

CABLE MANAGEMENT SYSTEMS

KDS Cable entries  
KES Cable entries  
SAB|SSAB|SABK Shielding solutions



Catalogue 08

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## CONTA-CLIP: thinking ahead for connection systems

CONTA-CLIP was founded in 1977. We operate globally as an owner-operated medium-sized company.

Users of electrical and electronic connection systems rely on our reliable products and our many years of industrial and global market expertise.

Our company is now one of the most important manufacturers in the field.

For over 40 years, our components and solutions have been used in various process and industrial automation applications, including: railway technology, materials handling, building automation, air conditioning, mechanical and facility engineering, measurement and control technology, control panel construction, shipbuilding, transformer construction and environmental technology.

Over the years, we have evolved into an innovator that sets the tone with new ideas and creative impulses.

Our employees come from a wide variety of industries and view themselves as true connectivity specialists. They understand the specific problems, requirements and challenges of our customers. This results in communication among equals.

The profits then flow into the development of new products as well as into modern, efficient manufacturing processes.

A high quality standard throughout all departments is our number one priority.

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.

Our products are divided into six categories: CONTA-CONNECT for terminal blocks and accessories, CONTA-ELECTRONICS for electrical and electronic control cabinet components, CONTA-LABEL for marking systems, Cable Management Systems, CONTA-BOX for housings and CONTA-CON for PCB terminal blocks and connectors.

We design customer-specific solutions for electronics, provide completely assembled housings and assemblies as needed, assemble terminal blocks for series production, and quickly handle component labelling tasks.

We greet these challenges with passion and enthusiasm, because we see each customer as our partner.

CONTA-CLIP customer representatives are always ready to offer their support to the customer, because service and helpfulness are rooted deeply in our corporate philosophy.

# Advantage online: the CONTA-CLIP Online Catalogue

No matter where you are, as long as you're online you can access our digital catalogue to view our service portfolio and quickly identify suitable solutions for your requirements.

**Fast results** Use the full-text search, enter an order number or use the convenient "step-by-step" feature search function.

**Project planning at a glance:** After you've selected the products, all the master data for the materials (sales data, technical data, drawings, connection diagrams, classifications and approvals) are made available as a data sheet or export file.

**Detailed inquiries about components** can be sent via the shopping cart directly to our headquarters. Upon request, you will receive an e-mailed copy of your inquiry.

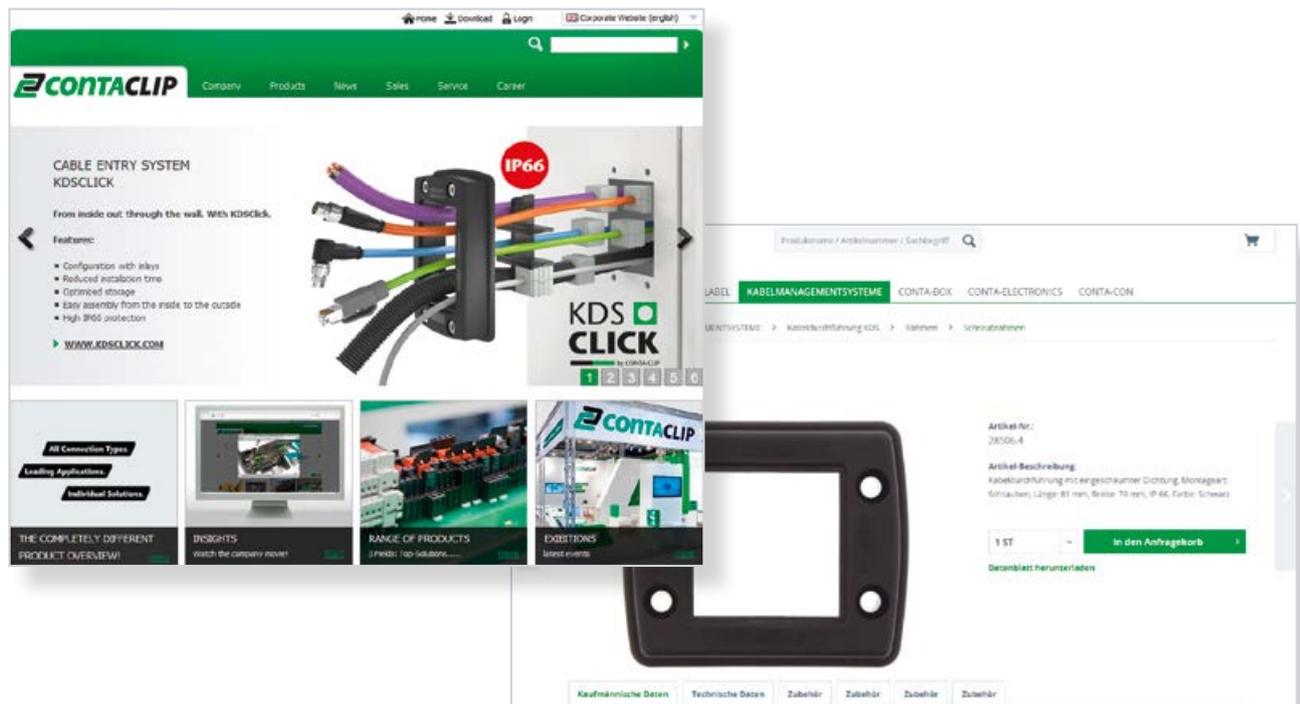
**Application films:** Complex functions be explained easily and clearly with sounds and images.

**Printed catalogue:** Would you like an offline overview? Please ask for our free printed catalogues.

**Industry-specific:** You will find the solutions that are relevant for your industry, according to your expertise.

**Newsletter:** Do you want to stay up to date? Subscribe to our newsletter! Simply register, confirm our authentication e-mail, and you'll be regularly informed about all CONTA-CLIP news.

Discover how the world of CONTA-CLIP and our website can deliver added value to you and your projects!



# Globally available for you

Are you working abroad? No problem. Our worldwide sales and distribution partners help us to be globally networked and provide on-time reliable deliveries. Simply scan the QR code shown and you'll find out on our website about the sales partner responsible for your country.



## Our locations in Africa

Algeria  
Morocco  
South Africa

## Our locations in Asia

Bahrain  
China  
Hong Kong  
India  
Israel  
Jordan  
Malaysia  
Oman  
Pakistan  
Qatar  
Saudi Arabia  
Singapore  
South Korea  
Taiwan  
Turkey  
United Arab Emirates

## Our locations in Australia

Australia  
New Zealand

## Our locations in Europe

Austria  
Belarus  
Belgium  
Bosnia and Herzegovina  
Bulgaria  
Croatia  
Czech Republic  
Denmark  
Finland  
France  
Great Britain  
Germany  
Greece  
Hungary  
Iceland  
Ireland  
Italy  
Latvia  
Netherlands

Norway

Poland  
Portugal  
Romania  
Russia  
Serbia  
Slovakia  
Slovenia  
Spain  
Sweden  
Switzerland  
Ukraine

## Our locations in North America

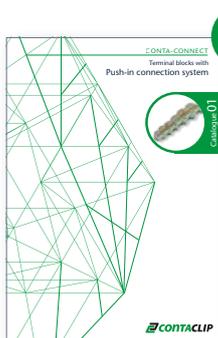
Canada  
Mexico  
United States

## Our locations in South America

Bolivia  
Brazil  
Chile  
Ecuador

# A complete line of products for your challenges

## The CONTA-CLIP Catalogues



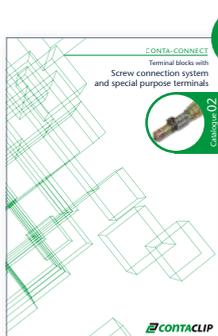
### 01 CONTA-CONNECT

#### Terminal blocks with Push-in connection system

Our wide range of innovative PRK and FRK terminal series with the Push-in connection system include feed-through terminals, PE terminals, disconnect terminals, fused terminals, multi-level terminals, installation terminals and initiator terminals, for conductor cross-sections from 0.2 mm<sup>2</sup> to 25 mm<sup>2</sup>.



Cat. no. 98070.2



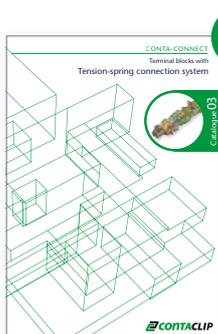
### 02 CONTA-CONNECT

#### Terminal blocks with screw connection system and special terminals

Everything for classic wiring with screw connection systems (also for high currents): SRK feed-through and PE terminals, RK high-temperature variants, TK transformer terminals, HSK high-power stud terminals, SVB series screw distributor blocks, and the modular feed-through terminal systems from the SDK series.



Cat. no. 98071.2



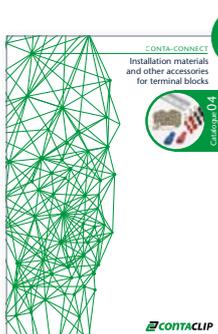
### 03 CONTA-CONNECT

#### Terminal blocks with tension-spring connection system

Our versatile line of terminals with tension spring connection systems for conductor cross-sections from 0.2 mm<sup>2</sup> to 16 mm<sup>2</sup> includes: the ZRK/ZSL series of feed-through and PE terminals, the double-level ZRKD/ZSLD, the ZIKD three-level terminal blocks, motor-connection terminals, (blade-) disconnect terminals, fused terminals, direct-mount terminals, and initiator/actuator terminals for transmitting positioning, encoder and alert signals.



Cat. no. 98072.2



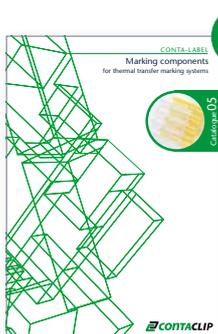
### 04 CONTA-CONNECT

#### Installation materials and other accessories for terminal blocks

Our installation products include cabling ducts, assembly tools, cable glands with metric or PG threads, DIN rails, DIN rail cutters and punching tools. The terminal block accessories include different versions of end stops, wire-end ferrules, and connectors.



Cat. no. 98073.2



### 05 CONTA-LABEL

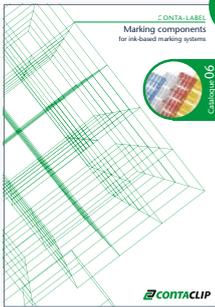
#### Marking components for thermal transfer marking systems

CONTA-CLIP provides the TTPCard thermal-transfer printer and a large selection of PC, PVC and PVCF markers or labels in card format: for professional, permanent labelling of terminals, devices, conductors, cables, facilities and switchgear cabinets.



Cat. no. 98074.2

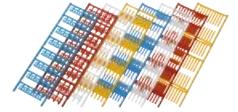
Our catalogues are available in many languages!



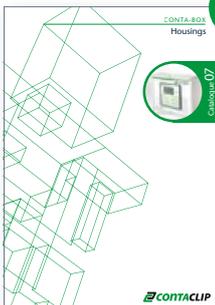
## 06 CONTA-LABEL

### Marking components for ink-based marking systems

The CONTA-LABEL products provide polyamide markers for labelling conductors, cables, devices and facilities with ink print. These markers are available in many shapes and colours: in the classic MC Maxicard format for self-printing with the EMS plotter system EMS or other ink-jet systems, or ready-to-use customized printed in the PMC Pocket-Maxicard format.



Cat. no. 98075.2



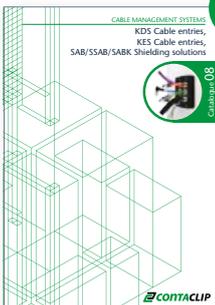
## 07 CONTA-BOX

### Housings

Our wide variety of housings made of polystyrene, polycarbonate, polyester, ABS and aluminium deliver solutions for protecting electronic circuits, integrated devices and terminal blocks. On request, the housings can be provided with extensive processing and assembled with our CONTA-CONNECT, CONTA-ELECTRONICS and CONTA-CON product lines.



Cat. no. 98076.2



## 08 CABLE MANAGEMENT SYSTEMS

### KDS cable entries, KES cable entries, SAB|SSAB|SABK shielding solutions

The KDS and KES cable entries enable a tool-free, IP66-sealed feed-through for unassembled and assembled cables and hoses. The feed-through openings can be adapted at any time to meet your requirements. The SAB shield-connection clips can be used to provide a reliable shield contact with conductor diameters from 3 mm to 35 mm.



Cat. no. 98077.2



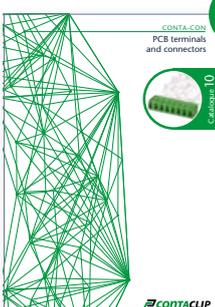
## 09 CONTA-ELECTRONICS

### Electrical and electronic cabinet components

Our CONTA-ELECTRONICS products provide active and passive components for the transfer and conversion of analogue and digital signals at the coupling level. This product line includes power supplies, multi-function timing relays, coupling relays, digital switching modules, interface modules, opto-couplers, signal converters, GSM communication modules and much more.



Cat. no. 98078.2



## 10 CONTA-CON

### PCB terminals and connectors

This catalogue presents our wide variety of CONTA-CON PCB terminal blocks and connector systems. The modular components can be configured for any required number of poles; They are available in the wire connection types: wire protection, eccentric, clamping yoke, and (for demanding operating conditions) with tension-spring or Push-in wire termination.



Cat. no. 98079.2

# Cable management systems

## KDS cable entries

The KDS cable entry system has a modular design consisting of frames, frame inlays and seals. This enables quick and easy dimensioning of feed-through openings for pre-assembled cables – without the use of tools. The system reliably ensures an IP66 seal. Since the diameter and number of frame openings can be adapted at any time without costly dismantling of the frame, switchgear cabinets or machine housings can be uniformly prepared for different purposes using KDS. This results in significantly less costs and warehousing overhead. Our wide range of KDS seals currently includes more than 90 variants and is constantly being expanded.

## KES cable entries

The KES cable entries enable unassembled cables or pneumatic hoses to be quickly inserted into switchgear cabinets or housings without using tools. The KES entry plates feature a dimensionally stable, elastomer-encapsulated polyamide frame. In order to insert the required number of cables, the surface membrane is first pierced with a screwdriver. Then, the unassembled cables are easily pushed through. Tapered inlet grommets on the back of the plate provide IP66 sealing and reliable strain relief. With up to 32 cables per plate, the KES achieves a significantly higher packaging density than conventional entry systems.

## SAB|SSAB|SABK shielding solutions

The SAB shield-connection clips provides an easy tool-free contact for the cable shield. It is a modular system for mounting to DIN rails, busbars or direct mounting. The system includes shield-connection brackets for cable diameters from 1.5 mm to 18 mm, clamp mounting feet for all attachment types, busbar holders and shield-connection clips with screw or spring contacts. The stripped cable is easily pushed into the SABK shield-connection brackets. The spring force in the bracket then ensures that the shield has a consistently good contact. The large-area shield contact ensures low-impedance discharge resistances, even at high frequencies. The SAB/SSAB shield-connection clips cover a clamping range for cable diameters from 3 mm to 35 mm. This product line also includes busbar rail holders and end supports for mounting to busbars.



*Get started  
now with  
**CONTA-CLIP!***



### **KDSClick** **Modular cable entry system**

The KDS-SR screw frames are available in 4 different sizes. The inlays make a wide variety of combinations possible.

[Page 10](#)



### **KDS-FP** **Flange plates**

The KDS-FP flange plates are available in 2 different sizes. The inlays make a wide variety of combinations possible.

[Page 16](#)



### **KDS-KV** **Separable cable glands**

The KDS-KV separable cable glands are designed for metric break-outs of 20 to 63 mm diameter.

[Page 24](#)



### **KES** **Cable entries**

The KES cable entry system can be used to insert unassembled cables as well as pneumatic and hydraulic hoses.

[Page 34](#)



### **SAB** **Shielding solutions**

The shield-connection clip products provide a modular system for direct installations or DIN-rail mounting.

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# KDSClick Modular cable entry system

## Revolutionary cable entry systems

Fast. Safe. Turning cables inside out! The KDSClick cable entry system is a cable management solution for switchgear cabinets, housings and machines that features secure seals and strain relief for pre-assembled and non-assembled cables – with or without connectors. KDSClick saves you time and provides you with maximum versatility.

**IP66**

It's easy.  
It's quick.  
It's *KDSClick*.



# The basic components of the modular system

**Frames. Inlays. Seals. The modular design – 3 basic components – provides more versatility, variability and variety.**

## 1. Frame

Made from a single mould, the one-piece frame is quick and easy to assemble. It is made of sturdy, glass-fibre reinforced plastic. The foamed seal guarantees an optimal seal with IP66 protection, even on painted or rough surfaces.



## 2. Inlays

The click-in inlays enable needs-based dimensioning of the frame opening, corresponding to the seal being used. An audible "click" confirms a correct installation. So you can variably configure cable entries to match various requirements (for cables, lines, tubing, pneumatic and hydraulic lines).



## 3. Seals

The conical shape of the seal makes it easy to press in. This also reliably seals the gaps and ensures strain relief in accordance with DIN EN 62444. The seals are installed by pressing them from the inside outwards into the openings of the previously installed inlays. Their wave-cut profile makes them easy to install and ensures a perfect fit around the cables. There are currently over 90 different seals that can be used for sealing cables of various diameters and sizes.



## Your advantages: More versatility and safety

The seals can be removed by pressing from the outside inwards. Changes, retrofits, servicing or the readjustment of the cable lengths can be made at any time without dismantling the frame. Unwanted manipulations from the outside can be prevented by using an optional inner locking frame.

# KDSClick Modular cable entry system

Supported by:

on the basis of a decision  
by the German Bundestag

## An overview of your advantages

### Attaching the frame

The one-piece frame can be easily and quickly attached to the wall.



### Quick inside-outwards assembly for easier servicing work

The frame does not need to be disassembled if your requirements change or if you're carrying out service work.



### Captive seal

The foamed-in frame gasket eliminates the risk of incorrect assembly (forgotten gasket) and speeds up the assembly process.



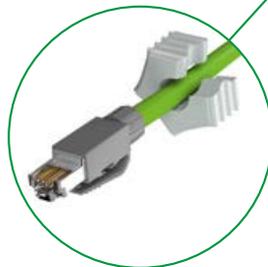
### Smart separation of the seals

The wave-cut profile makes them easy to install and ensures a perfect fit around the cables.



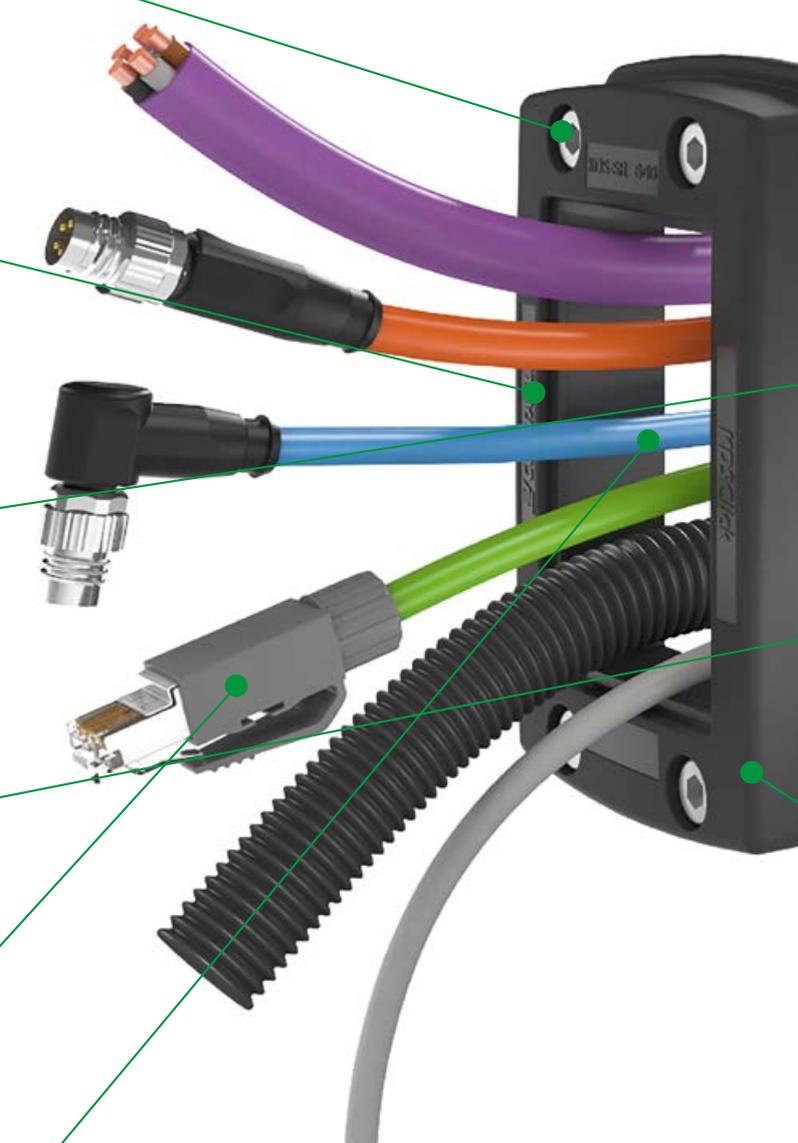
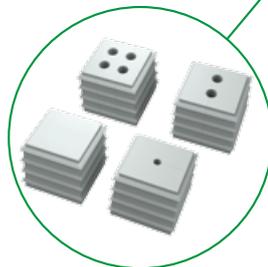
### No loss of guarantee: assembled cables

No need to disassemble and reconnect connectors, so manufacturer's warranty is not voided.



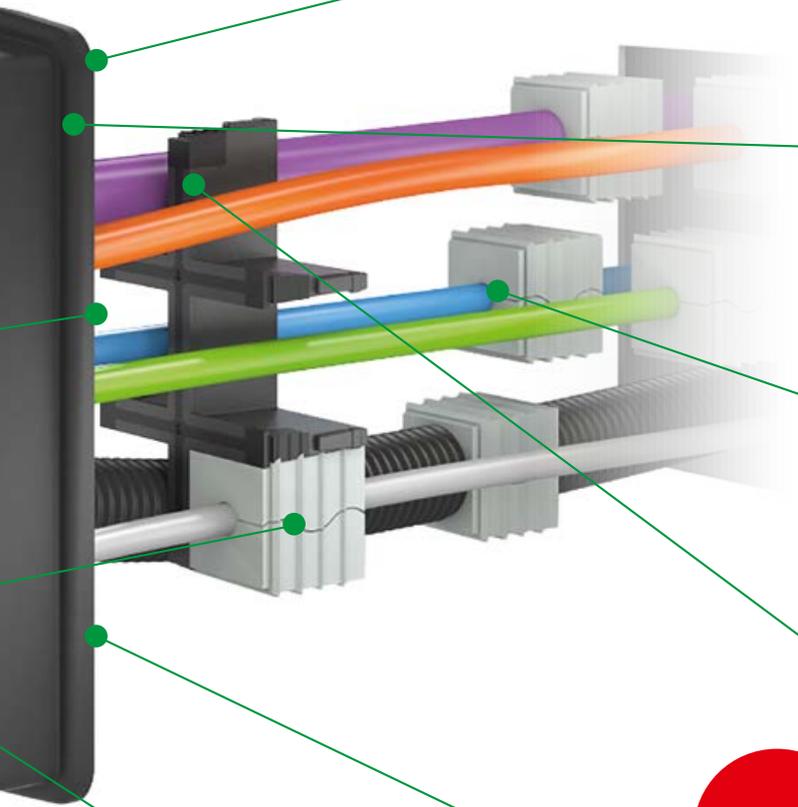
### Versatile, high-density assemblies are possible

1-way, 2-way, and 4-way seals provide you with excellent versatility for cable management.



# KDS CLICK

by CONTA-CLIP



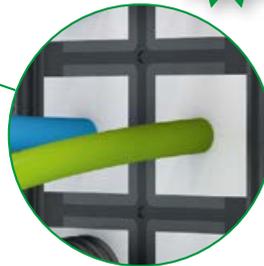
### Outstanding versatility with optimized warehousing

The frames, inlays and seals can be combined in many ways – ensuring you many versatile configuration options.



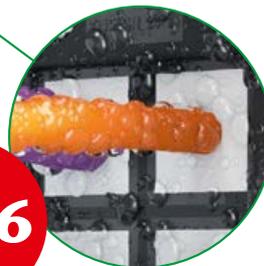
### Safe and quick installation with feedback

An audible “click” confirms that the inlay and frame have been properly installed.



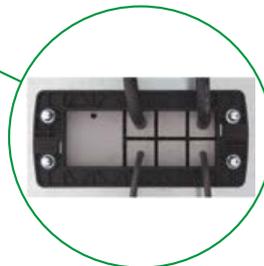
### Integrated strain relief

The absolute tightness of the seals ensures a strain relief mechanism for the cables working towards accordance with DIN EN 62444.



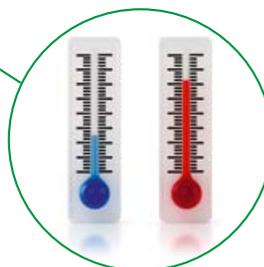
### Outstanding IP66 seal

Multi-resistant, tapered seals feature inner and outer sealing gills.



### Inner locking frame

The optional locking frame ensures that the seals cannot be pushed out without using tools.



### Can be used from -40 °C to +120 °C

Materials contain no halogen or silicone, suitable for many different applications.

	IP66	NEMA TYPE 12	NEMA TYPE 4X
ECOLAB certified	RoHS compliant	Made in Germany	

# KDSClick

## Modular cable entry system

Frames and inlays	KDS-SR 1-4	KDS-SR 6/10	KDS-SR 8/16	KDS-SR 10/24
				
<b>Diagram</b>	Page 22	Page 22	Page 22	Page 22
<b>Type</b>	<b>KDS-SR 1-4 BK</b>	<b>KDS-SR 6/10 BK</b>	<b>KDS-SR 8/16 BK</b>	<b>KDS-SR 10/24 BK</b>
<b>Cat. no.</b>	28506.4	28500.4	28502.4	28504.4
<b>Qty.</b>	1	1	1	1
<b>Description</b>	Screw frame	Screw frame	Screw frame	Screw frame
<b>Type / Set</b>	<b>KDS-Set 1-4 BK</b>	<b>KDS-Set 6/10 BK</b>	<b>KDS-Set 8/16 BK</b>	<b>KDS-Set 10/24 BK</b>
<b>Cat. no.</b>	28602.4	28603.4	28604.4	28605.4
<b>Qty.</b>	1	1	1	1
<b>Description</b>	Set consists of: 1 x KDS-SR 1-4 BK, 1 x KDS-Inlay 4 BK	Set consists of: 1 x KDS-SR 6/10 BK, 1 x KDS-Inlay 2 BK, 1 x KDS-Inlay 6 BK	Set consists of: 1 x KDS-SR 8/16 BK, 1 x KDS-Inlay 1 BK, 2 x KDS-Inlay 4 BK	Set consists of: 1 x KDS-Inlay 2 BK, 1 x KDS-Inlay 4 BK, 1 x KDS-Inlay 6 BK
<b>Accessories</b>				
<b>Inlay</b>	<b>KDS-Inlay 4 BK</b>	<b>KDS-Inlay 2 BK</b>	<b>KDS-Inlay 1 BK</b>	<b>KDS-Inlay 2 BK</b>
<b>Cat. no.</b>	28518.4	28517.4	28516.4	28517.4
<b>Qty.</b>	5	5	5	5
<b>Description</b>	for 4-way splits	T-shape	For separating vertically	T-shape for large small
<b>Inlay</b>		<b>KDS-Inlay 6 BK</b>	<b>KDS-Inlay 4 BK</b>	<b>KDS-Inlay 4 BK</b>
<b>Cat. no.</b>		28519.4	28518.4	28518.4
<b>Qty.</b>		5	5	5
<b>Description</b>		for 6-way splits	for 4-way splits	for 4-way splits
<b>Inlay</b>				<b>KDS-Inlay 6 BK</b>
<b>Cat. no.</b>				28519.4
<b>Qty.</b>				5
<b>Description</b>				for 6-way splits
<b>Inner locking frame (optional)</b>	<b>KDS-IVR 1-4 BK</b>	<b>KDS-IVR 6/10 BK</b>	<b>KDS-IVR 8/16 BK</b>	<b>KDS-IVR 10/24 BK</b>
<b>Cat. no.</b>	28507.4	28501.4	28503.4	28505.4
<b>Qty.</b>	10	10	10	10
<b>Sheet-metal puncher</b>	<b>BL KDS-SR 1-4</b>	<b>BL KDS-SR 6/10</b>	<b>BL KDS-SR 8/16</b>	<b>BL KDS-SR 10/24</b>
<b>Cat. no.</b>	Page 43	Page 43	Page 43	Page 43
<b>Description</b>	For sheet steel up to 2 mm; also for marking drilling hole points	For sheet steel up to 2 mm; also for marking drilling hole points	For sheet steel up to 2 mm; also for marking drilling hole points	For sheet steel up to 2 mm; also for marking drilling hole points
<b>Actuating tool</b>	<b>KDS BW 1</b>	<b>KDS BW 1</b>	<b>KDS BW 1</b>	<b>KDS BW 1</b>
<b>Cat. no.</b>	Page 30	Page 30	Page 30	Page 30
<b>Qty.</b>				
<b>Seals</b>				
<b>small</b>	<b>KDS-DE</b>	<b>KDS-DE</b>	<b>KDS-DE</b>	<b>KDS-DE</b>
<b>Cat. no.</b>	Page 32/33	Page 32/33	Page 32/33	Page 32/33
<b>Qty.</b>	10	10	10	10
<b>large</b>	<b>KDS-DEG</b>	<b>KDS-DEG</b>	<b>KDS-DEG</b>	<b>KDS-DEG</b>
<b>Cat. no.</b>	Page 32/33	Page 32/33	Page 32/33	Page 32/33
<b>Qty.</b>	10	10	10	10



IP66

NEMA  
TYPE  
12NEMA  
TYPE  
4XECOLAB  
certifiedRoHS  
compliantMade in  
Germany

### Features

- Material: polyamide PA 6.6, glass-fibre reinforced | TPE
- Colour: black
- Flammability: UL 94 V-0
- Temperature range: -40 °C to +120 °C
- Halogen-free, silicone-free
- Protection: IP66

# KDSClick Combination options

## Combination options with KDS-SR 1-4



**KDS-Inlay 4 BK**  
28518.4



## Combination options with KDS-SR 6/10



**KDS-Inlay 6 BK**  
28519.4



**KDS-Inlay 2 BK**  
28517.4

## Combination options with KDS-SR 8/16



**KDS-Inlay 4 BK**  
28518.4



**KDS-Inlay 1 BK**  
28516.4



**KDS-Inlay 4 BK**  
28518.4



**KDS-Inlay 4 BK**  
28518.4



**KDS-Inlay 1 BK**  
28516.4



**KDS-Inlay 1 BK**  
28516.4

## Combination options with KDS-SR 10/24



**KDS-Inlay 4 BK**  
28518.4



**KDS-Inlay 6 BK**  
28519.4



**KDS-Inlay 6 BK**  
28519.4



**KDS-Inlay 2 BK**  
28517.4

# KDS-FP Flange plates

## New versatility for managing cables

The new KDS-FP flange plate provides manufacturers of machines with a very cost-effective, convenient feed-through solution. It can be used to adapt housings and switchgear cabinets to fit your updated requirements at any time, and can also considerably simplify your warehousing. You no longer have to stock switchgear cabinets or distributors with different configurations of assembled cable and cable outlets. Instead, you can uniformly prepare your products with the flange plate and then adapt them at any time to your specific cabling or tubing requirements. In the future, CONTA-CLIP will also offer the flange plates of the KDS-FP series in other shapes and sizes. Your advantage is that you save money by requiring fewer variants.

IP66



## Your advantages

- Lower costs with increased variability due to standardized opening dimensions
- No loss of guarantee when using assembled cables
- Versatile, high-density assemblies are possible
- Outstanding IP66 seal
- Integrated strain relief
- Outstanding versatility with optimized warehousing
- Can be used from -40 °C to +120 °C

# The basic components of the modular system

**Flange plate. Inlays. Seals. The modular design – 3 basic components – provides more versatility, variability and variety.**

## 1. Flange plate

The flange plate is available in the versions KDS-FP-2x10/24 (up to 20 feed-through openings) or the KDS-FP-3x10/24 (up to 30 openings). Uniform housing break-outs of 131 x 110 mm or 131 x 161 mm are used for installation. By screwing the flange plate on the outside of the cabinet, the break-out is completely sealed according to IP66. On the continuous closed plates, there are two or three cover segments with pre-determined breaking points; these can be pushed out (without tools) which then opens up a 40 x 110 mm feed-through opening. The click-in KDSClick frame inlays can be used to subdivide this opening in up to ten appropriately sized frame openings.



## 2. Inlays

The click-in inlays enable needs-based dimensioning of the frame opening, corresponding to the seal being used. An audible "click" confirms a correct installation. So you can variably configure cable entries to match various requirements (for cables, lines, tubing, pneumatic and hydraulic lines).



## 3. Seals

The conical shape of the seal makes it easy to press in. This also reliably seals the gaps and ensures strain relief in accordance with DIN EN 62444. The seals are installed by pressing them from the inside outwards into the openings of the previously installed inlays. Their wave-cut profile makes them easy to install and ensures a perfect fit around the cables. There are currently over 90 different seals that can be used for sealing cables of various diameters and sizes.



# KDS-FP Flange plate

## An overview of your advantages

### Flange plate is easy to install

The one-piece flange plate can be easily and quickly attached to the wall.



### Captive seal

The foamed-in frame gasket eliminates the risk of incorrect assembly (forgotten gasket) and speeds up the assembly process.



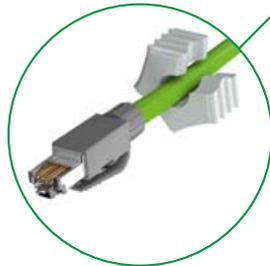
### Variability

Can be extended to max. 30 openings, without the use of tools or further machining.



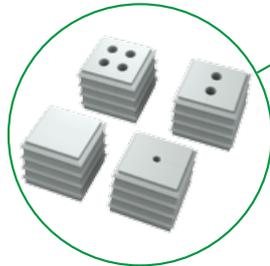
### No loss of guarantee: assembled cables

No need to disassemble and reconnect connectors, so manufacturer's warranty is not voided.



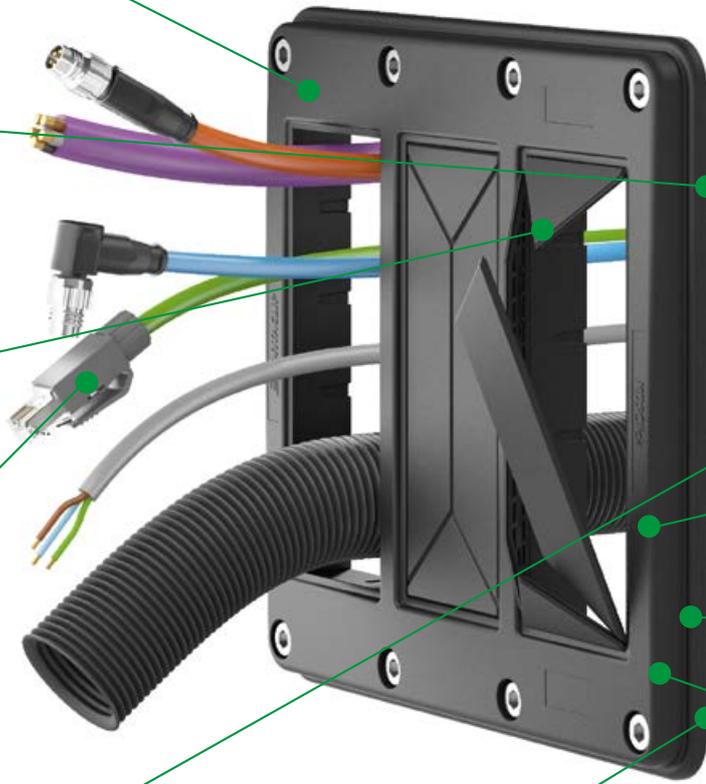
### Versatile, high-density assemblies are possible

1-way, 2-way, and 4-way seals provide you with excellent versatility for cable management.



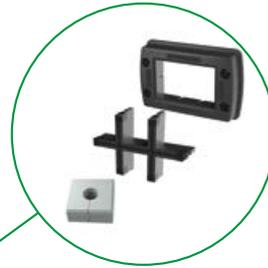
### Accessories

Locking mechanism can be installed without tools; this provides additional strain relief in direction of cabinet interior.



# KDS CLICK

by CONTA-CLIP

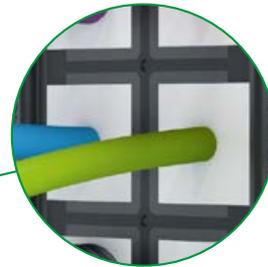


**Outstanding versatility with optimized warehousing**  
The flange plates, inlays and seals can be combined in many ways – ensuring you many versatile configuration options.



**Safe and quick installation with feedback**  
An audible “click” confirms that the inlay and frame have been properly installed.

Click

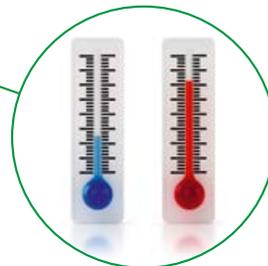


**Integrated strain relief**  
The absolute tightness of the seals ensures a strain relief mechanism for the cables working towards accordance with DIN EN 62444.



**Outstanding IP66 seal**  
Multi-resistant, tapered seals feature inner and outer sealing gills.

IP66



**Can be used from –40 °C to +120 °C**  
Materials contain no halogen or silicone, suitable for many different applications.

# KDS-FP Flange plate

Flange plates and accessories		KDS-FP 2 X 10/24	
			
<b>Diagram</b>		Page 23	
<b>Type</b>		KDS-FP 2X10/24 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28660.4	1
<b>Description</b>		Flange plate	
<b>Accessories</b>			
<b>Inlay</b>		KDS-Inlay 1 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28516.4	5
<b>Description</b>		For separating vertically	
<b>Inlay</b>		KDS-Inlay 2 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28517.4	5
<b>Description</b>		T-shape for large small	
<b>Inlay</b>		KDS-Inlay 4 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28518.4	5
<b>Description</b>		for 4-way splits	
<b>Inlay</b>		KDS-Inlay 6 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28519.4	5
<b>Description</b>		for 6-way splits	
<b>Inner lock</b>		KDS-FP-IVR OG	
<b>Cat. no.</b>	<b>Qty.</b>	28664.3	20
<b>Actuating tool</b>		KDS BW 1	
<b>Cat. no.</b>	<b>Qty.</b>	Page 30	

Flange plates and accessories		KDS-FP 3x10/24 BK	
			
<b>Diagram</b>		Page 23	
<b>Type</b>		KDS-FP 3x10/24 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28661.4	1
<b>Description</b>		Flange plate	
<b>Accessories</b>			
<b>Inlay</b>		KDS-Inlay 1 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28516.4	5
<b>Description</b>		For separating vertically	
<b>Inlay</b>		KDS-Inlay 2 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28517.4	5
<b>Description</b>		T-shape for large small	
<b>Inlay</b>		KDS-Inlay 4 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28518.4	5
<b>Description</b>		for 4-way splits	
<b>Inlay</b>		KDS-Inlay 6 BK	
<b>Cat. no.</b>	<b>Qty.</b>	28519.4	5
<b>Description</b>		for 6-way splits	
<b>Inner lock</b>		KDS-FP-IVR OG	
<b>Cat. no.</b>	<b>Qty.</b>	28664.3	20
<b>Actuating tool</b>		KDS BW 1	
<b>Cat. no.</b>	<b>Qty.</b>	Page 30	

# KDS-FP

## Combination options

### Combination option 1



**KDS-Inlay 4 BK**  
28518.4



**KDS-Inlay 1 BK**  
28516.4



**KDS-Inlay 6 BK**  
28519.4

### Combination option 2



**KDS-Inlay 1 BK**  
28516.4



**KDS-Inlay 6 BK**  
28519.4

### Combination option 3



**KDS-Inlay 1 BK**  
28516.4



**KDS-Inlay 2 BK**  
28517.4

Each of the two or three 10-frame openings can be configured with the appropriate inlays to match a wide variety of customer requirements.



## Features

- Material: polyamide PA 6.6
- Glass-fibre reinforced | TPE
- Colour: black
- Flammability: UL 94 V-0
- Temperature range: -40 °C to +120 °C
- Halogen-free, silicone-free
- Protection: IP66

# KDSClick: dimensional drawings / mounting cut-outs

## Modular cable entry system

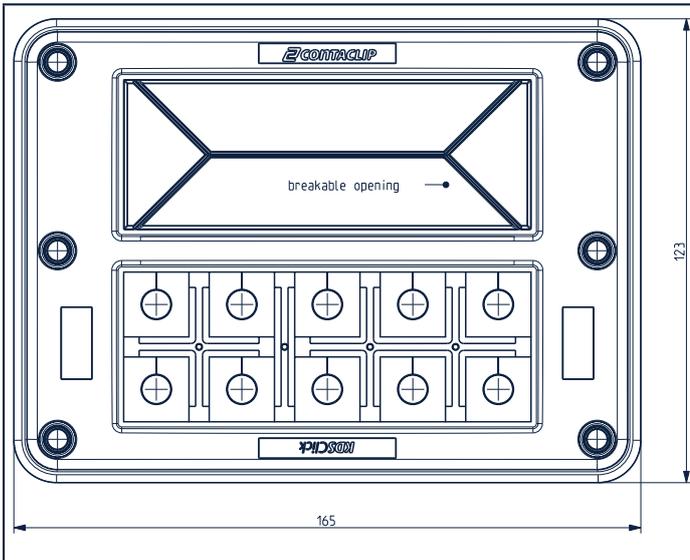
<b>KDS-SR 1-4</b>	
<b>Dimension diagram</b>	<b>Mounting cut-out</b>
Torque for the frame's mounting screw: 3 Nm	Screw for usage: ISO 4762 / DIN 912
<b>KDS-SR 6/10</b>	
<b>Dimension diagram</b>	<b>Mounting cut-out</b>
Torque for the frame's mounting screw: 3 Nm	Screw for usage: ISO 4762 / DIN 912
<b>KDS-SR 8/16</b>	
<b>Dimension diagram</b>	<b>Mounting cut-out</b>
Torque for the frame's mounting screw: 3 Nm	Screw for usage: ISO 4762 / DIN 912
<b>KDS-SR 10/24</b>	
<b>Dimension diagram</b>	<b>Mounting cut-out</b>
Torque for the frame's mounting screw: 3 Nm	Screw for usage: ISO 4762 / DIN 912

# KDS-FP: dimensional drawings / mounting cut-outs

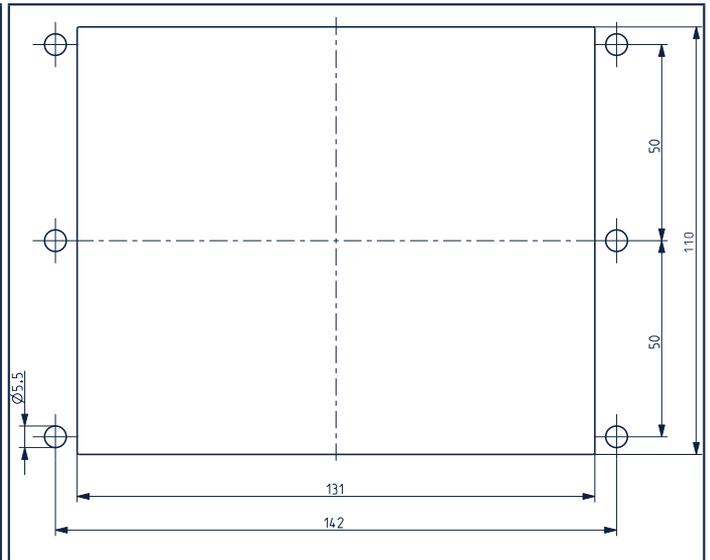
## Flange plate

### KDS-FP 2 X 10/24

Dimension diagram



Mounting cut-out

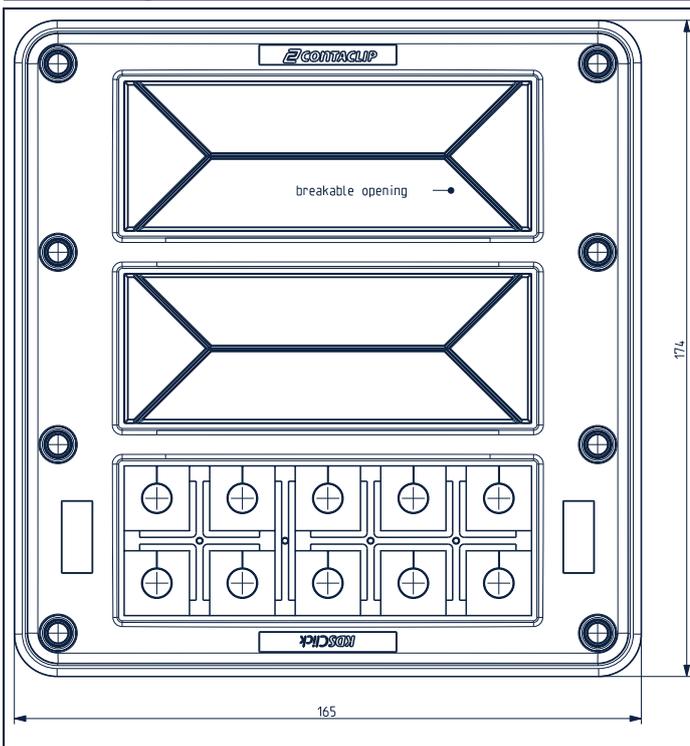


Torque for the frame's mounting screw: 3 Nm

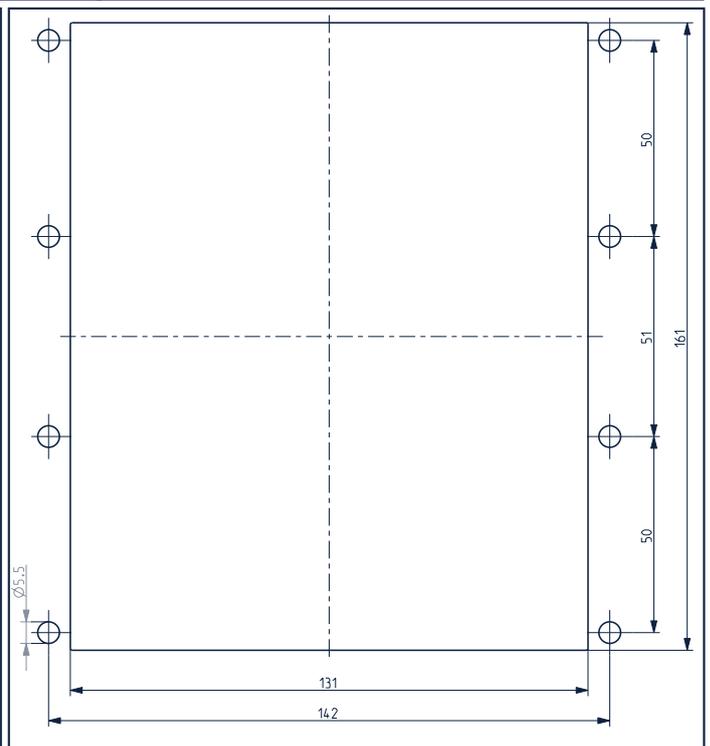
Screw for usage: ISO 4762 / DIN 912

### KDS-FP 3 X 10/24

Dimension diagram



Mounting cut-out



Torque for the frame's mounting screw: 3 Nm

Screw for usage: ISO 4762 / DIN 912

# KDS-KV

## Separable cable glands

All-round "cornered" solutions for your requirements! For metric break-outs from M20 to M63, CONTA-CLIP provides separable cable glands for cables with or without attached plugs. In case of maintenance or retrofitting with assembled cable harnesses, cables with diameters from 2 to 35 mm can be quickly and safely inserted into the switchgear cabinets or housings and sealed according to IP66. This separable system ensures quick and simple installation.

The slitted seal has a wave-cut profile that ensures a reliable seal and a totally secure attachment. The seal is first placed around the cable and then inserted in one of the two halves of the cable gland. After inserting the seals, the two halves of the cable gland are simply snapped together. A locknut (which can also be separated) on the inside of the cabinet ensures a safe and secure attachment.



### Your advantages

- Assembled cables can be guided through
- Guarantee retained for assembled cables
- Retrofitting and servicing can be done quickly and easily
- High-density assemblies
- Can be installed on standard metric break-outs
- Includes a separable hexagon nut

# The basic components of the modular system

## Split cable glands

Consisting of two half-shells, the cable gland is quick and easy to install. It is made of dimensionally stable, glass-fibre reinforced plastic. The integrated seal guarantees an optimal seal according to IP66, even on painted or rough surfaces.



## Separable locknuts

The individual parts of the locknut can be snapped together quickly and easily via the dovetail guide and then mounted with the gland.



## Seals

The conical shape of the seal makes it easy to press in. This also reliably seals the gaps and ensures strain relief in accordance with DIN EN 62444. The seals are installed by pressing them from the inside outwards into the openings of the previously installed inlays. Their wave-cut profile makes them easy to install and ensures a perfect fit around the cables. There are currently over 90 different seals that can be used for sealing cables of various diameters and sizes.



# KDS-KV Separable cable glands

## An overview of your advantages

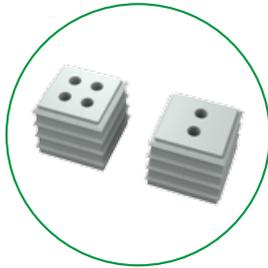
### Mounting

No tools are required to mount the cable gland.



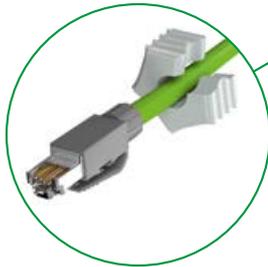
### Variability

Up to 4 cables can be fed through using just one cable gland.



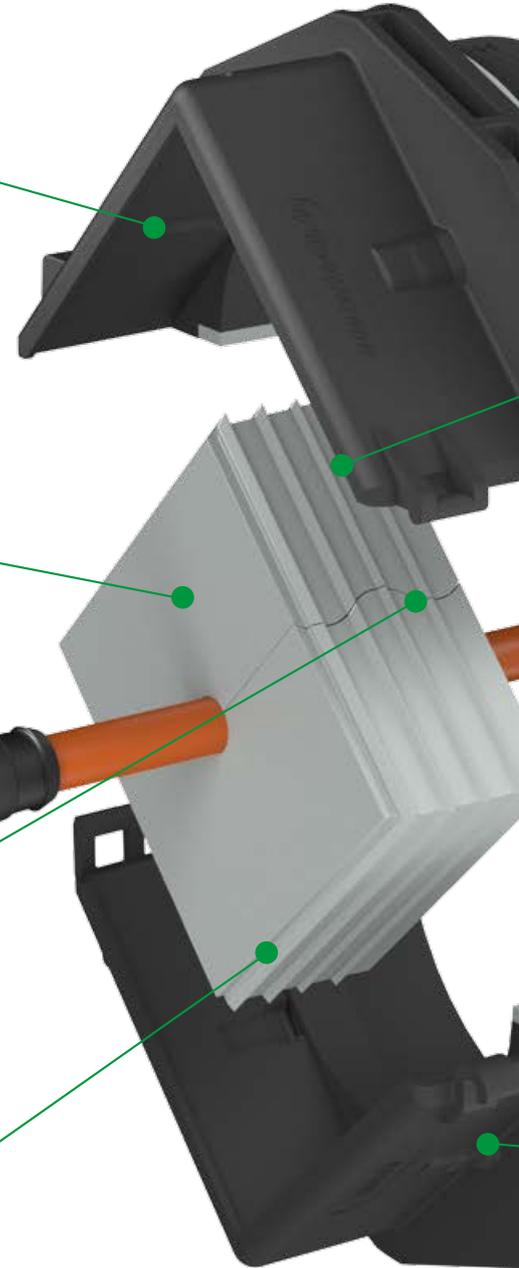
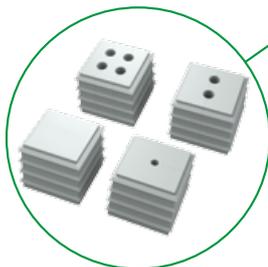
### No loss of warranty with assembled cables

No need to disassemble and reconnect connectors, so manufacturer's warranty is not voided.



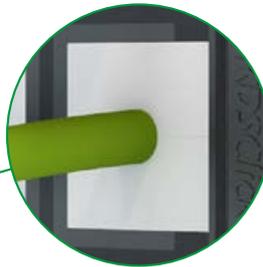
### Versatile, high-density assemblies are possible

1-way, 2-way, and 4-way seals provide you with excellent versatility for cable management.



**IP66****Outstanding IP66 seal**

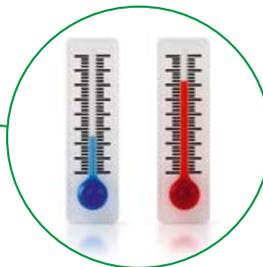
Multi-resistant, tapered seals feature inner and outer sealing gills.

**Integrated strain relief**

The absolute tightness of the seals ensures a strain relief mechanism for the cables working towards accordance with DIN EN 62444.

**Facility availability**

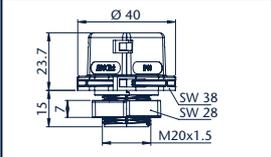
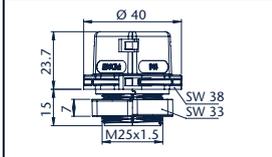
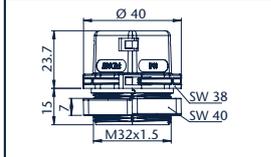
Since the cable gland and the locknut are separable, servicing can be carried out during operations.

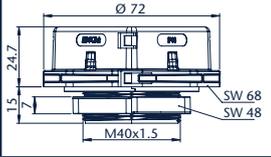
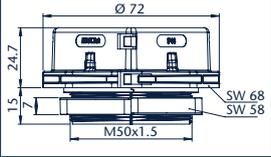
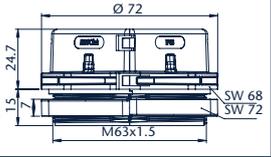
**Can be used from  
-40 °C to +120 °C**

Materials contain no halogen or silicone, suitable for many different applications.

# KDS-KV

## Separable cable glands

Separable cable glands		KDS-KV M20	KDS-KV M25	KDS-KV M32
				
<b>Diagram</b>				
<b>Type</b>		<b>KDS-KV M20 BK</b>	<b>KDS-KV M25 BK</b>	<b>KDS-KV M32 BK</b>
<b>Cat. no.</b>	<b>Qty.</b>	28610.4 <b>10</b>	28611.4 <b>10</b>	28612.4 <b>10</b>
<b>Description</b>		Separable cable gland, including separable locknut	Separable cable gland, including separable locknut	Separable cable gland, including separable locknut
<b>Cable diameter, mm</b>				
KDS-DE		1-13	1-14	1-14
<b>Accessories</b>				
<b>Locknut</b>		<b>KDS-GM 20 BK</b>	<b>KDS-GM 25 BK</b>	<b>KDS-GM 32 BK</b>
<b>Cat. no.</b>	<b>Qty.</b>	28616.4 <b>10</b>	28617.4 <b>10</b>	28618.4 <b>10</b>
<b>Description</b>		Separable locknut	Separable locknut	Separable locknut
<b>Seals</b>				
<b>small</b>		<b>KDS-DE</b>	<b>KDS-DE</b>	<b>KDS-DE</b>
<b>Cat. no.</b>		Page 32/33	Page 32/33	Page 32/33
<b>Tightening torque of lock nut, in Nm</b>		4	4	4
<b>Combinations</b>				

Separable cable glands		KDS-KV M40	KDS-KV M50	KDS-KV M63
				
Diagram				
Type		<b>KDS-KV M40 BK</b>	<b>KDS-KV M50 BK</b>	<b>KDS-KV M63 BK</b>
Cat. no.	Qty.	28613.4	5 28614.4	5 28615.4
Description		Separable cable gland, including separable locknut	Separable cable gland, including separable locknut	Separable cable gland, including separable locknut
Cable diameter, mm		14-33	14-33	14-33
Accessories				
Locknut		<b>KDS-GM 40 BK</b>	<b>KDS-GM 50 BK</b>	<b>KDS-GM 63 BK</b>
Cat. no.	Qty.	28619.4	5 28620.4	5 28621.4
Description		Separable locknut	Separable locknut	Separable locknut
Seals large		<b>KDS-DEG</b>	<b>KDS-DEG</b>	<b>KDS-DEG</b>
Cat. no.		Page 32/33	Page 32/33	Page 32/33
Tightening torque of lock nut, in Nm		7	7	7
Combinations				



## Features

- Material: polyamide PA 6.6
- Glass-fibre reinforced | TPE
- Colour: black
- Flammability: UL 94 V-0
- Temperature range: -40 °C to +120 °C
- Halogen-free, silicone-free
- Protection: IP66

# Actuating tool KDS BW 1

Using the KDS BW1 actuating tool, the seals can be conveniently mounted in and dismantled from the frame. The ergonomic grip and the special shape enable simple and precise installations, especially for cabling applications in confined spaces.



## Actuating tool



## KDS BW 1

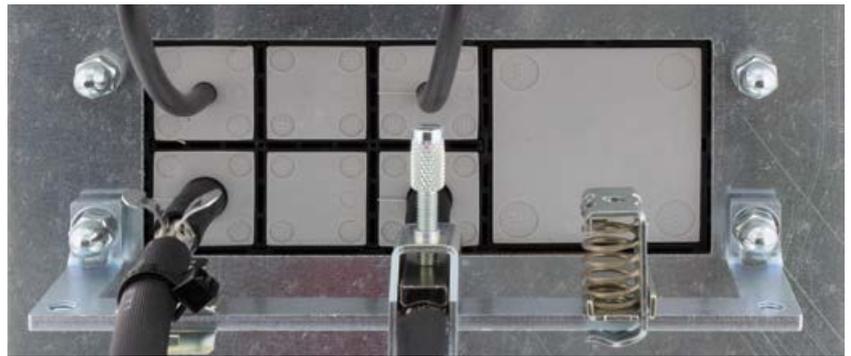


Type	KDS BW 1
Cat. no.	28622.0
Description	Actuating tool
Material	PA 6.6
Colour	varies
Qty.	1

# Shield-connection rails KDS-EMV-SAB

The KDS-EMV-SAB shield-connection rails, when used together with our different shield-connection clips, enable cables to be shielded in a quick, practical and uncomplicated process. The cables can be routed through the CONTA-CLIP cable entry systems into housings or switchgear cabinets.

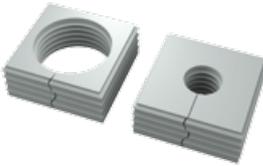
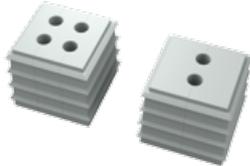
The KDS-EMV-SAB shield-connection rails are fastened on the inside of the switchgear cabinet using screws, which are required for mounting the KDS/KES system. The appropriate shield clip (depending on the cable diameter) can then be snapped onto the shield-connection rail. The shield-connection clips/brackets are optionally available with a built-in strain relief function.



Shield-connection rails	KDS-EMV-SAB 1-4	KDS-EMV-SAB 6/10
Diagram		
Type	<b>KDS-EMV-SAB 1-4</b>	<b>KDS-EMV-SAB 6/10</b>
Cat. no.	28623.0	28624.0
Qty.	<b>10</b>	<b>10</b>
Suitable for	KDS-SR 1-4 BK	KDS-SR 6/10 BK

Shield-connection rails	KDS-EMV-SAB 8/16	KDS-EMV-SAB 10/24
Diagram		
Type	<b>KDS-EMV-SAB 8/16</b>	<b>KDS-EMV-SAB 10/24</b>
Cat. no.	28625.0	28626.0
Qty.	<b>10</b>	<b>10</b>
Suitable for	KDS-SR 8/16 BK	KDS-SR 10/24 BK KES.../24 KES-CB.../24

# Seals for all KDS systems

Seals	grey small		
	Type	Cat. no.	Qty. Max. Ø
	KDS-DE/B GR	28561.6	10 Blind
	KDS-DE 1.5-2 GR	28562.6	10 2 mm
	KDS-DE 2-3 GR	28563.6	10 3 mm
	KDS-DE 3-4 GR	28564.6	10 4 mm
	KDS-DE 4-5 GR	28565.6	10 5 mm
	KDS-DE 5-6 GR	28566.6	10 6 mm
	KDS-DE 6-7 GR	28567.6	10 7 mm
	KDS-DE 7-8 GR	28568.6	10 8 mm
	KDS-DE 8-9 GR	28569.6	10 9 mm
	KDS-DE 9-10 GR	28570.6	10 10 mm
	KDS-DE 10-11 GR	28571.6	10 11 mm
	KDS-DE 11-12 GR	28572.6	10 12 mm
	KDS-DE 12-13 GR	28573.6	10 13 mm
	KDS-DE 13-14 GR	28574.6	10 14 mm
	KDS-DE 14-15 GR	28609.6	10 15 mm
	KDS-DE 15-16 GR	28671.6	10 16 mm
Seals	grey large		
	KDS-DEG/B GR	28575.6	10 Blind
	KDS-DEG 14-15 GR	28576.6	10 15 mm
	KDS-DEG 15-16 GR	28577.6	10 16 mm
	KDS-DEG 16-17 GR	28578.6	10 17 mm
	KDS-DEG 17-18 GR	28579.6	10 18 mm
	KDS-DEG 18-19 GR	28580.6	10 19 mm
	KDS-DEG 19-20 GR	28581.6	10 20 mm
	KDS-DEG 20-21 GR	28582.6	10 21 mm
	KDS-DEG 21-22 GR	28583.6	10 22 mm
	KDS-DEG 22-23 GR	28584.6	10 23 mm
	KDS-DEG 23-24 GR	28585.6	10 24 mm
	KDS-DEG 24-25 GR	28586.6	10 25 mm
	KDS-DEG 25-26 GR	28587.6	10 26 mm
	KDS-DEG 26-27 GR	28588.6	10 27 mm
	KDS-DEG 27-28 GR	28589.6	10 28 mm
	KDS-DEG 28-29 GR	28590.6	10 29 mm
	KDS-DEG 29-30 GR	28591.6	10 30 mm
KDS-DEG 30-31 GR	28592.6	10 31 mm	
KDS-DEG 31-32 GR	28593.6	10 32 mm	
KDS-DEG 32-33 GR	28594.6	10 33 mm	
Seals with multiple holes	grey		
	KDS-DE 2 x 4-5 GR	28595.6	10 5 mm
	KDS-DE 2 x 5-6 GR	28596.6	10 6 mm
	KDS-DE 2 x 6.5 GR	28607.6	10 6.5 mm
	KDS-DE 4 x 2-3 GR	28597.6	10 3 mm
	KDS-DE 4 x 3-4 GR	28598.6	10 4 mm
	KDS-DE 4 x 4.5 GR	28606.6	10 4.5 mm
	KDS-DE 4 x 5 GR	28673.6	10 5 mm
Seals for AS interface cables	grey		
	KDS-DE/1 x ASI GR	28599.6	10
	KDS-DE/2 x ASI GR	28600.6	10



IP66

NEMA  
TYPE  
12NEMA  
TYPE  
4XECOLAB  
certifiedRoHS  
compliantMade in  
Germany

## Features

- Material: TPE
- Flammability: UL 94 V-0
- Temperature range: -40 °C to +90 °C (static)
- Halogen-free, silicone-free
- Protection: IP66

Seals



black small			
Type	Cat. no.	Qty.	Max. Ø
KDS-DE/B BK	28520.4	10	Blind
KDS-DE 1.5-2 BK	28521.4	10	2 mm
KDS-DE 2-3 BK	28522.4	10	3 mm
KDS-DE 3-4 BK	28523.4	10	4 mm
KDS-DE 4-5 BK	28524.4	10	5 mm
KDS-DE 5-6 BK	28525.4	10	6 mm
KDS-DE 6-7 BK	28526.4	10	7 mm
KDS-DE 7-8 BK	28527.4	10	8 mm
KDS-DE 8-9 BK	28528.4	10	9 mm
KDS-DE 9-10 BK	28529.4	10	10 mm
KDS-DE 10-11 BK	28530.4	10	11 mm
KDS-DE 11-12 BK	28531.4	10	12 mm
KDS-DE 12-13 BK	28532.4	10	13 mm
KDS-DE 13-14 BK	28533.4	10	14 mm
KDS-DE 14-15 BK	28608.4	10	15 mm
KDS-DE 15-16 BK	28670.4	10	16 mm

Seals



black large			
KDS-DEG/B BK	28534.4	10	Blind
KDS-DEG 14-15 BK	28535.4	10	15 mm
KDS-DEG 15-16 BK	28536.4	10	16 mm
KDS-DEG 16-17 BK	28537.4	10	17 mm
KDS-DEG 17-18 BK	28538.4	10	18 mm
KDS-DEG 18-19 BK	28539.4	10	19 mm
KDS-DEG 19-20 BK	28540.4	10	20 mm
KDS-DEG 20-21 BK	28541.4	10	21 mm
KDS-DEG 21-22 BK	28542.4	10	22 mm
KDS-DEG 22-23 BK	28543.4	10	23 mm
KDS-DEG 23-24 BK	28544.4	10	24 mm
KDS-DEG 24-25 BK	28545.4	10	25 mm
KDS-DEG 25-26 BK	28546.4	10	26 mm
KDS-DEG 26-27 BK	28547.4	10	27 mm
KDS-DEG 27-28 BK	28548.4	10	28 mm
KDS-DEG 28-29 BK	28549.4	10	29 mm
KDS-DEG 29-30 BK	28550.4	10	30 mm
KDS-DEG 30-31 BK	28551.4	10	31 mm
KDS-DEG 31-32 BK	28552.4	10	32 mm
KDS-DEG 32-33 BK	28601.4	10	33 mm

Seals with multiple holes



black			
KDS-DE 2 x 4-5 BK	28555.4	10	5 mm
KDS-DE 2 x 5-6 BK	28556.4	10	6 mm
KDS-DE 2 x 6.5 BK	28682.4	10	6.5 mm
KDS-DE 4 x 2-3 BK	28557.4	10	3 mm
KDS-DE 4 x 3-4 BK	28558.4	10	4 mm
KDS-DE 4 x 4.5 BK	28681.4	10	4.5 mm
KDS-DE 4 x 5 BK	28672.4	10	5 mm

Seals for AS interface cables



black			
KDS-DE/1 x ASI BK	28559.4	10	
KDS-DE/2 x ASI BK	28560.4	10	

Cone-shaped seals



black			
KDS-DE/K 2-11 BK	28553.4	10	11 mm
KDS-DEG/K 7-24 BK	28554.4	10	24 mm

	<b>IP66</b>	<b>NEMA TYPE 12</b>	<b>NEMA TYPE 4X</b>
	<b>RoHS certified</b>	<b>Made in Germany</b>	

## Features

- Material: TPE
- Flammability: UL94 HB
- Temperature range: -40 °C to +120 °C (static)
- Halogen-free, silicone-free
- High chemical resistance
- UV-stabilized
- Protection: IP66

# KES

## Cable entries

When feeding in non-assembled cables, lines and pneumatic hoses (without connected plugs), CONTA-CLIP has a wide range of products that offer alternatives to cable glands or single-membrane feed-throughs.

The KES cable entries are very flat; they enable space-saving professional cable entries with a very tight seal.

Due to its high assembly density, the KES system is well suited for applications where the installations are carried out in confined spaces.



### Your advantages

- Can be screwed / snapped on
- Very high stability (core: PA 6.6 GF)
- Outstanding strain relief (cone grommet)
- Very simple assembly  
(with marked centring point)
- High-density assemblies
- Double sealing / IP66 seal
- Hygienic design: no dirt-prone niches
- Large assortment (48 varieties)
- UL-listed plastic materials
- UL 94 V-0

# KES

## Cable entries

### Two components

The KES system consists of two components. The inner core, made of polyamide PA 6.6 GF, is crucial for the stability and strain relief; it is over-moulded in the sealing areas with TPE to ensure an IP66 seal.



### Many cables in a confined space

Many cables (with various diameters from 3.2 to 20.5 mm) can be inserted in a confined space and double sealed (IP66) thanks to the special construction of the conical grommets. The installation can use a screw-on outer mount optionally using threaded bushes from the inside, or snapping on without screws.

In order to insert the cables, the corresponding membrane (with marked centring point) must be pierced; the cables are then simply guided through.



### UL 94 V-0 classification

The KES is designed for use in mounting cut-outs together with 24-pin heavy-duty connectors. All variants are available in grey and black. The materials used comply with the UL 94 V-0 classification.

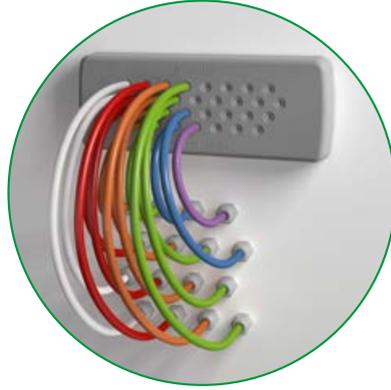


# KES Cable entries

## An overview of your advantages

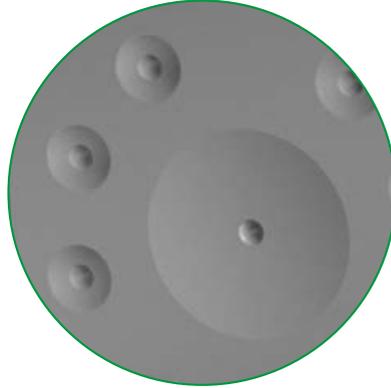
### High-density assemblies

In contrast to the classic cable gland, the KES allows many cables, hoses and lines to be installed in a space-saving manner, even in cramped installation conditions.



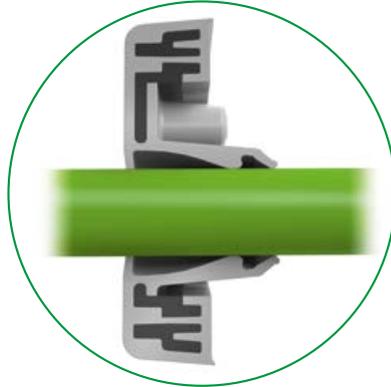
### Very precise

The piercing points are clearly marked so that cables and hoses can be centred precisely.



### Integrated strain relief

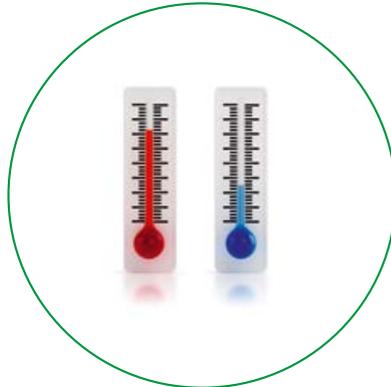
The special shape of the multi-layered membrane cone grommet ensures an optimal strain relief mechanism for the cables, in accordance with DIN EN 62444.



### Can be used from

**-40 °C to +90 °C**

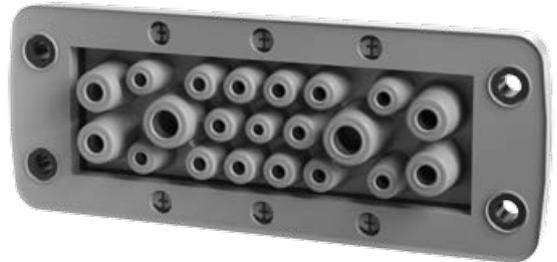
Materials contain no halogen or silicone; suitable for many different applications.



# Wide variety of KES variants

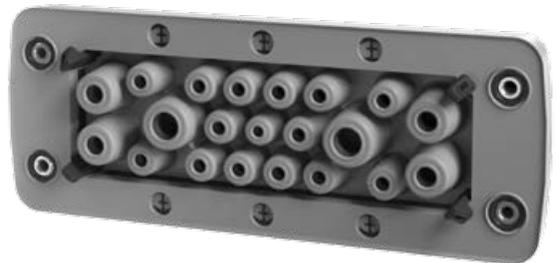
You can choose one of three attachment options to fit your requirements.

## 1. Screw-on mount



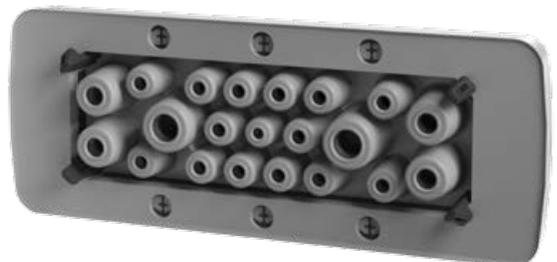
The KES (without threaded bush) is screwed from the outside onto the housing wall.

## 2. Screw-on mount with threaded bushes and latching clips



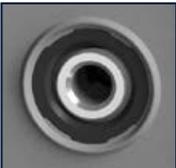
Using the latching clips, the KES-GB latches onto the outside of the housing wall. It is then screwed on from the inside, through the housing wall, using the integrated threaded bushes.

## 3. Latched (snap-on) mount using latching hooks



The KES-R is latched from outside to the housing wall using the latching clips.

# KES Cable entries

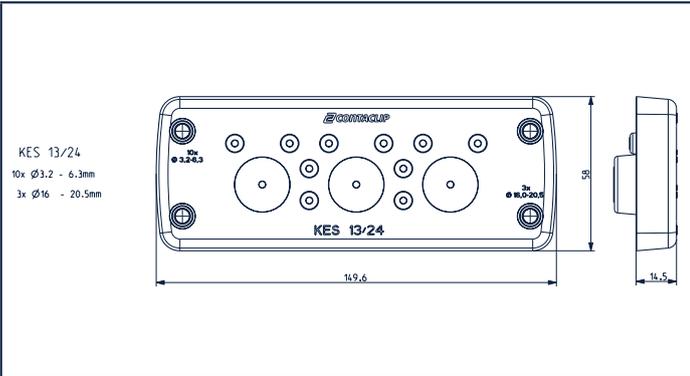
Cable entries		KES 13/24	KES 14/24	KES 16/24
				
<b>Diagram</b>		Page 40	Page 40	Page 40
<b>Mounting type</b> Screw-on mount				
				
<b>Type / colour</b>		KES 13/24 GR ●	KES 14/24 GR ●	KES 16/24 GR ●
<i>Cat. no.</i>	Qty.	28630.6 10	28631.6 10	28632.6 10
<b>Type / colour</b>		KES 13/24 BK ●	KES 14/24 BK ●	KES 16/24 BK ●
<i>Cat. no.</i>	Qty.	28630.4 10	28631.4 10	28632.4 10
<b>Mounting type</b> Screw-on mount, with pressed-in threaded bush				
				
<b>Type / colour</b>		KES-GB 13/24 GR ●	KES-GB 14/24 GR ●	KES-GB 16/24 GR ●
<i>Cat. no.</i>	Qty.	28640.6 10	28641.6 10	28642.6 10
<b>Type / colour</b>		KES-GB 13/24 BK ●	KES-GB 14/24 BK ●	KES-GB 16/24 BK ●
<i>Cat. no.</i>	Qty.	28640.4 10	28641.4 10	28642.4 10
<b>Mounting type</b> Tool-free latch-on mount				
				
<b>Type / colour</b>		KES-R 13/24 GR ●	KES-R 14/24 GR ●	KES-R 16/24 GR ●
<i>Cat. no.</i>	Qty.	28650.6 10	28651.6 10	28652.6 10
<b>Type / colour</b>		KES-R 13/24 BK ●	KES-R 14/24 BK ●	KES-R 16/24 BK ●
<i>Cat. no.</i>	Qty.	28650.4 10	28651.4 10	28652.4 10
<b>Connection data</b>				
Number of cables x cable diameter		10 x 3.2–6.3 3 x 16–20.5	5 x 3.2–6.3 2 x 4-7.5 3 x 5.5-10.5 1 x 8-12.5 3 x 12-16.2	8 x 3.2–5.5 6 x 5–8.5 2 x 9.5–14.5
<b>Features</b>				
Material of frame / sealing plate		PA 6.6 GF / elastomer	PA 6.6 GF / elastomer	PA 6.6 GF / elastomer
Temperature range		-40 to +90 °C	-40 to +90 °C	-40 to +90 °C
Protection		IP66	IP66	IP66
Flammability class		UL 94 V-0	UL 94 V-0	UL 94 V-0
<b>Sheet-metal puncher</b>		Sheet-metal puncher	Sheet-metal puncher	Sheet-metal puncher
<i>Cat. no.</i>		Page 43	Page 43	Page 43



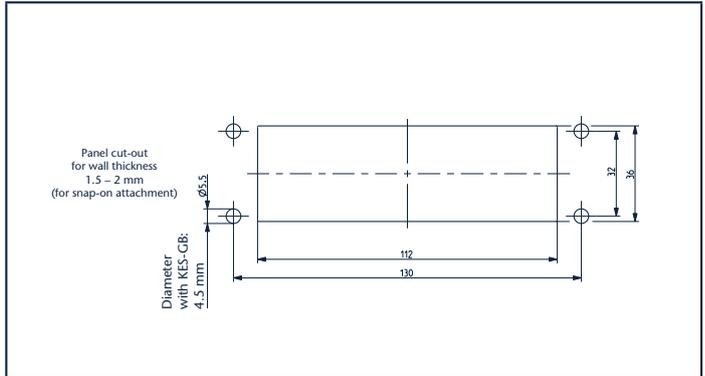
# KES: dimensional drawings / mounting cut-outs Cable entries

## KES 13/24

### Dimension diagram



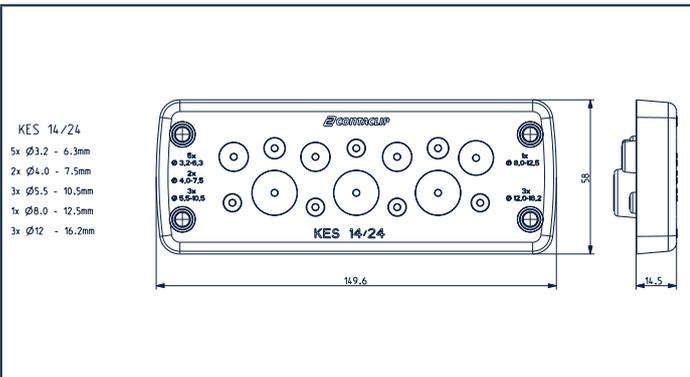
### Mounting cut-out



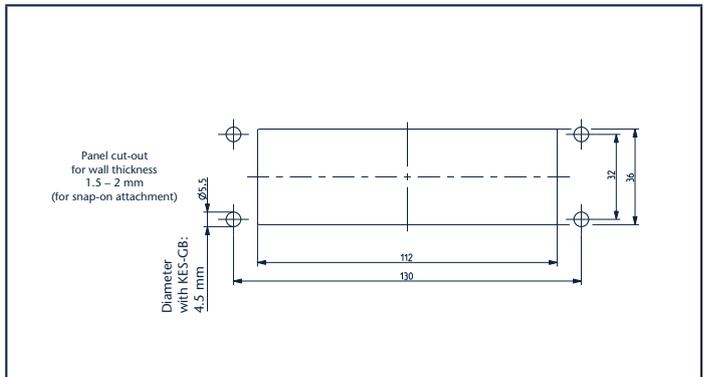
Torque for the frame's mounting screw: 2.5 – 3 Nm

## KES 14/24

### Dimension diagram



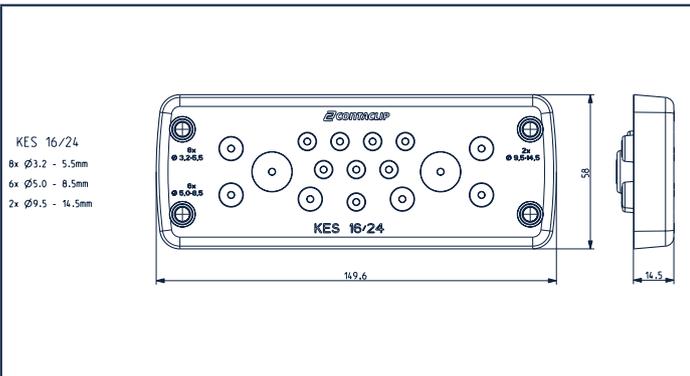
### Mounting cut-out



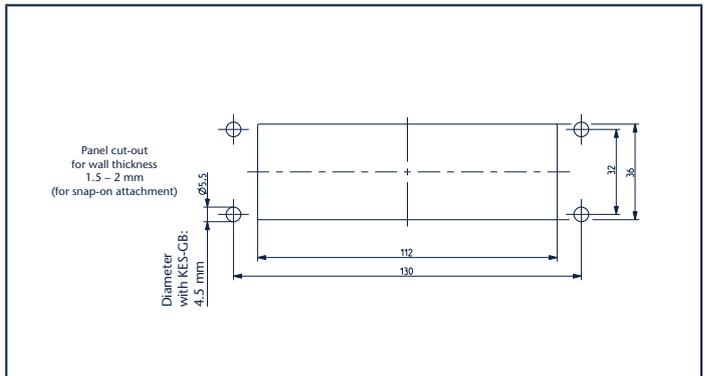
Torque for the frame's mounting screw: 2.5 – 3 Nm

## KES 16/24

### Dimension diagram



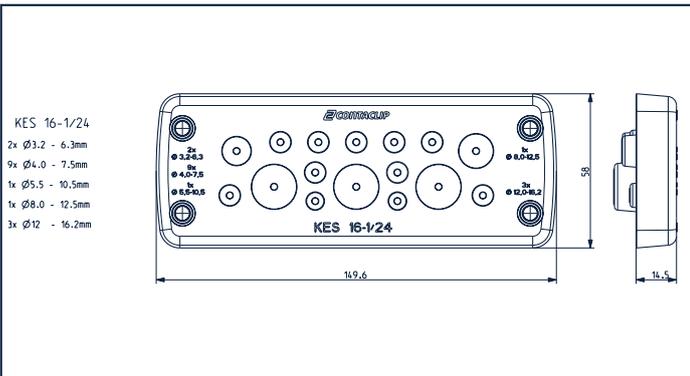
### Mounting cut-out



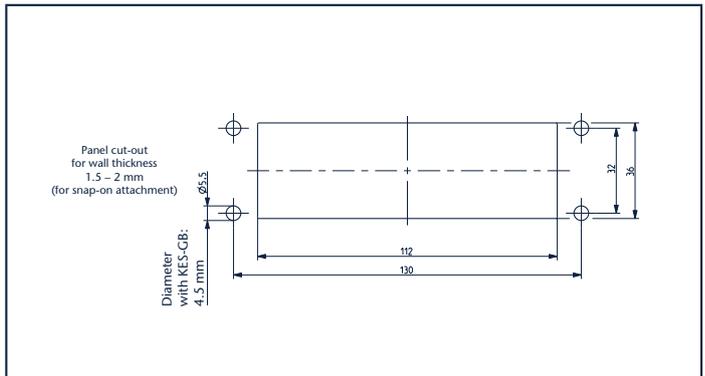
Torque for the frame's mounting screw: 2.5 – 3 Nm

## KES 16-1/24

### Dimension diagram



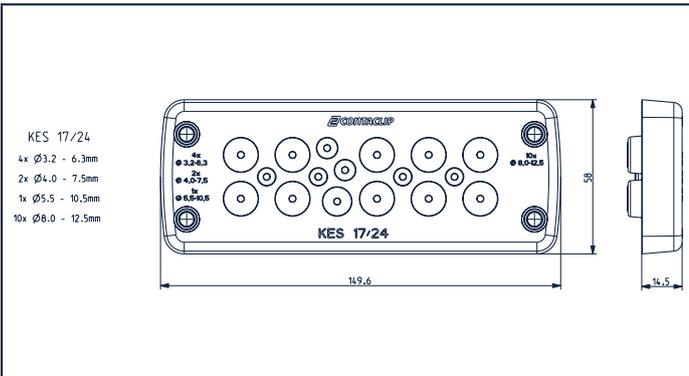
### Mounting cut-out



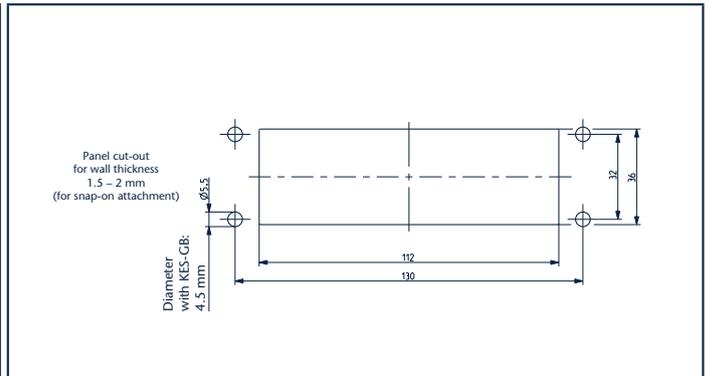
Torque for the frame's mounting screw: 2.5 – 3 Nm

**KES 17/24**

**Dimension diagram**



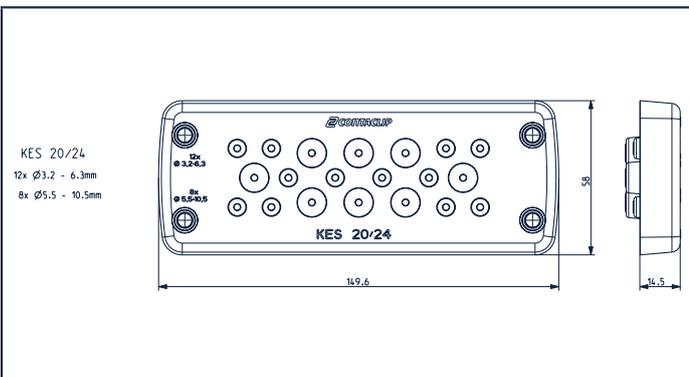
**Mounting cut-out**



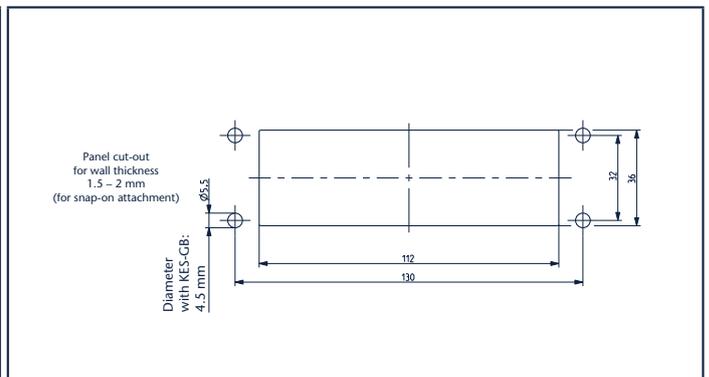
Torque for the frame's mounting screw: 2.5 – 3 Nm

**KES 20/24**

**Dimension diagram**



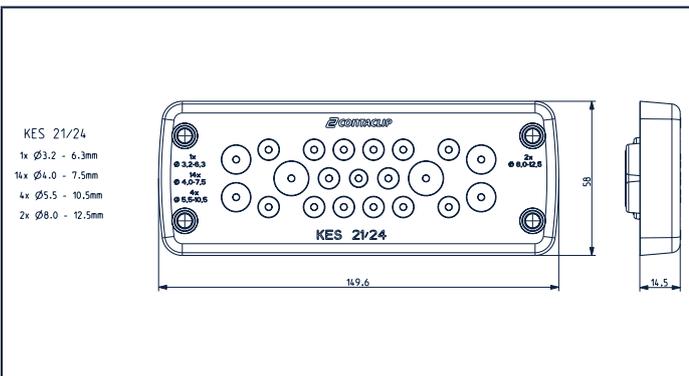
**Mounting cut-out**



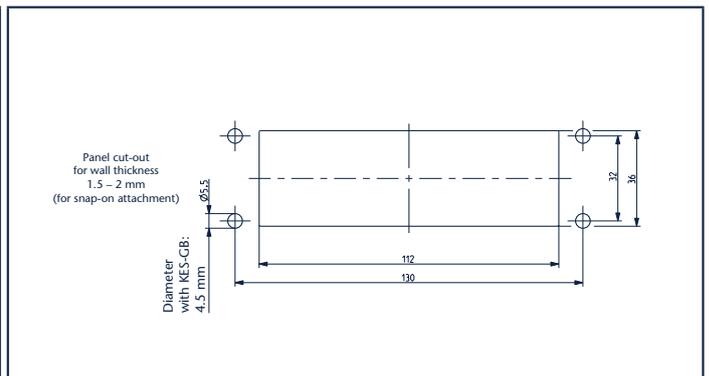
Torque for the frame's mounting screw: 2.5 – 3 Nm

**KES 21/24**

**Dimension diagram**



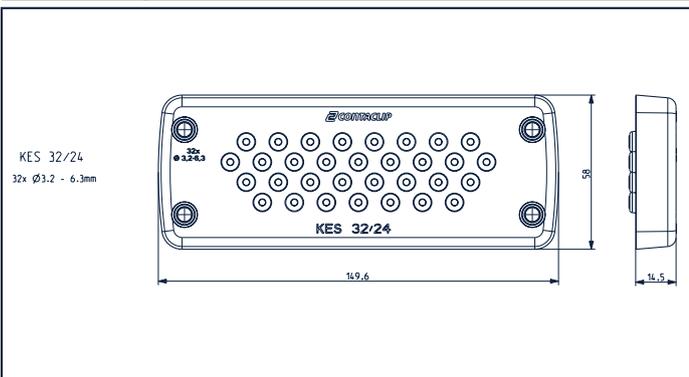
**Mounting cut-out**



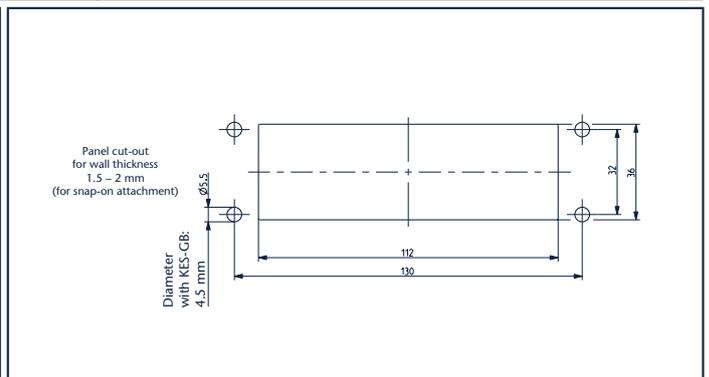
Torque for the frame's mounting screw: 2.5 – 3 Nm

**KES 32/24**

**Dimension diagram**



**Mounting cut-out**



Torque for the frame's mounting screw: 2.5 – 3 Nm

# Hydraulic pumps

## Hydraulic foot pump

The hydraulic foot pump is compatible with all standard square, rectangular and custom-shaped sheet metal holes. When using the foot pump, the operator has both hands free to precisely position and make the punch on the switchgear cabinet. The support frame straddles the foot pump; this ensures that it will not tip over or shake during operations.

## Hydraulic hand pump

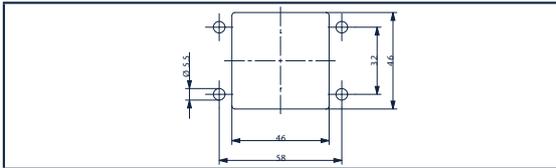
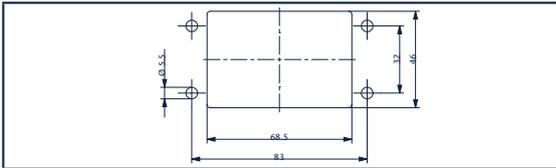
The hydraulic hand pump is compatible with all standard square, rectangular and custom-shaped sheet metal holes. By using a 60-cm long hydraulic hose, punching can also be carried out in cramped installation conditions.

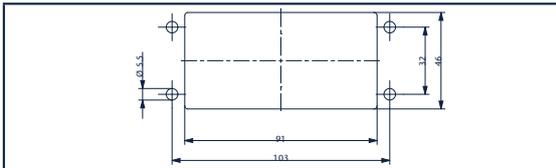
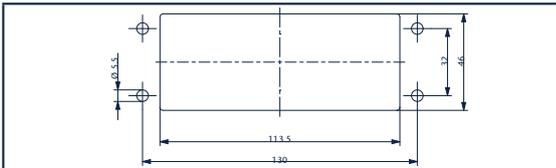
Hydraulic pumps		Hydraulic foot pump	Hydraulic hand pump
			
<b>Type</b>		Hydraulic foot pump for sheet-metal puncher	Hydraulic hand pump for sheet-metal puncher
<b>Cat. no.</b>	<b>Qty.</b>	28678.0	28679.0
<b>Consisting of</b>		One hydraulic cylinder with quick coupling One hydraulic hose (2.8 m) One draw bolt Ø 19.0 and 19.0 x 9.5 mm One spacer set (5-piece) One primary reamer (Ø 11.0 mm)	One Compact Flex™ manual hydraulic punch One draw bolt Ø 19.0 One draw bolt Ø 19.0 x 9.5 mm One HSS primary reamer (Ø 11.0 mm) One spacer set (3-piece)
<b>Features</b>			
Tank capacity		270 cm <sup>3</sup>	
Usable oil volume		210 cm <sup>3</sup>	
Discharge flow		1.7 cm <sup>3</sup> per piston stroke	
Max. operating pressure		700 bar	680 bar
Punching force		75 kN	75 kN
Hydraulic hose length		2.8 m	0.6 m
Weight		13.0 kg	2.0 kg

# Sheet-metal puncher

## Sheet-metal puncher for KDS/KES break-outs

Using the sheet-metal puncher, you can produce the desired break-outs, without any chips, in just a few minutes. The built-in punch-hole marking tip can be used to punch-mark the drill points clearly for the screw-on attachment. These sheet-metal punchers are compatible with all common hydraulic pumps.

Sheet-metal puncher	BL KDS-SR 1-4	BL KDS-SR 6/10
		
Diagram		
Type	<b>BL KDS-SR 1-4</b>	<b>BL KDS-SR 6/10</b>
Cat. no.	28674.0	28675.0
Qty.	1	1
Max. material thickness	2.0 mm, for S 235 sheet metal	2.0 mm, for S 235 sheet metal
Type	<b>BL-VA KDS-SR 1-4</b>	<b>BL-VA KDS-SR 6/10</b>
Cat. no.	28683.0	28684.0
Qty.	1	1
Max. material thickness	2.0, with stainless steel sheet	2.0 mm, with stainless steel sheet
Suitable for	KDS-SR 1-4	KDS-SR 6/10

Sheet-metal puncher	BL KDS-SR 8/16	BL KDS-SR 10/24
		
Diagram		
Type	<b>BL KDS-SR 8/16</b>	<b>BL KDS-SR 10/24</b>
Cat. no.	28676.0	28677.0
Qty.	1	1
Max. material thickness	2.0 mm, for S 235 sheet metal	2.0 mm, for S 235 sheet metal
Type	<b>BL-VA KDS-SR 8/16</b>	<b>BL-VA KDS-SR 10/24</b>
Cat. no.	28685.0	28686.0
Qty.	1	1
Max. material thickness	2.0 mm, with stainless steel sheet	2.0 mm, with stainless steel sheet
Suitable for	KDS-SR 8/16	KDS-SR 10/24 KES KES-GB
		<b>Attention: not suitable for the KES-R</b>

# Shield-connection clip

In the field of industrial process engineering, a high degree of interference immunity is required of electrical equipment. This is a critical factor affecting the availability of industrial measurement and control systems.

When constructing low-interference systems, both the cable shielding and the shielded ground are very important. The juncture 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 shielding systems are one of the most comprehensive product portfolios on the market. They offer a perfect solution for any application.



## Overview of installation types

### Direct mounting



SAB...D  
Page 53



SABKM.../D  
Page 52

### C-rail mounting



SAB ... GWP  
Page 57

### Busbar mounting



SABKM.../SSCH/Z  
Page 54



SABKMD.../SSCH/Z  
Page 54



SAB  
Page 55



SSAB  
Page 56

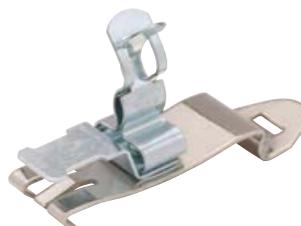
### Mounting on the DIN rail



SAB.../F  
Page 59



SAB .../MF  
Page 60



SABKM.../MF/35/Z  
Page 58

# Shield-connection bracket SABK

The stripped cable is easily pushed into the SABK shield-connection bracket. The spring force in the bracket then ensures that the shield has a consistently good contact.

The large contact areas ensure excellent dissipation of interference current.

The SABK can be used with the mounting feet for various mounting platforms (e.g. on DIN rail, busbar, or for direct installation).

The SABK for the proper shield diameter is mounted by simply clipping it on (no tools required).



## Your advantages

- The spring exerts continuous contact force on the cable shield
- High conductivity
- Very good dissipation of high-frequency interference current
- No tools are required: all sizes can be snapped onto the various mounting feet

Shield-connection bracket		SABK 3	SABK 6	SABK 8
				
<b>Mounting type</b>		Direct mounting	Direct mounting	Direct mounting
<b>Type</b>		<b>SABK 3</b>	<b>SABK 6</b>	<b>SABK 8</b>
<b>Cat. no.</b>	<b>Qty.</b>	17970.0	17971.0	17972.0
		25	25	25
<b>Cable diameter Ø</b>		1.5 – 3 mm	3 – 6 mm	6 – 8 mm
<b>Material</b>		Steel	Steel	Steel

Shield-connection bracket		SABK 11	SABK 16
			
<b>Mounting type</b>		Direct mounting	Direct mounting
<b>Type</b>	<b>Qty.</b>	<b>SABK 11</b>	<b>SABK 16</b>
<b>Cat. no.</b>		17973.0	17974.0
		25	25
<b>Cable diameter Ø</b>		8 – 11 mm	11 – 16 mm
<b>Material</b>		Steel	Steel

# Shield-connection bracket Multi SABKM

The SABKM Multi shield-connection bracket differs from conventional shielding brackets because of its two specially shaped bracket legs.

These legs produce force on both sides so that a very large cable clamping range is attained. The stripped cable is easily pushed into the SABKM Multi. The spring force in the bracket then ensures that the shield has a consistently good contact.

The large contact surfaces ensure that any interference current is reliably dissipated.

The SABKM Multi can be used with the mounting feet for various mounting platforms (e.g. on DIN rail, busbar, or for direct installation).

The SABKM Multi for the proper shield diameter is mounted by simply clipping it on (no tools required).



## Your advantages

- Large clamping range: therefore less individual parts
- The spring force provides consistently good contact to the cable shield
- High conductivity
- Very good dissipation of high-frequency interference current
- No tools are required: all sizes can be snapped onto the various mounting feet

Shield-connection bracket	SABKM 12	SABKM 18
		
<b>Mounting type</b>	Direct mounting	Direct mounting
<b>Type</b>	<b>SABKM 12</b>	<b>SABKM 18</b>
<b>Cat. no.</b>	<b>17975.0</b>	<b>17976.0</b>
<b>Qty.</b>	<b>25</b>	<b>25</b>
<b>Cable diameter Ø</b>	3 – 12 mm	7 – 18 mm
<b>Material</b>	Steel	Steel

# Mounting foot MF-SABK/D for direct mounting

The mounting foot for the shield-connection bracket is used as a universal holder for the SABK / SABKM, for clamping diameters from 1.5 to 18 mm. It can be installed directly (e.g. screwed directly onto a mounting plate). The properly sized shield-connection bracket is then simply snapped on and the cable shield is pushed in.



## Your advantages

- Direct mounting using M4 screw
- Universal holder for SABK/SABKM, with cable clamping range from 1.5 to 18 mm
- Variable assembly options leads to less product types
- Less parts in your warehouse
- Very compact construction
- Cable tie can be used for strain relief

### Installation of the SABKM shield-connection bracket on the MF-SABK/D mounting foot



1. Screw on the mounting foot



2. Snap on your SABK



3. Press in the cable shield



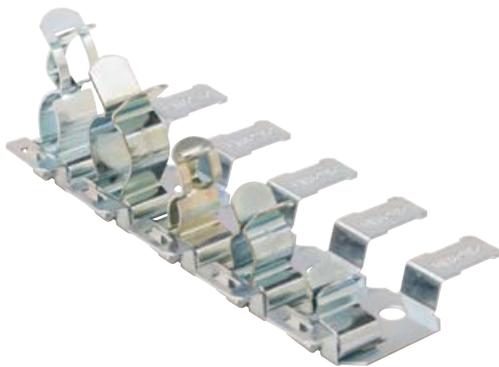
4. Apply strain relief with cable ties

Shield-connection bracket	MF/D M4/Z	MF/D M4
		
<b>Mounting type</b>	Direct mounting	Direct mounting
<b>Description</b>	With strain relief	Without strain relief
<b>Type</b>	MF/D M4/Z	MF/D M4
<b>Cat. no.</b>	17977.0	27217.0
<b>Qty.</b>	1	25
<b>Material</b>	Steel	Steel

# Row-mounted foot RMF/D/Z M4 for direct mounting

The row-mounted foot for direct installation is a universal holder for up to 12 shield-connection brackets, for cable clamping diameters from 1.5 to 18 mm. The row-mounted foot can be shortened to the desired length by breaking it at one of its breakage points. Either screws or rivets can be used to secure it in position.

## Installation of the SABKM shield-connection bracket on the MF-SABK/D mounting foot



### Your advantages

- Up to 12 cable shields can be attached to a single row-mounted foot.
- Space-saving installation on the mounting plate
- Universal holders for SABK/SABKM, with variable cable clamping ranges from 1.5 to 18 mm
- Breakage points permit versatile customization for your required number of cables.
- Less parts in your warehouse
- Very compact construction
- Cable tie can be used for strain relief

Shield-connection bracket		Row-mounted foot	
			
<b>Mounting type</b>		Direct mounting	
<b>Description</b>		With strain relief	
<b>Type</b>		RMF/D M4/Z	
<b>Cat. no.</b>	<b>Qty.</b>	17986.0	10
<b>Material</b>		Steel	

# Mounting foot MF-SABK/SSCH for mounting on busbar

The mounting foot for installing on a busbar is used as a universal holder for the shield-connection brackets, for cable diameters from 1.5 to 18 mm. Simply snap the mounting foot onto the 10x3mm busbar. Then snap in the corresponding shield-connection bracket and press in the cable shield.



## Your advantages

- Tool-free mounting on a 10x3mm rail
- For shield-connection brackets with a 1.5–18 mm clamping range
- Variable assembly options leads to less product types
- Less parts in your warehouse
- Very compact construction
- Cable tie can be used for strain relief

### Installation of the SABKM shield-connection bracket on the MF-SABK/SSCH mounting foot



1. Screw on the mounting foot



2. Snap on your SABK



3. Press in the cable shield



4. Apply strain relief with cable ties

Mounting foot	MF-SABK/SSCH/Z	MF-SABK/SSCH
		
<b>Mounting type</b>	Busbar mounting	Busbar mounting
<b>Description</b>	With strain relief	Without strain relief
<b>Type</b>	MF-SABK/SSCH/Z	MF-SABK/SSCH
<b>Cat. no.</b>	17979.0	27218.0
<b>Qty.</b>	10	10
<b>Material</b>	Steel	Steel

# Mounting foot MF-SABK/35 for mounting on DIN rails

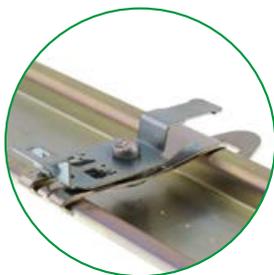
The MF-SABK/35/Z mounting foot (for 35 mm DIN rails) is used as a universal holder for the shield-connection brackets, for cable clamping diameters from 1.5 to 18 mm. Simply snap the mounting foot on the DIN rail. The properly sized shield-connection bracket is then snapped on and the cable shield is pushed in to the shield-connection bracket. The variant with a strain relief bracket provides cable ties to relieve strain.



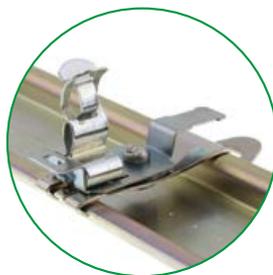
## Your advantages

- Tool-free mounting on 35mm DIN rail
- Universal holder for SABK/SABKM, with cable clamping range from 1.5 to 18 mm
- Variable assembly options leads to less product types
- Less parts in your warehouse
- Cable tie can be used for strain relief

### Installation of the SABKM shield-connection bracket on the MF-SABK/SSCH mounting foot



1. Screw on the mounting foot



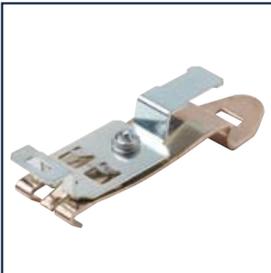
2. Snap on your SABK



3. Press in the cable shield



4. Apply strain relief with cable ties

Mounting foot		MF-SABK/35/Z	MF-SABK/35
			
<b>Mounting type</b>		Mounting on the DIN rail	Mounting on the DIN rail
<b>Description</b>		With strain relief	Without strain relief
<b>Type</b>		MF-SABK/35/Z	MF-SABK/35
<b>Cat. no.</b>	<b>Qty.</b>	17978.0	10
<b>Material</b>		Steel	Steel

# Shield-connection bracket Multi SABK...D for direct mounting

The SABK.../D shield-connection bracket can be installed directly (e.g. screwed directly onto a mounting plate). The cable shield must only be pressed into the SABK in order to establish a reliable contact. The strain relief bracket can be used with a cable tie to relieve strain at the cable sheath.



## Your advantages

- Direct mounting using M4 screw
- Very compact construction
- Reduced product types when the Multi shield-connection bracket is used
- Cable tie can be used for strain relief

Shield-connection bracket	SABKM...D	SABKM...D/Z
		
<b>Mounting type</b>	Direct mounting	Direct mounting
<b>Description</b>	Without strain relief	With strain relief
<b>Cable diameter Ø</b>	3 – 12 mm	3 – 12 mm
<b>Type</b>	<b>SABKM 12/D M4</b>	<b>SABKM 12/D M4/Z</b>
<i>Cat. no.</i>	<b>Qty.</b> 27246.0	17984.0
<b>Drill hole diameter Ø</b>	4.2 mm	4.2 mm
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	7 – 18 mm	7 – 18 mm
<b>Type</b>	<b>SABKM 18/D M4</b>	<b>SABKM 18/D M4/Z</b>
<i>Cat. no.</i>	<b>Qty.</b> 27247.0	17985.0
<b>Drill hole diameter Ø</b>	4.2 mm	4.2 mm
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	17 – 22 mm	17 – 22 mm
<b>Type</b>	<b>SABKM 22/D M4</b>	<b>SABKM 22/D M4/Z</b>
<i>Cat. no.</i>	<b>Qty.</b> 27248.0	27220.0
<b>Drill hole diameter Ø</b>	4.2 mm	4.2 mm
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	23 – 29 mm	23 – 29 mm
<b>Type</b>	<b>SABKM 29/D M4</b>	<b>SABKM 29/D M4/Z</b>
<i>Cat. no.</i>	<b>Qty.</b> 27249.0	27221.0
<b>Drill hole diameter Ø</b>	4.2 mm	4.2 mm
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	16 – 35 mm	
<b>Type</b>	<b>SABKM 35/D M4</b>	
<i>Cat. no.</i>	<b>Qty.</b> 27256.0	5
<b>Drill hole diameter Ø</b>	4.2 mm	
<b>Material</b>	Steel	
<b>Cable diameter Ø</b>	35 – 65 mm	
<b>Type</b>	<b>SABKM 65/D M4</b>	
<i>Cat. no.</i>	<b>Qty.</b> 27257.0	5
<b>Drill hole diameter Ø</b>	4.2 mm	
<b>Material</b>	Steel	

# Shield-connection clip SAB...D for direct mounting

The SAB.../D shield-connection clip can be used for direct mounting installations. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact.

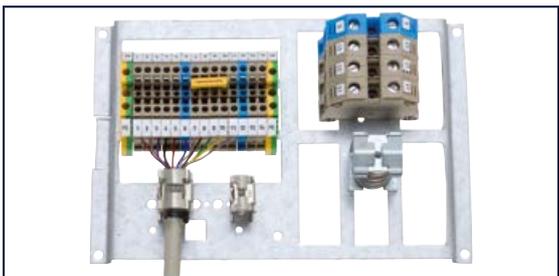
The SAB.../D can be installed with an M4 screw (included in delivery) directly to the mounting plate.

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.



## Your advantages

- Tool-free installation
- Quick snap-on or mounting of the shield-connection clip
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Easy to work with

Shield-connection clip	SAB...D
	
<b>Mounting type</b>	Direct mounting
<b>Type</b>	SAB 8/D
<b>Cat. no.</b>	1549.0
<b>Qty.</b>	10
<b>Cable diameter Ø</b>	3 – 8 mm
<b>Screw</b>	M 4
<b>Material</b>	Steel
<b>Type</b>	SAB 8/D/M5
<b>Cat. no.</b>	1526.0
<b>Qty.</b>	10
<b>Cable diameter Ø</b>	3 – 8 mm
<b>Screw</b>	M 4
<b>Material</b>	Steel
<b>Type</b>	SAB 13.5/D
<b>Cat. no.</b>	1550.0
<b>Qty.</b>	10
<b>Cable diameter Ø</b>	4 – 13.5 mm
<b>Screw</b>	M 4
<b>Material</b>	Steel
<b>Type</b>	SAB 20/D
<b>Cat. no.</b>	1551.0
<b>Qty.</b>	10
<b>Cable diameter Ø</b>	10 – 20 mm
<b>Screw</b>	M 4
<b>Material</b>	Steel
<b>Type</b>	SAB 32/D
<b>Cat. no.</b>	17361.0
<b>Qty.</b>	10
<b>Cable diameter Ø</b>	15 – 32 mm
<b>Screw</b>	M 4
<b>Material</b>	Steel

# Shield-connection bracket Multi SABKM.../SSCH M4 on mounting foot for busbar mounting

The Multi shield-connection clamp (on mounting foot) can be snapped onto a 10 x 3mm busbar without using any tools. The cable shield must only be pressed into the Multi shield-connection bracket in order to establish a reliable contact. The strain relief clip can be used with a cable tie to relieve strain.



## Your advantages

- No tools required to mount on a 10x3mm busbar
- Extremely compact construction
- Cable tie can be used for strain relief

Shield-connection bracket	SABKM.../SSCH	SABKM.../SSCH	SABKMD.../SSCH	SABKMD.../SSCH/Z
<b>Mounting type</b>	Busbar mounting	Busbar mounting	Busbar mounting	Busbar mounting
<b>Description</b>	Without strain relief	With strain relief	Without strain relief	With strain relief
<b>Type</b>	<b>SABKM 12/SSCH</b>	<b>SABKM 12/SSCH/Z</b>	<b>SABKD 1.5-3/SSCH</b>	<b>SABKD 1.5-3/SSCH/Z</b>
<b>Cat. no.</b>	<b>Qty.</b> 27224.0	17982.0	27250.0	27259.0
<b>Cable diameter Ø</b>	3 – 12 mm	3 – 12 mm	1.5 – 3 mm	1.5 – 3 mm
<b>Material</b>	Steel	Steel	Steel	Steel
<b>Type</b>	<b>SABKM 18/SSCH</b>	<b>SABKM 18/SSCH/Z</b>	<b>SABKD 3-6/SSCH</b>	<b>SABKD 3-6/SSCH/Z</b>
<b>Cat. no.</b>	<b>Qty.</b> 27225.0	17983.0	27251.0	27260.0
<b>Cable diameter Ø</b>	7 – 18 mm	7 – 18 mm	3 – 6 mm	3 – 6 mm
<b>Material</b>	Steel	Steel	Steel	Steel
<b>Type</b>	<b>SABKM 22/SSCH</b>	<b>SABKM 22/SSCH/Z</b>	<b>SABKD 6-8/SSCH</b>	<b>SABKD 6-8/SSCH/Z</b>
<b>Cat. no.</b>	<b>Qty.</b> 27226.0	27228.0	27252.0	27254.0
<b>Cable diameter Ø</b>	17 – 22 mm	17 – 22 mm	6 – 8 mm	6 – 8 mm
<b>Material</b>	Steel	Steel	Steel	Steel
<b>Type</b>	<b>SABKM 29/SSCH</b>	<b>SABKM 29/SSCH/Z</b>	<b>SABKMD 3-12/SSCH</b>	<b>SABKMD 3-12/SSCH/Z</b>
<b>Cat. no.</b>	<b>Qty.</b> 27227.0	27262.0	27253.0	27255.0
<b>Cable diameter Ø</b>	23 – 29 mm	23 – 29 mm	3 – 12 mm	3 – 12 mm
<b>Material</b>	Steel	Steel	Steel	Steel

# Shield-connection clip 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 holders should be used. These mechanically connect the front busbar with the DIN rail (holder).



## Your advantages

- Quick snap-on or mounting of the shield-connection clip
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Easy to work with

Shield-connection clip		SAB	
			
<b>Mounting type</b>		Busbar mounting	
<b>Type</b>		<b>SAB 8</b>	
<i>Cat. no.</i>	<b>Qty.</b>	1527.0	<b>10</b>
<b>Cable diameter Ø</b>		3 – 8 mm	
<b>Material</b>		Steel	
<b>Type</b>		<b>SAB 13.5</b>	
<i>Cat. no.</i>	<b>Qty.</b>	1528.0	<b>10</b>
<b>Cable diameter Ø</b>		4 – 13.5 mm	
<b>Material</b>		Steel	
<b>Type</b>		<b>SAB 20</b>	
<i>Cat. no.</i>	<b>Qty.</b>	1529.0	<b>10</b>
<b>Cable diameter Ø</b>		10 – 20 mm	
<b>Material</b>		Steel	

# Shield-connection clip SSAB for mounting on busbar

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 holders should be used. These mechanically connect the front busbar with the DIN rail (holder). The SH1 busbar holders are used where a shield-connection system must be mounted directly onto a panel rather than a DIN rail. The 10 x 3mm 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.



## Your advantages

- Screw-on clip for simple retrofitting
- Knurled thumb screw, so no tools required
- Easy to work with
- Large shield surface
- Secure contact

Shield-connection clip for busbar mounting		SSAB	
			
Mounting type		Busbar mounting	
Type	Qty.	SSAB 5	
Cat. no.		3694.0	10
Cable diameter Ø		2 – 5 mm	
Torque Nm		0.4	
Material		Steel	
Type	Qty.	SSAB 8	
Cat. no.		3695.0	10
Cable diameter Ø		3 – 8 mm	
Torque Nm		0.6	
Material		Steel	
Type	Qty.	SSAB 14	
Cat. no.		3696.0	10
Cable diameter Ø		3 – 14 mm	
Torque Nm		0.8	
Material		Steel	
Type	Qty.	SSAB 20	
Cat. no.		3697.0	10
Cable diameter Ø		3 – 20 mm	
Torque Nm		0.8	
Material		Steel	
Type	Qty.	SSAB 28	
Cat. no.		3698.0	10
Cable diameter Ø		5 – 28 mm	
Torque Nm		0.8	
Material		Steel	
Type	Qty.	SSAB 35	
Cat. no.		3699.0	10
Cable diameter Ø		20 – 35 mm	
Torque Nm		1.8	
Material		Steel	

# Shield-connection clip for the C-rail SAB.../GWP

The SAB.../GWP can be mounted on a C rail. The SAB.../GWP is attached to the threaded plate with an Allen (hex socket) screw. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the DIN rail.



## Your advantages

- Shield-connection clip is quickly mounted
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Easy to work with

Shield-connection clip for C-rail		SAB.../GWP	
			
Mounting type		C-rail mounting	
Type		<b>SAB 8/GWP</b>	
Cat. no.	Qty.	17356.0	10
Cable diameter Ø		3 – 8 mm	
Material		Steel	
Type		<b>SAB 13.5/GWP</b>	
Cat. no.	Qty.	17357.0	10
Cable diameter Ø		4 – 13.5 mm	
Material		Steel	
Type		<b>SAB 20/GWP</b>	
Cat. no.	Qty.	17358.0	10
Cable diameter Ø		10 – 20 mm	
Material		Steel	
Type		<b>SAB 32/GWP</b>	
Cat. no.	Qty.	17359.0	10
Cable diameter Ø		15 – 32 mm	
Material		Steel	

# Shield-connection bracket SABKM.../MF/35 for DIN rail mounting

The Multi shield-connection bracket (on mounting foot) can be snapped onto a 35 mm DIN rail without using any tools. The cable shield must only be pressed into the Multi shield-connection bracket in order to establish a reliable contact. The strain relief clip can be used with a cable tie to relieve strain.



## Your advantages

- Simple tool-free installation
- Spring force provides consistently good contact to the cable shield
- Very good dissipation of high-frequency interference current
- Cable tie can be used for strain relief

Shield-connection bracket	SABK .../MF/35	SABK .../MF/35/Z
		
<b>Mounting type</b>	Mounting on the DIN rail	Mounting on the DIN rail
<b>Description</b>	Without strain relief	With strain relief
<b>Cable diameter Ø</b>	1.5 – 3 mm	1.5 – 3 mm
<b>Type</b>	<b>SABK 3/MF/35</b>	<b>SABK 3/MF/35/Z</b>
<i>Cat. no.</i>	<i>27229.0</i>	<i>27240.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	3 – 6 mm	3 – 6 mm
<b>Type</b>	<b>SABK 6/MF/35</b>	<b>SABK 6/MF/35/Z</b>
<i>Cat. no.</i>	<i>27230.0</i>	<i>27241.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	6 – 8 mm	6 – 8 mm
<b>Type</b>	<b>SABK 8/MF/35</b>	<b>SABK 8/MF/35/Z</b>
<i>Cat. no.</i>	<i>27231.0</i>	<i>27242.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	8 – 11 mm	8 – 11 mm
<b>Type</b>	<b>SABK 11/MF/35</b>	<b>SABK 11/MF/35/Z</b>
<i>Cat. no.</i>	<i>27232.0</i>	<i>27243.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	11 – 16 mm	11 – 16 mm
<b>Type</b>	<b>SABK 16/MF/35</b>	<b>SABK 16/MF/35/Z</b>
<i>Cat. no.</i>	<i>27233.0</i>	<i>27244.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	17 – 22 mm	17 – 22 mm
<b>Type</b>	<b>SABK 22/MF/35</b>	<b>SABK 22/MF/35/Z</b>
<i>Cat. no.</i>	<i>27234.0</i>	<i>27245.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	23 – 29 mm	
<b>Type</b>	<b>SABK 29/MF/35</b>	
<i>Cat. no.</i>	<i>27235.0</i>	
<b>Qty.</b>	<b>10</b>	
<b>Cable diameter Ø</b>	30 – 37 mm	
<b>Type</b>	<b>SABK 37/MF/35</b>	
<i>Cat. no.</i>	<i>27236.0</i>	
<b>Qty.</b>	<b>10</b>	
<b>Cable diameter Ø</b>	3 – 12 mm	3 – 12 mm
<b>Type</b>	<b>SABKM 12/MF/35</b>	<b>SABKM 12/MF/35/Z</b>
<i>Cat. no.</i>	<i>27237.0</i>	<i>17980.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	7 – 18 mm	7 – 18 mm
<b>Type</b>	<b>SABKM 18/MF/35</b>	<b>SABKM 18/MF/35/Z</b>
<i>Cat. no.</i>	<i>27238.0</i>	<i>17981.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Cable diameter Ø</b>	16 – 35 mm	
<b>Type</b>	<b>SABKM 35/MF/35</b>	
<i>Cat. no.</i>	<i>27239.0</i>	
<b>Qty.</b>	<b>5</b>	
<b>Cable diameter Ø</b>	35 – 65 mm	
<b>Type</b>	<b>SABKM 65/MF/35</b>	
<i>Cat. no.</i>	<i>27258.0</i>	
<b>Qty.</b>	<b>5</b>	

# Shield-connection clip SAB...F for DIN rail mounting

The SAB../F shield-connection clip 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 the clamping foot and a mounting screw.



## Your advantages

- Shield-connection clip is quickly mounted
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Easy to work with

Shield-connection clip	SAB 8/F	SAB 13.5/F	SAB 20/F
			
<b>Mounting type</b>	Mounting on the DIN rail	Mounting on the DIN rail	Mounting on the DIN rail
<b>Cable diameter Ø</b>	3 – 8 mm	4 – 13.5 mm	10 – 20 mm
<b>Type</b>	<b>SAB 8/F</b>	<b>SAB 13.5/F</b>	<b>SAB 20/F</b>
<b>Cat. no.</b>	<b>1571.0</b>	<b>1572.0</b>	<b>1573.0</b>
<b>Qty.</b>	<b>10</b>	<b>10</b>	
<b>Dimensions</b>	18.5 x 13 x 26.5	22 x 19.5 x 32.5	27 x 13 x 26.5
<b>Material</b>	Steel	Steel	Steel

# Shield-connection clip SAB...MF for DIN rail mounting

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 mounting foot without using any tools. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the DIN rail.



## Your advantages

- Simple tool-free installation
- Different cable cross-sections can be accommodated by the elastic nature of the spring
- Easy to work with
- /S version can be rotated and fixed in position using the fastening screw

Shield-connection clip	SAB...MF	SAB...MF/35/S
		
<b>Mounting type</b>	Mounting on the DIN rail	Mounting on the DIN rail
<b>Cable diameter Ø</b>	3 – 8 mm	3 – 8 mm
<b>Type</b>	<b>SAB 8/MF/35</b>	<b>SAB 8/MF/35/S</b>
<i>Cat. no.</i>	<i>17038.0</i>	<i>17340.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Dimensions</b>	18.5 x 13 x 26.5	18.5 x 13 x 26.5
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	4 – 13.5 mm	4 – 13.5 mm
<b>Type</b>	<b>SAB 13.5/MF/35</b>	<b>SAB 13.5/MF/3/S5</b>
<i>Cat. no.</i>	<i>17039.0</i>	<i>17341.0</i>
<b>Qty.</b>	<b>10</b>	<b>5</b>
<b>Dimensions</b>	22 x 19.5 x 32.5	22 x 19.5 x 32.5
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	10 – 20 mm	10 – 20 mm
<b>Type</b>	<b>SAB 20/MF/35</b>	<b>SAB 20/MF/35/S</b>
<i>Cat. no.</i>	<i>17040.0</i>	<i>17342.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Dimensions</b>	27 x 24.5 x 40.5	27 x 24.5 x 40.5
<b>Material</b>	Steel	Steel
<b>Cable diameter Ø</b>	15 – 32 mm	15 – 32 mm
<b>Type</b>	<b>SAB 32/MF/35</b>	<b>SAB 32/MF/35/S</b>
<i>Cat. no.</i>	<i>17363.0</i>	<i>17343.0</i>
<b>Qty.</b>	<b>10</b>	<b>10</b>
<b>Material</b>	Steel	Steel

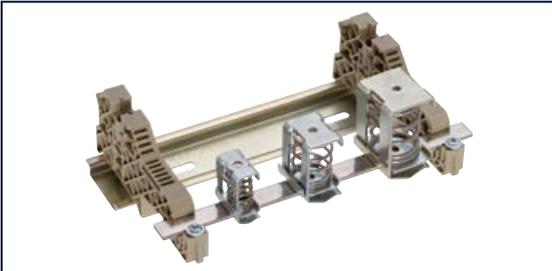
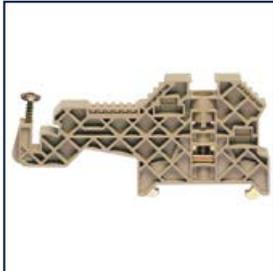
# Busbar holder

Busbar holders are used for mounting all shield-connection clips with 10 x 3mm busbars. These can be mounted quickly and flexibly according to your requirements. The SH1 busbar holders are used where a shield-connection system must be mounted directly onto a panel rather than a DIN rail. The 10 x 3mm busbars can be easily and quickly snapped on to these supports.

The SH/SAB busbar holders mechanically connect the preceding busbar with the DIN rail. Thus, the shield-connection clip can easily be extended directly to the terminal strip.

The ES 35/K/ST end stops have a built-in support that makes it easy to mount 10 x 3mm busbars directly above a 35 mm DIN rail.

Depending on the length, two or more holders may be used. The contact to the earth/ground potential is always established using a ZB clamping yoke.

Busbar holder			SH 1	SH SAB	ES 35/K/ST
					
<b>Type/colour</b>			<b>SH 1 BG</b>	<b>SH SAB BG</b>	<b>ES 35/K/ST BG</b>
<i>Cat. no.</i>		<b>Qty.</b>	2318.2	20	1530.2
<b>Dimensions</b>			24 x 24 x 23.7	50 x 9.5 x 98	2828.0
<b>Material of cap/holder</b>			PA 6.6 V2	PA 6.6 V2	50
<b>Accessories</b>					2828.0
<b>Mounting screw BS</b>			<b>BS M 4x8</b>		
<i>Cat. no.</i>		<b>Qty.</b>	2262.0	20	
<b>Busbar</b>	<b>Ssch</b>	<b>Copper</b>	<b>Ssch 10 x 3 CU</b>	<b>Ssch 10 x 3 CU</b>	<b>Ssch 10 x 3 CU</b>
<i>Cat. no.</i>		<b>Qty.</b>	2129.0	1 m	2129.0
<b>Busbar</b>	<b>Ssch</b>	<b>Brass</b>	<b>Ssch 10 x 3 Ms</b>	<b>Ssch 10 x 3 Ms</b>	<b>Ssch 10 x 3 Ms</b>
<i>Cat. no.</i>		<b>Qty.</b>	2128.0	1 m	2128.0
				1 m	1 m

# Types and catalogue numbers, alphabetic

Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
<b>B</b>			KDS-DE/B GR	28561.6	32	KDS-Set 10/24 BK	28605.4	14
BL KDS-SR 1-4	28674.0	43	KDS-DE/K 2-11 BK	28553.4	33	KDS-Set 6/10 BK	28603.4	14
BL KDS-SR 10/24	28677.0	43	KDS-DEG 14-15 BK	28535.4	33	KDS-Set 8/16 BK	28604.4	14
BL KDS-SR 6/10	28675.0	43	KDS-DEG 14-15 GR	28576.6	32	KDS-SR 1-4 BK	28506.4	14
BL KDS-SR 8/16	28676.0	43	KDS-DEG 15-16 BK	28536.4	33	KDS-SR 10/24 BK	28504.4	14
BL-VA KDS-SR 1-4	28683.0	43	KDS-DEG 15-16 GR	28577.6	32	KDS-SR 6/10 BK	28500.4	14
BL-VA KDS-SR 10/24	28686.0	43	KDS-DEG 16-17 BK	28537.4	33	KDS-SR 8/16 BK	28502.4	14
BL-VA KDS-SR 6/10	28684.0	43	KDS-DEG 16-17 GR	28578.6	32	KES 13/24 BK	28630.4	38
BL-VA KDS-SR 8/16	28685.0	43	KDS-DEG 17-18 BK	28538.4	33	KES 13/24 GR	28630.6	38
<b>E</b>			KDS-DEG 17-18 GR	28579.6	32	KES 14/24 BK	28631.4	38
ES 35/K/ST BG	2828.0	61	KDS-DEG 18-19 BK	28539.4	33	KES 14/24 GR	28631.6	38
<b>H</b>			KDS-DEG 18-19 GR	28580.6	32	KES 16-1/24 BK	28633.4	39
Hydraulic foot pump for sheet-metal puncher	28678.0	42	KDS-DEG 19-20 BK	28540.4	33	KES 16-1/24 GR	28633.6	39
Hydraulic hand pump for sheet-metal puncher	28679.0	42	KDS-DEG 19-20 GR	28581.6	32	KES 16/24 BK	28632.4	38
<b>K</b>			KDS-DEG 20-21 BK	28541.4	33	KES 16/24 GR	28632.6	38
KDS BW 1	28622.0	30	KDS-DEG 20-21 GR	28582.6	32	KES 17/24 BK	28634.4	39
KDS-DE 1.5-2 BK	28521.4	33	KDS-DEG 21-22 BK	28542.4	33	KES 17/24 GR	28634.6	39
KDS-DE 1.5-2 GR	28562.6	32	KDS-DEG 21-22 GR	28583.6	32	KES 20/24 BK	28635.4	39
KDS-DE 10-11 BK	28530.4	33	KDS-DEG 22-23 BK	28543.4	33	KES 20/24 GR	28635.6	39
KDS-DE 10-11 GR	28571.6	32	KDS-DEG 22-23 GR	28584.6	32	KES 21/24 BK	28636.4	39
KDS-DE 11-12 BK	28531.4	33	KDS-DEG 23-24 BK	28544.4	33	KES 21/24 GR	28636.6	39
KDS-DE 11-12 GR	28572.6	32	KDS-DEG 23-24 GR	28585.6	32	KES 32/24 BK	28637.4	39
KDS-DE 12-13 BK	28532.4	33	KDS-DEG 24-25 BK	28545.4	33	KES 32/24 GR	28637.6	39
KDS-DE 12-13 GR	28573.6	32	KDS-DEG 24-25 GR	28586.6	32	KES-GB 13/24 BK	28640.4	38
KDS-DE 13-14 BK	28533.4	33	KDS-DEG 25-26 BK	28546.4	33	KES-GB 13/24 GR	28640.6	38
KDS-DE 13-14 GR	28574.6	32	KDS-DEG 25-26 GR	28587.6	32	KES-GB 14/24 BK	28641.4	38
KDS-DE 14-15 BK	28608.4	33	KDS-DEG 26-27 BK	28547.4	33	KES-GB 14/24 GR	28641.6	38
KDS-DE 14-15 GR	28609.6	32	KDS-DEG 26-27 GR	28588.6	32	KES-GB 16-1/24 BK	28643.4	39
KDS-DE 15-16 BK	28670.4	33	KDS-DEG 27-28 BK	28548.4	33	KES-GB 16-1/24 GR	28643.6	39
KDS-DE 15-16 GR	28671.6	32	KDS-DEG 27-28 GR	28589.6	32	KES-GB 16/24 BK	28642.4	38
KDS-DE 2-3 BK	28522.4	33	KDS-DEG 28-29 BK	28549.4	33	KES-GB 16/24 GR	28642.6	38
KDS-DE 2-3 GR	28563.6	32	KDS-DEG 28-29 GR	28590.6	32	KES-GB 17/24 BK	28644.4	39
KDS-DE 2X4-5 BK	28555.4	33	KDS-DEG 29-30 BK	28550.4	33	KES-GB 17/24 GR	28644.6	39
KDS-DE 2X4-5 GR	28595.6	32	KDS-DEG 29-30 GR	28591.6	32	KES-GB 20/24 BK	28645.4	39
KDS-DE 2X5-6 BK	28556.4	33	KDS-DEG 30-31 BK	28551.4	33	KES-GB 20/24 GR	28645.6	39
KDS-DE 2X5-6 GR	28596.6	32	KDS-DEG 30-31 GR	28592.6	32	KES-GB 21/24 BK	28646.4	39
KDS-DE 2x6.5 BK	28682.4	33	KDS-DEG 31-32 BK	28552.4	33	KES-GB 21/24 GR	28646.6	39
KDS-DE 2x6.5 GR	28607.6	32	KDS-DEG 31-32 GR	28593.6	32	KES-GB 32/24 BK	28647.4	39
KDS-DE 3-4 BK	28523.4	33	KDS-DEG 32-33 BK	28601.4	33	KES-GB 32/24 GR	28647.6	39
KDS-DE 3-4 GR	28564.6	32	KDS-DEG 32-33 GR	28594.6	32	KES-R 13/24 BK	28650.4	38
KDS-DE 4-5 BK	28524.4	33	KDS-DEG/B BK	28534.4	33	KES-R 13/24 GR	28650.6	38
KDS-DE 4-5 GR	28565.6	32	KDS-DEG/B GR	28575.6	32	KES-R 14/24 BK	28651.4	38
KDS-DE 4X2-3 BK	28557.4	33	KDS-DEG/K 7-24 BK	28554.4	33	KES-R 14/24 GR	28651.6	38
KDS-DE 4X2-3 GR	28597.6	32	KDS-EMV-SAB 1-4	28623.0	31	KES-R 16-1/24 BK	28653.4	39
KDS-DE 4X3-4 BK	28558.4	33	KDS-EMV-SAB 10/24	28626.0	31	KES-R 16-1/24 GR	28653.6	39
KDS-DE 4X3-4 GR	28598.6	32	KDS-EMV-SAB 6/10	28624.0	31	KES-R 16/24 BK	28652.4	38
KDS-DE 4x4.5 BK	28681.4	33	KDS-EMV-SAB 8/16	28625.0	31	KES-R 16/24 GR	28652.6	38
KDS-DE 4x4.5 GR	28606.6	32	KDS-FP 2x10/24 BK	28660.4	20	KES-R 17/24 BK	28654.4	39
KDS-DE 4X5 BK	28672.4	33	KDS-FP 3x10/24 BK	28661.4	20	KES-R 17/24 GR	28654.6	39
KDS-DE 4X5 GR	28673.6	32	KDS-FP-IVR OG	28664.3	20	KES-R 20/24 BK	28655.4	39
KDS-DE 5-6 BK	28525.4	33	KDS-GM 20 BK	28616.4	28	KES-R 20/24 GR	28655.6	39
KDS-DE 5-6 GR	28566.6	32	KDS-GM 25 BK	28617.4	28	KES-R 21/24 BK	28656.4	39
KDS-DE 6-7 BK	28526.4	33	KDS-GM 32 BK	28618.4	28	KES-R 21/24 GR	28656.6	39
KDS-DE 6-7 GR	28567.6	32	KDS-GM 40 BK	28619.4	29	KES-R 32/24 BK	28657.4	39
KDS-DE 7-8 BK	28527.4	33	KDS-GM 50 BK	28620.4	29	KES-R 32/24 GR	28657.6	39
KDS-DE 7-8 GR	28568.6	32	KDS-GM 63 BK	28621.4	29	<b>M</b>		
KDS-DE 8-9 BK	28528.4	33	KDS-Inlay 1 BK	28516.4	14	MF-SABK/SSCH	27218.0	50
KDS-DE 8-9 GR	28569.6	32	KDS-Inlay 2 BK	28517.4	14	MF-SABK/SSCH/Z	17979.0	50
KDS-DE 9-10 BK	28529.4	33	KDS-Inlay 4 BK	28518.4	14	MF-SABK/35	27261.0	51
KDS-DE 9-10 GR	28570.6	32	KDS-Inlay 6 BK	28519.4	14	MF-SABK/35/Z	17978.0	51
KDS-DE/1XASI BK	28559.4	33	KDS-IVR 1-4 BK	28507.4	14	MF/D M4	27217.0	48
KDS-DE/1XASI GR	28599.6	32	KDS-IVR 10/24 BK	28505.4	14	MF/D M4/Z	17977.0	48
KDS-DE/2XASI BK	28560.4	33	KDS-IVR 6/10 BK	28501.4	14	<b>R</b>		
KDS-DE/2XASI GR	28600.6	32	KDS-IVR 8/16 BK	28503.4	14	RMF/D M4/Z	17986.0	49
KDS-DE/B BK	28520.4	33	KDS-KV M20 BK	28610.4	28	<b>S</b>		
			KDS-KV M25 BK	28611.4	28	SAB 13.5	1528.0	55
			KDS-KV M32 BK	28612.4	28	SAB 13.5/D	1550.0	53
			KDS-KV M40 BK	28613.4	29	SAB 13.5/F	1572.0	59
			KDS-KV M50 BK	28614.4	29			
			KDS-KV M63 BK	28615.4	29			
			KDS-Set 1-4 BK	28602.4	14			

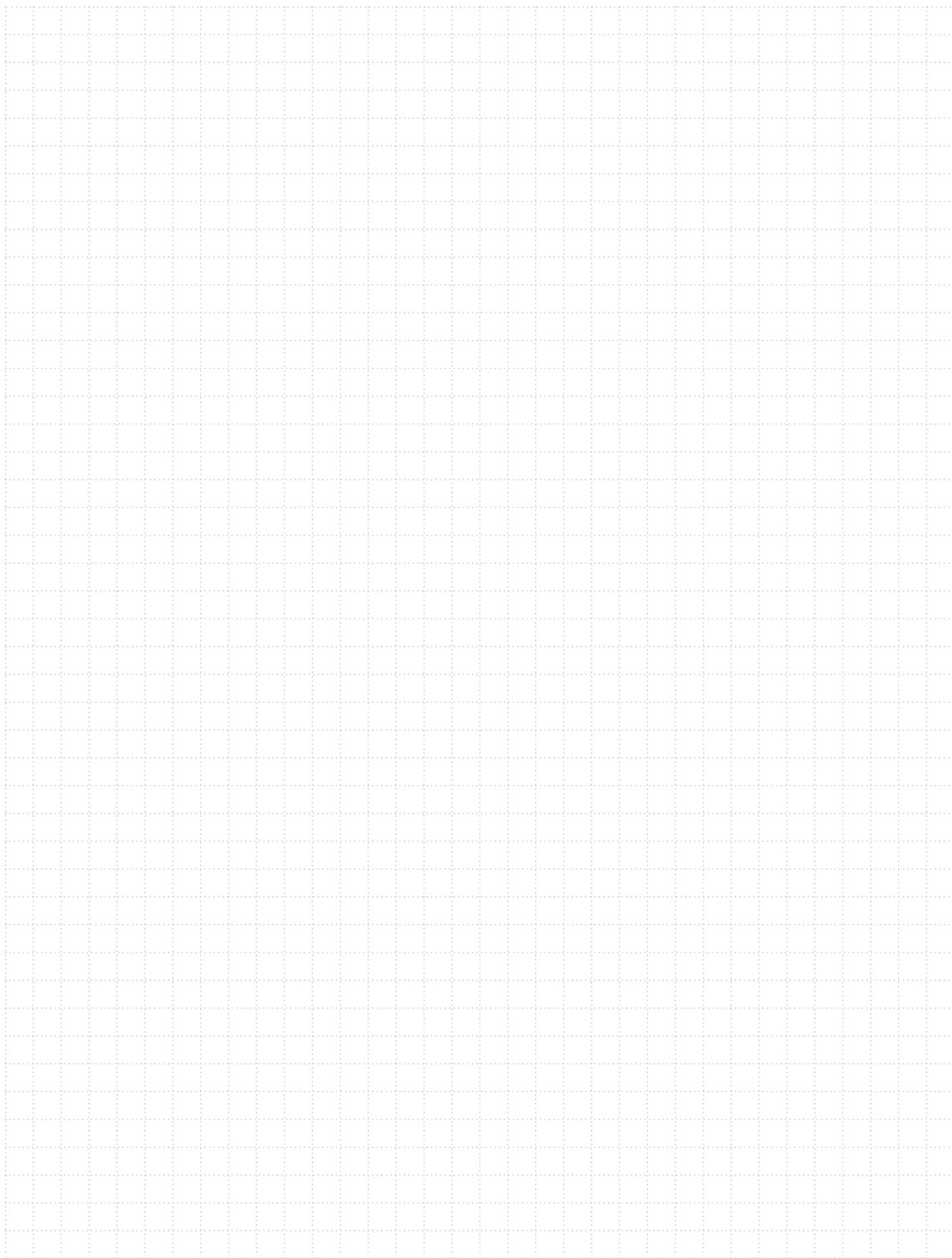
Type	Cat. no.	Page	Type	Cat. no.	Page	Type	Cat. no.	Page
SAB 13.5/GWP	17357.0	57	SSAB 14	3696.0	56			
SAB 13.5/MF/35	17039.0	60	SSAB 20	3697.0	56			
SAB 13.5/MF/35/S	17341.0	60	SSAB 28	3698.0	56			
SAB 20	1529.0	55	SSAB 35	3699.0	56			
SAB 20/D	1551.0	53	SSAB 5	3694.0	56			
SAB 20/F	1573.0	59	SSAB 8	3695.0	56			
SAB 20/GWP	17358.0	57						
SAB 20/MF/35	17040.0	60						
SAB 20/MF/35/S	17342.0	60						
SAB 32/D	17361.0	53						
SAB 32/GWP	17359.0	57						
SAB 32/MF/35	17363.0	60						
SAB 32/MF/35/S	17343.0	60						
SAB 8	1527.0	55						
SAB 8/D	1549.0	53						
SAB 8/D/M5	1526.0	53						
SAB 8/F	1571.0	59						
SAB 8/GWP	17356.0	57						
SAB 8/MF/35	17038.0	60						
SAB 8/MF/35/S	17340.0	60						
SABK 11	17973.0	46						
SABK 11/MF/35	27232.0	58						
SABK 11/MF/35/Z	27243.0	58						
SABK 16	17974.0	46						
SABK 16/MF/35	27233.0	58						
SABK 16/MF/35/Z	27244.0	58						
SABK 22/MF/35	27234.0	58						
SABK 22/MF/35/Z	27245.0	58						
SABK 29/MF/35	27235.0	58						
SABK 3	17970.0	46						
SABK 3/MF/35	27229.0	58						
SABK 3/MF/35/Z	27240.0	58						
SABK 37/MF/35	27236.0	58						
SABK 6	17971.0	46						
SABK 6/MF/35	27230.0	58						
SABK 6/MF/35/Z	27241.0	58						
SABK 8	17972.0	46						
SABK 8/MF/35	27231.0	58						
SABK 8/MF/35/Z	27242.0	58						
SABKD 1.5-3/SSCH	27250.0	54						
SABKD 1.5-3/SSCH/Z	27259.0	54						
SABKD 3-6/SSCH	27251.0	54						
SABKD 3-6/SSCH/Z	27260.0	54						
SABKD 6-8/SSCH	27252.0	54						
SABKD 6-8/SSCH/Z	27254.0	54						
SABKM 12	17975.0	47						
SABKM 12/D M4	27246.0	52						
SABKM 12/D M4/Z	17984.0	52						
SABKM 12/MF/35	27237.0	58						
SABKM 12/MF/35/Z	17980.0	58						
SABKM 12/SSCH	27224.0	54						
SABKM 12/SSCH/Z	17982.0	54						
SABKM 18	17976.0	47						
SABKM 18/D M4	27247.0	52						
SABKM 18/D M4/Z	17985.0	52						
SABKM 18/MF/35	27238.0	58						
SABKM 18/MF/35/Z	17981.0	58						
SABKM 18/SSCH	27225.0	54						
SABKM 18/SSCH/Z	17983.0	54						
SABKM 22/D M4	27248.0	52						
SABKM 22/D M4/Z	27220.0	52						
SABKM 22/SSCH	27226.0	54						
SABKM 22/SSCH/Z	27228.0	54						
SABKM 29/D M4	27249.0	52						
SABKM 29/D M4/Z	27221.0	52						
SABKM 29/SSCH	27227.0	54						
SABKM 29/SSCH/Z	27262.0	54						
SABKM 35/D M4	27256.0	52						
SABKM 35/MF/35	27239.0	58						
SABKM 65/D M4	27257.0	52						
SABKM 65/MF/35	27258.0	58						
SABKMD 3-12/SSCH	27253.0	54						
SABKMD 3-12/SSCH/Z	27255.0	54						
SH 1 BG	2318.2	61						
SH SAB BG	1530.2	61						

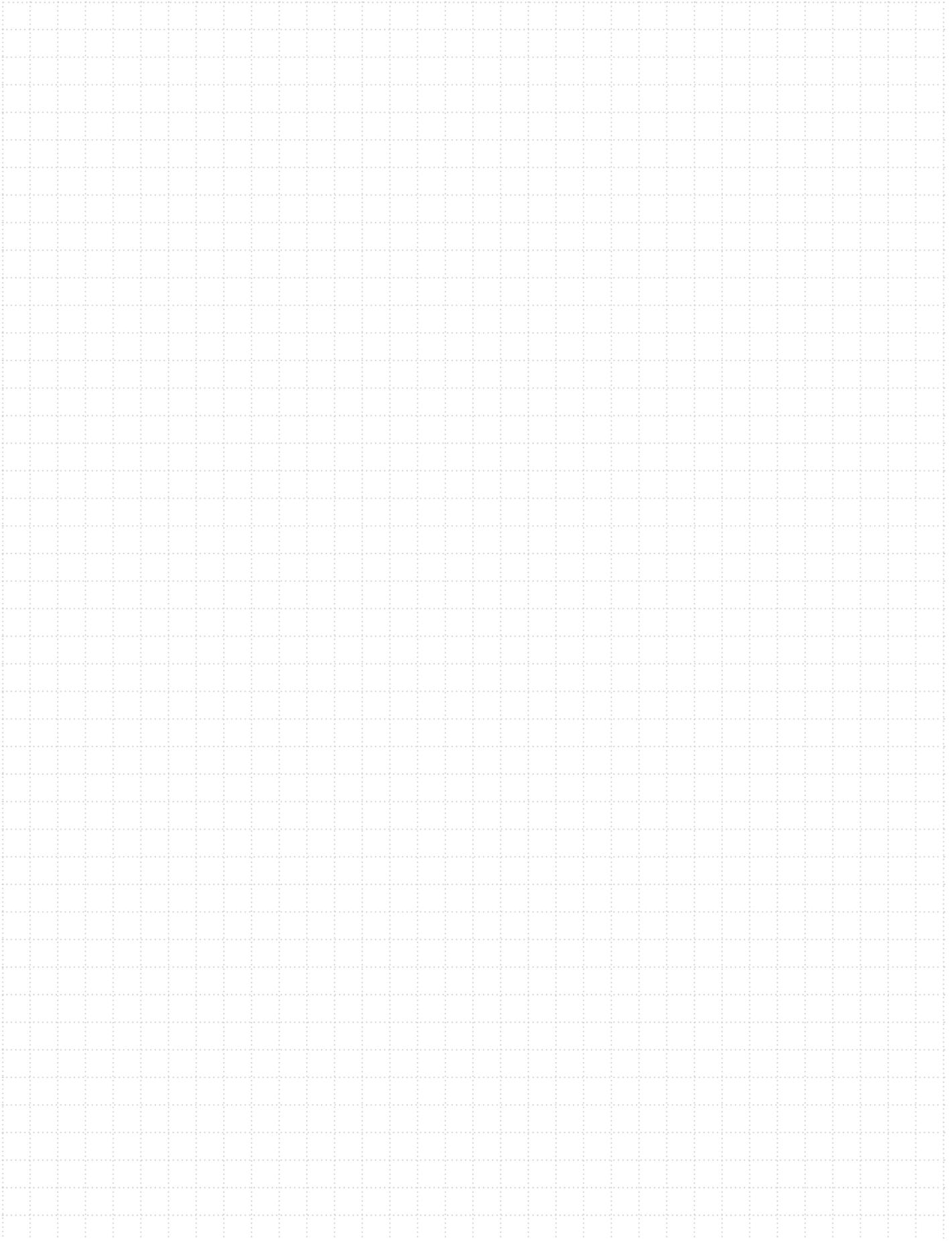
# Types and catalogue numbers, numeric

Cat. no.	Type	Page	Cat. no.	Type	Page	Cat. no.	Type	Page
<b>1</b>			27232.0	SABK 11/MF/35	58	28546.4	KDS-DEG 25-26 BK	33
1526.0	SAB 8/D/M5	53	27233.0	SABK 16/MF/35	58	28547.4	KDS-DEG 26-27 BK	33
1527.0	SAB 8	55	27234.0	SABK 22/MF/35	58	28548.4	KDS-DEG 27-28 BK	33
1528.0	SAB 13.5	55	27235.0	SABK 29/MF/35	58	28549.4	KDS-DEG 28-29 BK	33
1529.0	SAB 20	55	27236.0	SABK 37/MF/35	58	28550.4	KDS-DEG 29-30 BK	33
1530.2	SH SAB BG	61	27237.0	SABKM 12/MF/35	58	28551.4	KDS-DEG 30-31 BK	33
1549.0	SAB 8/D	53	27238.0	SABKM 18/MF/35	58	28552.4	KDS-DEG 31-32 BK	33
1550.0	SAB 13.5/D	53	27239.0	SABKM 35/MF/35	58	28553.4	KDS-DE/K 2-11 BK	33
1551.0	SAB 20/D	53	27240.0	SABK 3/MF/35/Z	58	28554.4	KDS-DEG/K 7-24 BK	33
1571.0	SAB 8/F	59	27241.0	SABK 6/MF/35/Z	58	28555.4	KDS-DE 2X4-5 BK	33
1572.0	SAB 13.5/F	59	27242.0	SABK 8/MF/35/Z	58	28556.4	KDS-DE 2X5-6 BK	33
1573.0	SAB 20/F	59	27243.0	SABK 11/MF/35/Z	58	28557.4	KDS-DE 4X2-3 BK	33
			27244.0	SABK 16/MF/35/Z	58	28558.4	KDS-DE 4X3-4 BK	33
<b>2</b>			27245.0	SABK 22/MF/35/Z	58	28559.4	KDS-DE/1XASI BK	33
2318.2	SH 1 BG	61	27246.0	SABKM 12/D M4	52	28560.4	KDS-DE/2XASI BK	33
			27247.0	SABKM 18/D M4	52	28561.6	KDS-DE/B GR	32
			27248.0	SABKM 22/D M4	52	28562.6	KDS-DE 1.5-2 GR	32
<b>3</b>			27249.0	SABKM 29/D M4	52	28563.6	KDS-DE 2-3 GR	32
3694.0	SSAB 5	56	27250.0	SABKD 1.5-3/SSCH	54	28564.6	KDS-DE 3-4 GR	32
3695.0	SSAB 8	56	27251.0	SABKD 3-6/SSCH	54	28565.6	KDS-DE 4-5 GR	32
3696.0	SSAB 14	56	27252.0	SABKD 6-8/SSCH	54	28566.6	KDS-DE 5-6 GR	32
3697.0	SSAB 20	56	27253.0	SABKMD 3-12/SSCH	54	28567.6	KDS-DE 6-7 GR	32
3698.0	SSAB 28	56	27254.0	SABKD 6-8/SSCH/Z	54	28568.6	KDS-DE 7-8 GR	32
3699.0	SSAB 35	56	27255.0	SABKMD 3-12/SSCH/Z	54	28569.6	KDS-DE 8-9 GR	32
			27256.0	SABKM 35/D M4	52	28570.6	KDS-DE 9-10 GR	32
<b>17</b>			27257.0	SABKM 65/D M4	52	28571.6	KDS-DE 10-11 GR	32
17038.0	SAB 8/MF/35	60	27258.0	SABKM 65/MF/35	58	28572.6	KDS-DE 11-12 GR	32
17039.0	SAB 13.5/MF/35	60	27259.0	SABKD 1.5-3/SSCH/Z	54	28573.6	KDS-DE 12-13 GR	32
17040.0	SAB 20/MF/35	60	27260.0	SABKD 3-6/SSCH/Z	54	28574.6	KDS-DE 13-14 GR	32
17340.0	SAB 8/MF/35/S	60	27261.0	MF-SABK/35	51	28575.6	KDS-DEG/B GR	32
17341.0	SAB 13.5/MF/35/S	60				28576.6	KDS-DEG 14-15 GR	32
17342.0	SAB 20/MF/35/S	60	<b>28</b>			28577.6	KDS-DEG 15-16 GR	32
17343.0	SAB 32/MF/35/S	60	2828.0	ES 35/K/ST BG	61	28578.6	KDS-DEG 16-17 GR	32
17356.0	SAB 8/GWP	57	28500.4	KDS-SR 6/10 BK	14	28579.6	KDS-DEG 17-18 GR	32
17357.0	SAB 13.5/GWP	57	28501.4	KDS-IVR 6/10 BK	14	28580.6	KDS-DEG 18-19 GR	32
17358.0	SAB 20/GWP	57	28502.4	KDS-SR 8/16 BK	14	28581.6	KDS-DEG 19-20 GR	32
17359.0	SAB 32/GWP	57	28503.4	KDS-IVR 8/16 BK	14	28582.6	KDS-DEG 20-21 GR	32
17361.0	SAB 32/D	53	28504.4	KDS-SR 10/24 BK	14	28583.6	KDS-DEG 21-22 GR	32
17363.0	SAB 32/MF/35	60	28505.4	KDS-IVR 10/24 BK	14	28584.6	KDS-DEG 22-23 GR	32
17970.0	SABK 3	46	28506.4	KDS-SR 1-4 BK	14	28585.6	KDS-DEG 23-24 GR	32
17971.0	SABK 6	46	28507.4	KDS-IVR 1-4 BK	14	28586.6	KDS-DEG 24-25 GR	32
17972.0	SABK 8	46	28516.4	KDS-Inlay 1 BK	14	28587.6	KDS-DEG 25-26 GR	32
17973.0	SABK 11	46	28517.4	KDS-Inlay 2 BK	14	28588.6	KDS-DEG 26-27 GR	32
17974.0	SABK 16	46	28518.4	KDS-Inlay 4 BK	14	28589.6	KDS-DEG 27-28 GR	32
17975.0	SABKM 12	47	28519.4	KDS-Inlay 6 BK	14	28590.6	KDS-DEG 28-29 GR	32
17976.0	SABKM 18	47	28520.4	KDS-DE/B BK	33	28591.6	KDS-DEG 29-30 GR	32
17977.0	MF/D M4/Z	48	28521.4	KDS-DE 1.5-2 BK	33	28592.6	KDS-DEG 30-31 GR	32
17978.0	MF-SABK/35/Z	51	28522.4	KDS-DE 2-3 BK	33	28593.6	KDS-DEG 31-32 GR	32
17979.0	MF-SABK/SSCH/Z	50	28523.4	KDS-DE 3-4 BK	33	28594.6	KDS-DEG 32-33 GR	32
17980.0	SABKM 12/MF/35/Z	58	28524.4	KDS-DE 4-5 BK	33	28595.6	KDS-DE 2X4-5 GR	32
17981.0	SABKM 18/MF/35/Z	58	28525.4	KDS-DE 5-6 BK	33	28596.6	KDS-DE 2X5-6 GR	32
17982.0	SABKM 12/SSCH/Z	54	28526.4	KDS-DE 6-7 BK	33	28597.6	KDS-DE 4X2-3 GR	32
17983.0	SABKM 18/SSCH/Z	54	28527.4	KDS-DE 7-8 BK	33	28598.6	KDS-DE 4X3-4 GR	32
17984.0	SABKM 12/D M4/Z	52	28528.4	KDS-DE 8-9 BK	33	28599.6	KDS-DE/1XASI GR	32
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