 8/8 FS X8;Y8;Z8 WH	352
9400			9477.0002	SB 8/8 FS 9-16 WH	352	9482.0009	SB 8/8 FS X9;Y9;Z9 WH	352
9400.7	MC MM 5x5/200 WH	362	9477.0003	SB 8/8 FS 17-24 WH	352	9482.0010	SB 8/8 FS X10;Y10;Z10 WH	352
9401.7	MC MM 5x5/200 So WH	362	9477.0004	SB 8/8 FS 25-32 WH	352	9482.0011	SB 8/8 FS R1;S1;T1 WH	352
9402.7	MC MM 6x5/200 WH	363	9477.0005	SB 8/8 FS 33-40 WH	352	9482.0012	SB 8/8 FS R2;S2;T2 WH	352
9403.7	MC MM 6x5/200 So WH	363	9477.0006	SB 8/8 FS 41-48 WH	352	9482.0013	SB 8/8 FS R3;S3;T3 WH	352
9404.7	MC MM 8x5/160 WH	363	9477.0007	SB 8/8 FS 49-56 WH	352	9482.0014	SB 8/8 FS R4;S4;T4 WH	352
9405.7	MC MM 8x5/160 So WH	363	9477.0008	SB 8/8 FS 57-64 WH	352	9482.0015	SB 8/8 FS R5;S5;T5 WH	352
9406.1	MC BSTR 8x12/84 GN	358	9477.0009	SB 8/8 FS 65-72 WH	352	9482.0016	SB 8/8 FS R6;S6;T6 WH	352
9406.3	MC BSTR 8x12/84 OG	358	9477.0010	SB 8/8 FS 73-80 WH	352	9482.0017	SB 8/8 FS R7;S7;T7 WH	352
9406.5	MC BSTR 8x12/84 BU	358	9477.0011	SB 8/8 FS 81-88 WH	352	9482.0018	SB 8/8 FS R8;S8;T8 WH	352
9406.7	MC BSTR 8x12/84 WH	358	9477.0012	SB 8/8 FS 89-96 WH	352	9482.0019	SB 8/8 FS R9;S9;T9 WH	352
9406.8	MC BSTR 8x12/84 YE	358	9477.0013	SB 8/8 FS 97-104 WH	352	9482.0020	SB 8/8 FS R10;S10;T10 WH	352
9406.9	MC BSTR 8x12/84 RD	358	9477.0014	SB 8/8 FS 105-112 WH	352	9482.0021	SB 8/8 FS U1;V1;W1 WH	352
9407.1	MC BSTR 8x12/84 So GN	358	9477.0015	SB 8/8 FS 113-120 WH	352	9482.0022	SB 8/8 FS U2;V2;W2 WH	352
9407.3	MC BSTR 8x12/84 So OG	358	9478.0000	SB 8/8 GW 0 WH	352	9482.0023	SB 8/8 FS U3;V3;W3 WH	352
9407.5	MC BSTR 8x12/84 So BU	358	9478.0001	SB 8/8 GW 1 WH	352	9482.0024	SB 8/8 FS U4;V4;W4 WH	352
9407.7	MC BSTR 8x12/84 So WH	358	9478.0002	SB 8/8 GW 2 WH	352	9482.0025	SB 8/8 FS U5;V5;W5 WH	352
9407.8	MC BSTR 8x12/84 So YE	358	9478.0003	SB 8/8 GW 3 WH	352	9482.0026	SB 8/8 FS U6;V6;W6 WH	352
9407.9	MC BSTR 8x12/84 So RD	358	9478.0004	SB 8/8 GW 4 WH	352	9482.0027	SB 8/8 FS U7;V7;W7 WH	352
9408.1	MC BSTR 10x12/40 GN	358	9478.0005	SB 8/8 GW 5 WH	352	9482.0028	SB 8/8 FS U8;V8;W8 WH	352
9408.3	MC BSTR 10x12/40 OG	358	9478.0006	SB 8/8 GW 6 WH	352	9482.0029	SB 8/8 FS U9;V9;W9 WH	352
9408.5	MC BSTR 10x12/40 BU	358	9478.0007	SB 8/8 GW 7 WH	352	9482.0030	SB 8/8 FS U10;V10;W10 WH	352
9408.7	MC BSTR 10x12/40 WH	358	9478.0008	SB 8/8 GW 8 WH	352	9483.0001	SB 8/8 FS U;V;W;N;PE WH	352
9408.8	MC BSTR 10x12/40 YE	358	9478.0009	SB 8/8 GW 9 WH	352	9483.0002	SB 8/8 FS R;S;T;N;Earth with circuit WH	352
9408.9	MC BSTR 10x12/40 RD	358	9478.0010	SB 8/8 GW X WH	352	9483.0003	SB 8/8 FS L1;L2;L3;N;PE WH	352
9409.4	MC BSTR 10x12/40 So GN	358	9478.0011	SB 8/8 GW PE WH	352	9483.0004	SB 8/8 FS L1;L2;L3;N;Earth with circuit WH	352
9409.5	MC BSTR 10x12/40 So OG	358	9478.0012	SB 8/8 GW L1 WH	352	9484.0001	SB 8/8 GW A WH	352
9409.6	MC BSTR 10x12/40 So BU	358	9478.0013	SB 8/8 GW L2 WH	352	9484.0002	SB 8/8 GW B WH	352
9409.7	MC BSTR 10x12/40 So WH	358	9478.0014	SB 8/8 GW L3 WH	352	9484.0003	SB 8/8 GW C WH	352
9409.8	MC BSTR 10x12/40 So YE	358	9478.0015	SB 8/8 GW N WH	352	9484.0004	SB 8/8 GW D WH	352
9409.9	MC BSTR 10x12/40 So RD	358	9478.0016	SB 8/8 GW + WH	352	9484.0005	SB 8/8 GW E WH	352
9410.7	PMC BSTR 8x12/21 WH	345	9478.0017	SB 8/8 GW - WH	352	9484.0006	SB 8/8 GW F WH	352
9411.7	PMC BSTR 8x12/21 So WH	345	9479.0000	SB 8/8 GS 0 WH	353	9484.0007	SB 8/8 GW G WH	352
9413.7	PMC BSTR 8x12/21 FW 1-21 WH	345	9479.0001	SB 8/8 GS 1 WH	353	9484.0008	SB 8/8 GW H WH	352
9414.7	PMC BSTR 8x12/21 FW 22-42 WH	345	9479.0002	SB 8/8 GS 2 WH	353	9484.0009	SB 8/8 GW I WH	352
9415.7	PMC BSTR 8x12/21 FW 43-63 WH	345	9479.0003	SB 8/8 GS 3 WH	353	9484.0010	SB 8/8 GW J WH	352
9416.7	PMC BSTR 8x12/21 FW 64-84 WH	345	9479.0004	SB 8/8 GS 4 WH	353	9484.0011	SB 8/8 GW K WH	352
9417.7	PMC BSTR 8x12/21 FW 84-105 WH	345	9479.0005	SB 8/8 GS 5 WH	353	9484.0012	SB 8/8 GW L WH	352
9418.7	PMC BSTR 8x12/21 FW 1-42 WH	345	9479.0006	SB 8/8 GS 6 WH	353	9484.0013	SB 8/8 GW M WH	352
9419.7	PMC BSTR 8x12/21 FW 43-84 WH	345	9479.0007	SB 8/8 GS 7 WH	353	9484.0014	SB 8/8 GW N WH	352
9420.7	PMC BSTR 8x12/21 FW 1-105 WH	345	9479.0008	SB 8/8 GS 8 WH	353	9484.0015	SB 8/8 GW O WH	352
9421.7	PMC BSTR 8x12/21 FW 106-210 WH	345	9479.0009	SB 8/8 GS 9 WH	353	9484.0016	SB 8/8 GW P WH	352
9422.7	PMC BSTR 8x12/21 FW L1,L2,L3,N,PE WH	345	9479.0010	SB 8/8 GS X WH	353	9484.0017	SB 8/8 GW Q WH	352
9423.7	PMC BSTR 8x12/21 FS 1-21 WH	345	9479.0011	SB 8/8 GS PE WH	353	9484.0018	SB 8/8 GW R WH	352
9424.7	PMC BSTR 8x12/21 FS 22-42 WH	345	9479.0012	SB 8/8 GS L1 WH	353	9484.0019	SB 8/8 GW S WH	352
9425.7	PMC BSTR 8x12/21 FS 43-63 WH	345	9479.0013	SB 8/8 GS L2 WH	353	9484.0020	SB 8/8 GW T WH	352
9426.7	PMC BSTR 8x12/21 FS 64-84 WH	345	9479.0014	SB 8/8 GS L3 WH	353	9484.0021	SB 8/8 GW U WH	352
9427.7	PMC BSTR 8x12/21 FS 85-105 WH	345	9479.0015	SB 8/8 GS N WH	353	9484.0022	SB 8/8 GW V WH	352
9428.7	PMC BSTR 8x12/21 FS 1-42 WH	345	9479.0016	SB 8/8 GS + WH	353	9484.0023	SB 8/8 GW W WH	352
9429.7	PMC BSTR 8x12/21 FS 43-84 WH	345	9479.0017	SB 8/8 GS - WH	353	9484.0024	SB 8/8 GW X WH	352
9430.7	PMC BSTR 8x12/21 FS 1-105 WH	345	9480.0001	SB 8/8 FW X1;Y1;Z1 WH	352	9484.0025	SB 8/8 GW Y WH	352
9431.7	PMC BSTR 8x12/21 FS 106-210 WH	345	9480.0002	SB 8/8 FW X2;Y2;Z2 WH	352	9484.0026	SB 8/8 GW Z WH	352
9432.7	PMC BSTR 8x12/21 FS L1,L2,L3,N,PE WH	345	9480.0003	SB 8/8 FW X3;Y3;Z3 WH	352	9484.0027	SB 8/8 GW PE WH	352

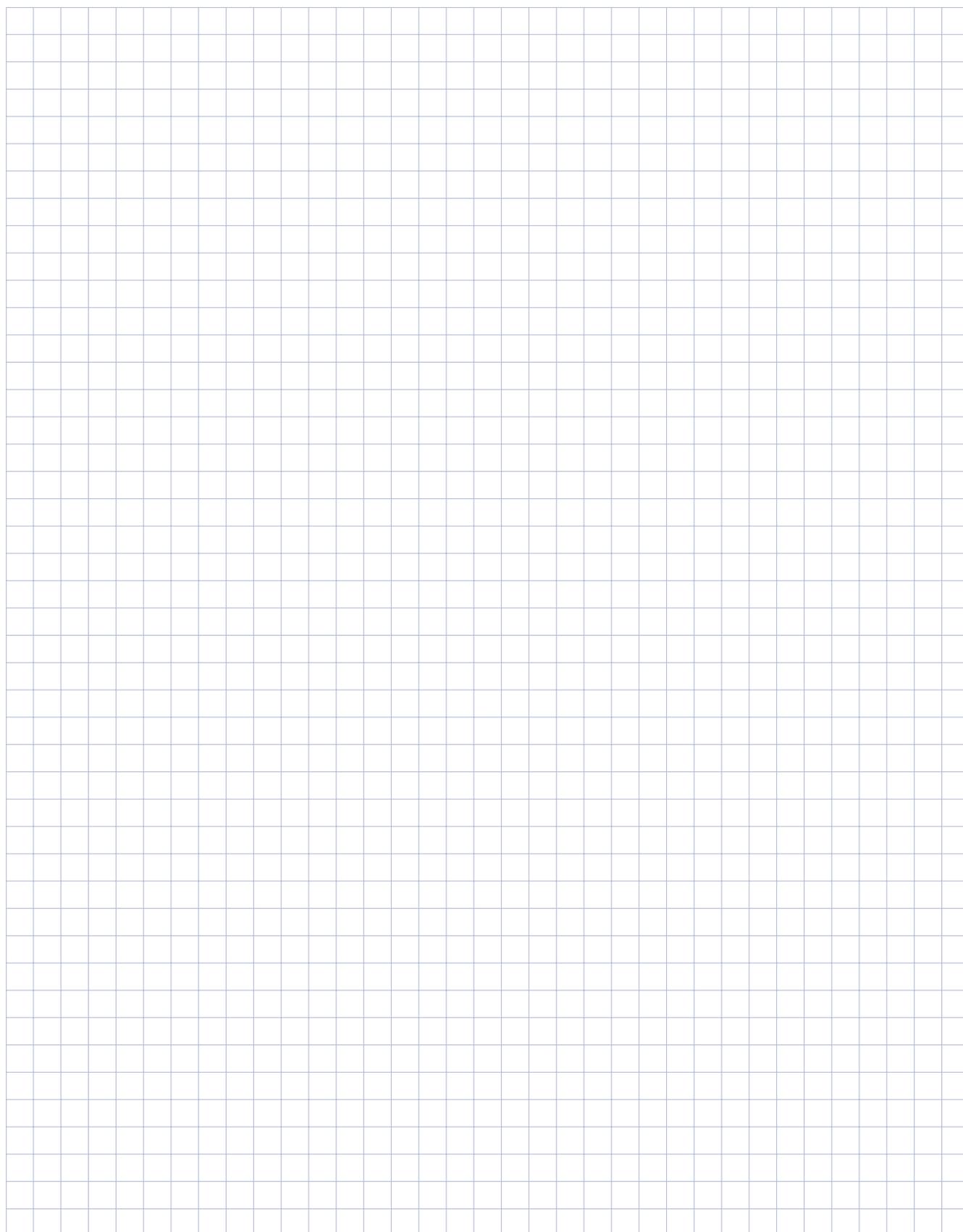
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9484.0029	SB 8/8 GW MP WH	352	11231.1	PKB 950/3/5,08 GN	104	11344.1	PKB 1110/7/5,08 GN	136
9484.0030	SB 8/8 GW SL WH	352	11231.1	PKB 950/3/5,08 GN	135	11345.1	PKB 1110/8/5,08 GN	105
9484.0031	SB 8/8 GW T1 WH	352	11231.1	PKB 950/3/5,08 GN	183	11345.1	PKB 1110/8/5,08 GN	136
9484.0032	SB 8/8 GW T2 WH	352	11232.1	PKB 950/4/5,08 GN	104	11346.1	PKB 1110/9/5,08 GN	105
9484.0033	SB 8/8 GW T3 WH	352	11232.1	PKB 950/4/5,08 GN	135	11346.1	PKB 1110/9/5,08 GN	136
9484.0034	SB 8/8 GW + WH	353	11232.1	PKB 950/4/5,08 GN	183	11347.1	PKB 1110/10/5,08 GN	105
9484.0035	SB 8/8 GW - WH	353	11233.1	PKB 950/5/5,08 GN	104	11347.1	PKB 1110/10/5,08 GN	136
9484.0036	SB 8/8 GW ~ WH	353	11233.1	PKB 950/5/5,08 GN	135	11348.1	PKB 1110/11/5,08 GN	105
9484.0037	SB 8/8 GW Earth WH	353	11233.1	PKB 950/5/5,08 GN	183	11349.1	PKB 1110/12/5,08 GN	105
9484.0038	SB 8/8 GW Earth with circuit WH	353	11234.1	PKB 950/6/5,08 GN	104	11350.1	PKB 1110/13/5,08 GN	105
9485.0001	SB 8/8 GS A WH	353	11234.1	PKB 950/6/5,08 GN	135	11351.1	PKB 1110/14/5,08 GN	105
9485.0002	SB 8/8 GS B WH	353	11234.1	PKB 950/6/5,08 GN	183	11352.1	PKB 1110/15/5,08 GN	105
9485.0003	SB 8/8 GS C WH	353	11235.1	PKB 950/7/5,08 GN	104	11353.1	PKB 1110/16/5,08 GN	105
9485.0004	SB 8/8 GS D WH	353	11235.1	PKB 950/7/5,08 GN	135	11354.1	PBT 1200/2/5,08 GN	105
9485.0005	SB 8/8 GS E WH	353	11235.1	PKB 950/7/5,08 GN	183	11354.1	PBT 1200/2/5,08 GN	136
9485.0006	SB 8/8 GS F WH	353	11236.1	PKB 950/8/5,08 GN	104	11355.1	PBT 1200/3/5,08 GN	105
9485.0007	SB 8/8 GS G WH	353	11236.1	PKB 950/8/5,08 GN	135	11355.1	PBT 1200/3/5,08 GN	136
9485.0008	SB 8/8 GS H WH	353	11236.1	PKB 950/8/5,08 GN	183	11356.1	PBT 1200/4/5,08 GN	105
9485.0009	SB 8/8 GS I WH	353	11237.1	PKB 950/9/5,08 GN	104	11356.1	PBT 1200/4/5,08 GN	136
9485.0010	SB 8/8 GS J WH	353	11237.1	PKB 950/9/5,08 GN	135	11357.1	PBT 1200/5/5,08 GN	105
9485.0011	SB 8/8 GS K WH	353	11237.1	PKB 950/9/5,08 GN	183	11357.1	PBT 1200/5/5,08 GN	136
9485.0012	SB 8/8 GS L WH	353	11238.1	PKB 950/10/5,08 GN	104	11358.1	PBT 1200/6/5,08 GN	105
9485.0013	SB 8/8 GS M WH	353	11238.1	PKB 950/10/5,08 GN	135	11358.1	PBT 1200/6/5,08 GN	136
9485.0014	SB 8/8 GS N WH	353	11238.1	PKB 950/10/5,08 GN	183	11359.1	PBT 1200/7/5,08 GN	105
9485.0015	SB 8/8 GS O WH	353	11239.1	PKB 950/11/5,08 GN	104	11359.1	PBT 1200/7/5,08 GN	136
9485.0016	SB 8/8 GS P WH	353	11240.1	PKB 950/12/5,08 GN	104	11360.1	PBT 1200/8/5,08 GN	105
9485.0017	SB 8/8 GS Q WH	353	11241.1	PKB 950/13/5,08 GN	104	11360.1	PBT 1200/8/5,08 GN	136
9485.0018	SB 8/8 GS R WH	353	11242.1	PKB 950/14/5,08 GN	104	11361.1	PBT 1200/9/5,08 GN	105
9485.0019	SB 8/8 GS S WH	353	11243.1	PKB 950/15/5,08 GN	104	11361.1	PBT 1200/9/5,08 GN	136
9485.0020	SB 8/8 GS T WH	353	11244.1	PKB 950/16/5,08 GN	104	11362.1	PBT 1200/10/5,08 GN	105
9485.0021	SB 8/8 GS U WH	353	11245.1	PKB 950/17/5,08 GN	104	11362.1	PBT 1200/10/5,08 GN	136
9485.0022	SB 8/8 GS V WH	353	11246.1	PKB 950/18/5,08 GN	104	11363.1	PBT 1200/11/5,08 GN	105
9485.0023	SB 8/8 GS W WH	353	11247.1	PKB 950/19/5,08 GN	104	11364.1	PBT 1200/12/5,08 GN	105
9485.0024	SB 8/8 GS X WH	353	11248.1	PKB 950/20/5,08 GN	104	11365.1	PBT 1200/13/5,08 GN	105
9485.0025	SB 8/8 GS Y WH	353	11249.1	PKB 950/21/5,08 GN	104	11366.1	PBT 1200/14/5,08 GN	105
9485.0026	SB 8/8 GS Z WH	353	11250.1	PKB 950/22/5,08 GN	104	11367.1	PBT 1200/15/5,08 GN	105
9485.0027	SB 8/8 GS PE WH	353	11251.1	PKB 950/23/5,08 GN	104	11368.1	PBT 1200/16/5,08 GN	105
9485.0028	SB 8/8 GS PEN WH	353	11252.1	PKB 950/24/5,08 GN	104	11369.1	PBT 1200/17/5,08 GN	105
9485.0029	SB 8/8 GS MP WH	353	11277.1	PKB 950/2/5,08-F GN	104	11370.1	PBT 1200/18/5,08 GN	105
9485.0030	SB 8/8 GS SL WH	353	11278.1	PKB 950/3/5,08-F GN	104	11371.1	PBT 1200/19/5,08 GN	105
9485.0031	SB 8/8 GS T1 WH	353	11279.1	PKB 950/4/5,08-F GN	104	11372.1	PBT 1200/20/5,08 GN	105
9485.0032	SB 8/8 GS T2 WH	353	11280.1	PKB 950/5/5,08-F GN	104	11373.1	PBT 1200/21/5,08 GN	105
9485.0033	SB 8/8 GS T3 WH	353	11281.1	PKB 950/6/5,08-F GN	104	11374.1	PBT 1200/22/5,08 GN	105
9485.0034	SB 8/8 GS + WH	353	11282.1	PKB 950/7/5,08-F GN	104	11375.1	PBT 1200/23/5,08 GN	105
9485.0035	SB 8/8 GS - WH	353	11283.1	PKB 950/8/5,08-F GN	104	11376.1	PBT 1200/24/5,08 GN	105
9485.0036	SB 8/8 GS ~ WH	353	11284.1	PKB 950/9/5,08-F GN	104	12000		
9485.0037	SB 8/8 GS Earth WH	353	11285.1	PKB 950/10/5,08-F GN	104	12002.9	K1 RD	135
9485.0038	SB 8/8 GS Earth with circuit WH	353				12003.9	K2 RD	135
9800			11305.1	PKB 1100/2/5,08 GN	104	12300		
9800.0	EMS-2 Starter Kit DIN A4	408	11305.1	PKB 1100/2/5,08 GN	135	12319.1	PK-TS/2/5,08 GN	102
9802.4	GST-H 27x8 BK	399	11305.1	PKB 1100/2/5,08 GN	183	12320.1	PK-TS/3/5,08 GN	102
9803.4	GST-H 27x12,5 BK	399	11306.1	PKB 1100/3/5,08 GN	104	12321.1	PK-TS/4/5,08 GN	102
9804.4	GST-H 27x18 BK	399	11306.1	PKB 1100/3/5,08 GN	135	12322.1	PK-TS/5/5,08 GN	102
9805.4	GST-H 27x27 BK	399	11306.1	PKB 1100/3/5,08 GN	183	12323.1	PK-TS/6/5,08 GN	102
9806.7	MC GS 7/20 K WH	396	11307.1	PKB 1100/4/5,08 GN	104	12324.1	PK-TS/7/5,08 GN	102
9806.8	MC GS 7/20 K YE	396	11307.1	PKB 1100/4/5,08 GN	135	12325.1	PK-TS/8/5,08 GN	102
9810.0	MC KMC 4x12/40 GO	366	11307.1	PKB 1100/4/5,08 GN	183	12326.1	PK-TS/9/5,08 GN	102
9810.5	MC KMC 4x12/40 BU	366	11308.1	PKB 1100/5/5,08 GN	104	12327.1	PK-TS/10/5,08 GN	102
9810.7	MC KMC 4x12/40 WH	366	11308.1	PKB 1100/5/5,08 GN	135	12328.1	PK-TS/11/5,08 GN	102
9810.8	MC KMC 4x12/40 YE	366	11308.1	PKB 1100/5/5,08 GN	183	12329.1	PK-TS/12/5,08 GN	102
9810.9	MC KMC 4x12/40 RD	366	11309.1	PKB 1100/6/5,08 GN	104	12330.1	PK-TS/13/5,08 GN	102
9811.0	MC KMC 4x12/40 So GO	366	11309.1	PKB 1100/6/5,08 GN	135	12331.1	PK-TS/14/5,08 GN	102
9811.5	MC KMC 4x12/40 So BU	366	11309.1	PKB 1100/6/5,08 GN	183	12332.1	PK-TS/15/5,08 GN	102
9811.7	MC KMC 4x12/40 So WH	366	11310.1	PKB 1100/7/5,08 GN	104	12333.1	PK-TS/16/5,08 GN	102
9811.8	MC KMC 4x12/40 So YE	366	11310.1	PKB 1100/7/5,08 GN	135	12334.1	PK-TS/17/5,08 GN	102
9811.9	MC KMC 4x12/40 So RD	366	11310.1	PKB 1100/7/5,08 GN	183	12335.1	PK-TS/18/5,08 GN	102
9812.0	MC KMC 4x21/40 GO	366	11311.1	PKB 1100/8/5,08 GN	104	12336.1	PK-TS/19/5,08 GN	102
9812.5	MC KMC 4x21/40 BU	366	11311.1	PKB 1100/8/5,08 GN	135	12337.1	PK-TS/20/5,08 GN	102
9812.7	MC KMC 4x21/40 WH	366	11311.1	PKB 1100/8/5,08 GN	183	12338.1	PK-TS/21/5,08 GN	102
9812.8	MC KMC 4x21/40 YE	366	11312.1	PKB 1100/9/5,08 GN	104	12339.1	PK-TS/22/5,08 GN	102
9812.9	MC KMC 4x21/40 RD	366	11312.1	PKB 1100/9/5,08 GN	135	12340.1	PK-TS/23/5,08 GN	102
9813.0	MC KMC 4x21/40 So GO	366	11312.1	PKB 1100/9/5,08 GN	183	12341.1	PK-TS/24/5,08 GN	102
9813.5	MC KMC 4x21/40 So BU	366	11313.1	PKB 1100/10/5,08 GN	104	13100		
9813.7	MC KMC 4x21/40 So WH	366	11313.1	PKB 1100/10/5,08 GN	135	13154.1	STL 950/2/5,08-G-L GN	183
9813.8	MC KMC 4x21/40 So YE	366	11313.1	PKB 1100/10/5,08 GN	183	13155.1	STL 950/3/5,08-G-L GN	183
9813.9	MC KMC 4x21/40 So RD	366	11314.1	PKB 1100/11/5,08 GN	104	13156.1	STL 950/4/5,08-G-L GN	183
9814.0	MC KMC 4x30/30 GO	366	11315.1	PKB 1100/12/5,08 GN	104	13157.1	STL 950/5/5,08-G-L GN	183
9814.5	MC KMC 4x30/30 BU	366	11316.1	PKB 1100/13/5,08 GN	104	13158.1	STL 950/6/5,08-G-L GN	183
9814.7	MC KMC 4x30/30 WH	366	11317.1	PKB 1100/14/5,08 GN	104	13159.1	STL 950/7/5,08-G-L GN	183
9814.8	MC KMC 4x30/30 YE	366	11318.1	PKB 1100/15/5,08 GN	104	13160.1	STL 950/8/5,08-G-L GN	183
9814.9	MC KMC 4x30/30 RD	366	11319.1	PKB 1100/16/5,08 GN	104	13161.1	STL 950/9/5,08-G-L GN	183
9815.0	MC KMC 4x30/30 So GO	366	11339.1	PKB 1110/2/5,08 GN	105	13162.1	STL 950/10/5,08-G-L GN	183
9815.5	MC KMC 4x30/30 So BU	366	11339.1	PKB 1110/2/5,08 GN	136	13175.1	PK-TS/2/5,08/15 GN	102
9815.7	MC KMC 4x30/30 So WH	366	11340.1	PKB 1110/3/5,08 GN	105	13176.1	PK-TS/3/5,08/15 GN	102
9815.8	MC KMC 4x30/30 So YE	366	11340.1	PKB 1110/3/5,08 GN	136	13177.1	PK-TS/4/5,08/15 GN	102
9815.9	MC KMC 4x30/30 So RD	366	11341.1	PKB 1110/4/5,08 GN	105	13178.1	PK-TS/5/5,08/15 GN	102
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13221.1	PKB 950/20/5,08-F GN	104	17031.3	TKS 4/Sl 6,3x32 OG	203	17104.5	SRK 4/2A BU	21
13222.1	PKB 950/21/5,08-F GN	104	17031.6	TKS 4/Sl 6,3x32 GR	203	17104.6	SRK 4/2A GR	21
13223.1	PKB 950/22/5,08-F GN	104	17032.3	TKS 10/1 OG	202	17104.7	SRK 4/2A WH	21
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13829.1	PK-TS/6/5,08/15-F GN	102	17041.4	SIK 10/Z PA-G BK	78	17108.7	SRK 6/2A WH	22
13830.1	PK-TS/7/5,08/15-F GN	102	17041.4	SIK 10/Z PA-G BK	209	17108.8	SRK 6/2A YE	22
13831.1	PK-TS/8/5,08/15-F GN	102	17042.2	SIK 10/ST BG	74	17108.9	SRK 6/2A RD	22
13832.1	PK-TS/9/5,08/15-F GN	102	17043.2	SIK 10/Z/ST BG	74	17111.2	SSL 6/2A GNYE	22
13833.1	PK-TS/10/5,08/15-F GN	102	17045.2	SST/SlK/LED(RD)/500 V AC/DC	75	17112.1	SRK 10/2A GN	23
13834.1	PK-TS/11/5,08/15-F GN	102	17046.3	TKS 10/3 OG	202	17112.2	SRK 10/2A BG	23
13835.1	PK-TS/12/5,08/15-F GN	102	17046.6	TKS 10/3 GR	202	17112.3	SRK 10/2A OG	23
13836.1	PK-TS/13/5,08/15-F GN	102	17047.3	TKS 4-Sl 5x25 OG	203	17112.4	SRK 10/2A BK	23
13837.1	PK-TS/14/5,08/15-F GN	102	17047.6	TKS 4-Sl 5x25 GR	203	17112.5	SRK 10/2A BU	23
13838.1	PK-TS/15/5,08/15-F GN	102	17048.2	RKDG 4/SV BG	50	17112.6	SRK 10/2A GR	23
13839.1	PK-TS/16/5,08/15-F GN	102	17048.5	RKDG 4/SV BU	50	17112.7	SRK 10/2A WH	23
13840.1	PK-TS/17/5,08/15-F GN	102	17049.2	RK 2,5-4/35 STB BG	31	17112.8	SRK 10/2A YE	23
13841.1	PK-TS/18/5,08/15-F GN	102	17049.5	RK 2,5-4/35 STB BU	31	17112.9	SRK 10/2A RD	23
13842.1	PK-TS/19/5,08/15-F GN	102	17050.0	EKBBS 1,5/1 transparent	227	17115.2	SSL 10/2A GNYE	23
13843.1	PK-TS/20/5,08/15-F GN	102	17051.0	EKBBS 1,5/2 transparent	227	17116.1	SRK 4/2A SAS GN	21
13844.1	PK-TS/21/5,08/15-F GN	102	17052.0	EKBBS 1,5/3 transparent	227	17116.2	SRK 4/2A SAS BG	21
13845.1	PK-TS/22/5,08/15-F GN	102	17053.0	EKBBS 1,5/4 transparent	227	17116.3	SRK 4/2A SAS OG	21
13846.1	PK-TS/23/5,08/15-F GN	102	17054.0	EKBBS 1,5/5 transparent	227	17116.4	SRK 4/2A SAS BK	21
13847.1	PK-TS/24/5,08/15-F GN	102	17055.0	EKBBS 1,5/6 transparent	227	17116.5	SRK 4/2A SAS BU	21
13848.1	PK-TS/2/5,08-F GN	103	17056.0	EKBBS 1,5/7 transparent	227	17116.6	SRK 4/2A SAS GR	21
13849.1	PK-TS/3/5,08-F GN	103	17057.0	EKBBS 1,5/8 transparent	227	17116.7	SRK 4/2A SAS WH	21
13850.1	PK-TS/4/5,08-F GN	103	17058.0	EKBBS 1,5/9 transparent	227	17116.8	SRK 4/2A SAS YE	21
13851.1	PK-TS/5/5,08-F GN	103	17059.0	EKBBS 1,5/10 transparent	227	17116.9	SRK 4/2A SAS RD	21
13852.1	PK-TS/6/5,08-F GN	103	17060.0	EKBBS 1,5/11 transparent	227	17117.1	SRK 6/2A SAS GN	22
13853.1	PK-TS/7/5,08-F GN	103	17061.0	EKBBS 1,5/12 transparent	227	17117.2	SRK 6/2A SAS BG	22
13854.1	PK-TS/8/5,08-F GN	103	17062.0	EKBBS 2,5/1 transparent	227	17117.3	SRK 6/2A SAS OG	22
13855.1	PK-TS/9/5,08-F GN	103	17063.0	EKBBS 2,5/2 transparent	227	17117.4	SRK 6/2A SAS BK	22
13856.1	PK-TS/10/5,08-F GN	103	17064.0	EKBBS 2,5/3 transparent	227	17117.5	SRK 6/2A SAS BU	22
13857.1	PK-TS/11/5,08-F GN	103	17065.0	EKBBS 2,5/4 transparent	227	17117.6	SRK 6/2A SAS GR	22
13858.1	PK-TS/12/5,08-F GN	103	17066.0	EKBBS 2,5/5 transparent	227	17117.7	SRK 6/2A SAS WH	22
13859.1	PK-TS/13/5,08-F GN	103	17067.0	EKBBS 2,5/6 transparent	227	17117.8	SRK 6/2A SAS YE	22
13860.1	PK-TS/14/5,08-F GN	103	17068.0	EKBBS 2,5/7 transparent	227	17117.9	SRK 6/2A SAS RD	22
13861.1	PK-TS/15/5,08-F GN	103	17069.0	EKBBS 2,5/8 transparent	227	17118.1	SRK 10/2A SAS GN	23
13862.1	PK-TS/16/5,08-F GN	103	17070.0	EKBBS 2,5/9 transparent	227	17118.2	SRK 10/2A SAS BG	23
13863.1	PK-TS/17/5,08-F GN	103	17071.0	EKBBS 2,5/10 transparent	227	17118.3	SRK 10/2A SAS OG	23
13864.1	PK-TS/18/5,08-F GN	103	17072.0	EKBBS 2,5/11 transparent	227	17118.4	SRK 10/2A SAS BK	23
13865.1	PK-TS/19/5,08-F GN	103	17073.0	EKBBS 2,5/12 transparent	227	17118.5	SRK 10/2A SAS BU	23
13866.1	PK-TS/20/5,08-F GN	103	17074.0	EKBBS 4/1 transparent	227	17118.6	SRK 10/2A SAS GR	23
13867.1	PK-TS/21/5,08-F GN	103	17075.0	EKBBS 4/2 transparent	227	17118.7	SRK 10/2A SAS WH	23
13868.1	PK-TS/22/5,08-F GN	103	17076.0	EKBBS 4/3 transparent	227	17118.8	SRK 10/2A SAS YE	23
13869.1	PK-TS/23/5,08-F GN	103	17077.0	EKBBS 4/4 transparent	227	17118.9	SRK 10/2A SAS RD	23
13870.1	PK-TS/24/5,08-F GN	103	17078.0	EKBBS 4/5 transparent	227	17119.1	SRK 2,5/2A SAS GN	20
13871.1	STL 950/2/5,08-V-G-L GN (FRK)	135	17079.0	EKBBS 4/6 transparent	227	17119.2	SRK 2,5/2A SAS BG	20
13872.1	STL 950/3/5,08-V-G-L GN (FRK)	135	17080.0	EKBBS 4/7 transparent	227	17119.3	SRK 2,5/2A SAS OG	20
13873.1	STL 950/4/5,08-V-G-L GN (FRK)	135	17081.0	EKBBS 4/8 transparent	227	17119.4	SRK 2,5/2A SAS BK	20
13874.1	STL 950/5/5,08-V-G-L GN (FRK)	135	17082.0	EKBBS 4/9 transparent	227	17119.5	SRK 2,5/2A SAS BU	20
13875.1	STL 950/6/5,08-V-G-L GN (FRK)	135	17083.0	EKBBS 4/10 transparent	227	17119.6	SRK 2,5/2A SAS GR	20
13876.1	STL 950/7/5,08-V-G-L GN (FRK)	135	17084.0	EKBBS 4/11 transparent	227	17119.7	SRK 2,5/2A SAS WH	20
13877.1	STL 950/8/5,08-V-G-L GN (FRK)	135	17085.0	EKBBS 4/12 transparent	227	17119.8	SRK 2,5/2A SAS YE	20
13878.1	STL 950/9/5,08-V-G-L GN (FRK)	135	17086.0	EKS 10 eco	418	17119.9	SRK 2,5/2A SAS RD	20
13879.1	STL 950/10/5,08-V-G-L GN (FRK)	135	17087.0	EKS 12 eco	418	17200		
17000			17088.0	EKS 17 eco	418	17200.8	SQIK 2,5-10 YE	285
17000.2	HSK 16/M5 B BG	190	17089.0	KS 34	419	17201.8	SQI 2,5/2 YE	284
17001.2	HSK 35/M6 B BG	190	17090.0	KS 52	419	17202.8	SQI 2,5/3 YE	284
17002.2	HSK 50/M8 B BG	190	17091.0	KS 62P	419	17203.8	SQI 2,5/4 YE	284
17003.2	HSK 120/M10 B BG	191	17092.0	KM 25	421	17204.8	SQI 2,5/5 YE	284

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17206.8	SQI 2,5/7 YE	284	17641.4	VRDE 20 BK	489			
17207.8	SQI 2,5/8 YE	284	17642.4	VRDE 25 BK	489			
17208.8	SQI 2,5/9 YE	284	17643.4	VRDE 32 BK	489			
17209.8	SQI 2,5/10 YE	284	17644.4	VRDE 40 BK	489			
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17211.8	SQI 4/2 YE	284	17646.4	VRDE 63 BK	489			
17212.8	SQI 4/3 YE	284	17647.4	VMD 12/04/020 BK	490			
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17214.8	SQI 4/5 YE	284	17649.4	VMD 20/02/060 BK	490			
17215.8	SQI 4/6 YE	284	17650.4	VMD 20/02/065 BK	490			
17216.8	SQI 4/7 YE	284	17651.4	VMD 20/03/040 BK	490			
17217.8	SQI 4/8 YE	284	17652.4	VMD 25/01/065 BK	490			
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17219.8	SQI 4/10 YE	284	17654.4	VMD 25/02/070 BK	490			
17220.8	SQI 4/30 YE	284	17655.4	VMD 25/02/080 BK	490			
17221.8	SQI 6/2 YE	284	17656.4	VMD 25/03/070 BK	490			
17222.8	SQI 6/3 YE	284	17657.4	VMD 25/04/060 BK	490			
17223.8	SQI 6/4 YE	284	17658.4	VMD 32/04/070 BK	490			
17224.8	SQI 6/5 YE	284	17659.4	VMD 32/04/080 BK	490			
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17226.8	SQI 6/7 YE	284	17661.4	VMD 40/07/070 BK	490			
17227.8	SQI 6/8 YE	284	17662.4	VMD 40/07/080 BK	490			
17228.8	SQI 6/9 YE	284	17663.4	VMD 40/08/060 BK	490			
17229.8	SQI 6/10 YE	284	17664.4	VMD 50/09/080 BK	490			
17230.8	SQI 6/30 YE	284	17665.9	VBS 2 RD	490			
17231.8	SQI 10/2 YE	285	17666.9	VBS 3 RD	490			
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17237.8	SQI 10/8 YE	285	17672.9	VBS 9 RD	490			
17238.8	SQI 10/9 YE	285	17673.9	VBS 10 RD	490			
17239.8	SQI 10/10 YE	285	17674.9	VBS 12 RD	490			
17240.8	SQI 10/30 YE	285	17675.9	VBS 13 RD	490			
17500			17676.9	VBS 14 RD	490			
17500.4	KV/Mex-e 16x1,5 BK	486	17677.9	VBS 17 RD	490			
17500.5	KV/Mex-i 16x1,5 BU	486	17678.9	VBS 20 RD	490			
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17501.5	KV/Mex-i 20 x 1,5 BU	486	17680.9	VBS 25 RD	490			
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17502.5	KV/Mex-i 25 x 1,5 BU	486	17682.9	VBS 35 RD	490			
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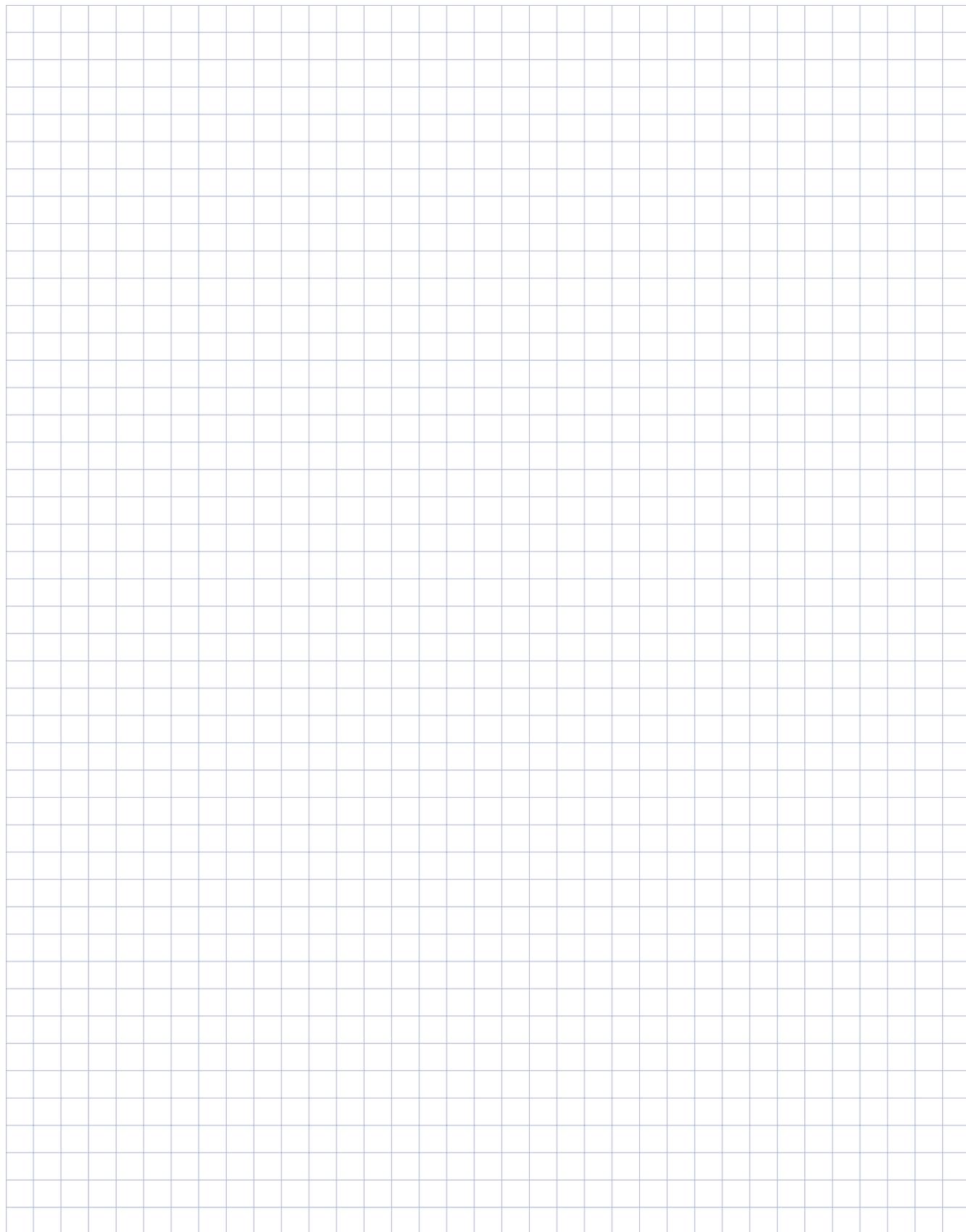
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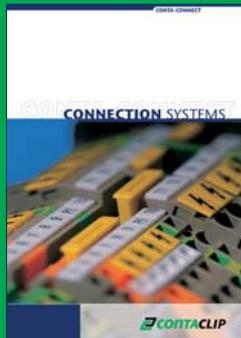
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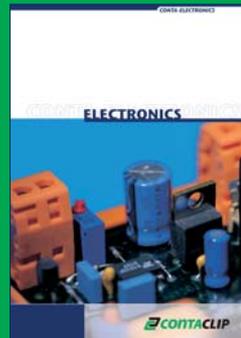




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**CONTA-CON**  
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