SWITCHES PLUS COMPONENTS

Cable Management

2027



Industrial electrical, automation and control products, including hard-to-source and specialist components, backed by technical expertise.

Switches Plus Components

SWITCHES PLUS COMPONENTS

Switches Plus Components is an Australian-owned specialist supplier of industrial electrical, control and automation products, supporting customers across Australia.

We've been working with switchboard builders, OEMs, machine builders, industrial electricians and engineers for more than 40 years, supporting projects where product selection, system integration and long-term performance all matter.

We act as the Australian distributor for over 40 suppliers, with over 10,000 items on our wesbite, and 5,000+ products stocked in our warehouse from leading global manufacturers, known for their quality, reliability and performance in industrial applications.

What We Do

We supply a broad range of industrial electrical, automation and control components suited to your application requirements, whether standard or specialist.

Our role extends beyond supplying part numbers. We focus on solving application challenges, ensuring product decisions align with system design, operating conditions and long-term performance requirements.

Access Specialist and Hard-to-Source Products

Not all projects align with standard, catalogue-based supply. Switches Plus supports applications where system constraints, integration requirements and operating conditions influence product selection. This includes sourcing specialist and hard-to-source components where only specific or niche products will meet the requirements of your application.

Work with a Technically Informed Team

Our team understands the industries our customers work in and how those environments shape product requirements. They work alongside you to provide practical technical input, so product decisions are based on what will perform in your application, not just what's available.

Industries and Applications

Switches Plus Components serves a wide range of customers and industries. Our customers include electrical contractors, switchboard builders, machine builders (OEMs), engineers and system integrators who work across many industries including:

- Defence
- Industrial automation
- Manufacturing plants
- Mining operations
- Utilities
- Infrastructure projects
- Renewable Energy
- Electrical Contractors

These are environments where product selection, technical input and operating conditions directly influence system performance and service life.

Our Mission

We make it easier for our customers to get the right industrial electrical, automation and control products for their application, so they can deliver reliable systems.

Our Vision

To contribute to reliable, well-performing industrial systems across the industries we support.

How We Work

We work from your application requirements
Product selection is guided by how your system is designed, built and expected to perform.

We focus on what will work in your application
Decisions are based on system requirements, operating conditions and long-term performance, not just availability.

We bring practical technical input
Our team understands the industries you work in and provides input that reflects how systems are built, installed and used.

We source beyond standard options when needed
We source components suited to your application, not limited to standard product ranges.

We work alongside you throughout the project
We respond quickly, communicate clearly and work with you to keep things moving.

National Coverage

Switches Plus Components supplies customers across Australia and New Zealand, supporting projects in metropolitan, regional and remote locations.

Contact Details

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Switches Plus Components

SWITCHES PLUS COMPONENTS

Our Brands

We work with a global network of suppliers, providing access to established brands used across industrial applications.



Product Range

We offer a wide range of industrial electrical components and automation solutions, from consumables through to specialised technical products. This includes both standard stocked products and specialist components sourced for applications where standard options do not meet your requirements.

Products are selected with compliance to relevant standards and appropriate IP ratings in mind, ensuring suitability for industrial environments and application requirements. Our product range includes:

- Automation Components
- Beacons & Alarms
- Cable
- Cable Management & Accessories
- Circuit Protection
- Connectors
- Contactors & Relays
- Enclosures
- Switches
- Terminals & Distribution Devices
- Timers & Monitoring Relays
- Transformers & Power Supplies

Switches Plus Components was established in 1997 through the strategic merger of C&K Electronics and Jesec Switches Plus. This union brought together more than 40 years of combined industry expertise, establishing our position as a market leader in electronic components.

A pivotal moment came in November 2012 when Switches Plus evolved from a traditional electronics components supplier into a comprehensive industrial solutions provider, transforming the company's trajectory and market presence. In February 2025, Switches Plus Components entered an exciting new chapter when it was acquired by Dore Electrics, a move that significantly strengthens the company's footprint in the Industrial Electrical and Automation market.

The partnership with Dore Electrics enhances our ability to deliver comprehensive electrical solutions while maintaining the high standards and customer-focused approach that has defined Switches Plus Components for over four decades.

Catalogues

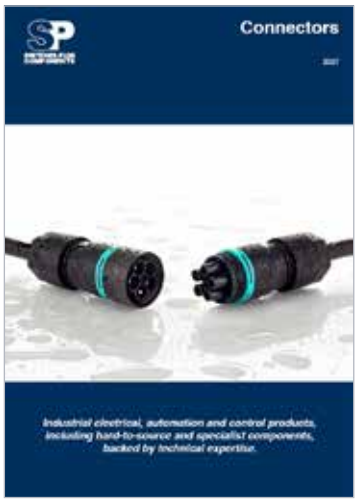
Looking for something not in this catalogue? Don't worry, we have over 5000 stocked lines, and access to thousands more!





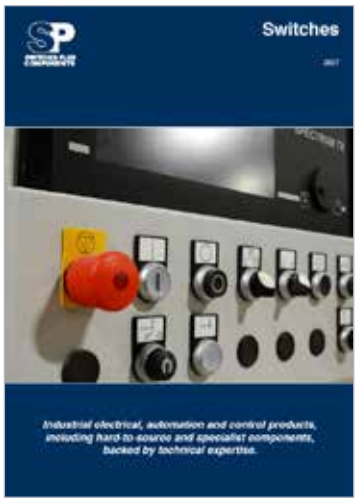


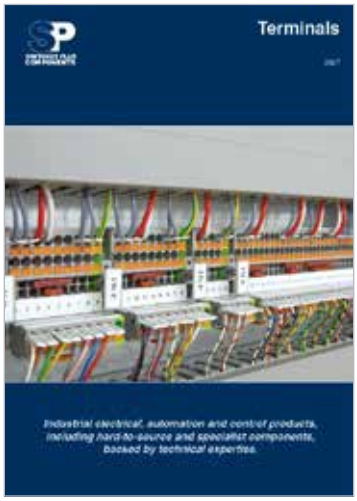
















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Panel Wire

V90HT Panel wire

105°C Flexible Panel wire (100m rolls)



Australian standard V90HT flexible panel wires, are designed for the internal wiring of electrical cabinets, switchboards and small electrical devices. Due to its manufacturing characteristics, it can be used in conduit or in flexible motor ducts, transformers and other machinery in general.

Class 5 flexible tinned copper conductors insulated with heat resistant, flame retardant PVC (V90HT) insulation. 10-16mm^2 versions, Class 6 superfine plain copper.

Nominal Voltage:
600/1000V

Temperature Range:
Fixed: -20°C to +105°C

Conductor size (mm^2)	Red	Black	White	Blue	Green/Yellow
0.5	FLB0.5RD	FLB0.5BK	FLB0.5WE	FLB0.5BE	-
0.75	FLB0.75RD	FLB0.75BK	FLB0.75WE	FLB0.75BE	FLB0.75GNYW
1	FLB1RD	FLB1BK	FLB1WE	FLB1BE	FLB1GNYW
1.5	FLB1.5RD	FLB1.5BK	FLB1.5WE	FLB1.5BE	FLB1.5GNYW
2.5	FLB2.5RD	FLB2.5BK	FLB2.5WE	FLB2.5BE	FLB2.5GNYW
4	FLB4RD	FLB4BK	FLB4WE	FLB4BE	FLB4GNYW
6	FLB6RD	FLB6BK	FLB6WE	FLB6BE	FLB6GNYW
10	FLB10RD	FLB10BK	FLB10WE	FLB10BE	FLB10GNYW
16	FLB16RD	FLB16BK	FLB16WE	FLB16BE	FLB16GNYW

Conductor size (mm^2)	Brown	Grey	Orange	Violet	Pink
0.5	FLB0.5BN	FLB0.5GY	FLB0.5OE	FLB0.5VT	FLB0.5PK
0.75	FLB0.75BN	FLB0.75GY	FLB0.75OE	FLB0.75VT	FLB0.75PK
1	FLB1BN	FLB1GY	FLB1OE	FLB1VT	FLB1PK
1.5	FLB1.5BN	FLB1.5GY	FLB1.5OE	FLB1.5VT	FLB1.5PK
2.5	FLB2.5BN	FLB2.5GY	FLB2.5OE	FLB2.5VT	FLB2.5PK

Non Insulated Ferrules

(Pack 100)



Part Number	Conductor size (mm^2)	Length (mm)
TUCE0505	0.5	6
TUCE7575	0.75	10
TUCE1010/8	1	8
TUCE1010		10
TUCE1515/8	1.5	8
TUCE1515		10
TUCE1515/12		12
TUCE2525/8	2.5	8
TUCE2525		12
TUCE2525/18		18

Part Number	Conductor size (mm^2)	Length (mm)
TUCE4040/10	4	10
TUCE4040		12
TUCE4040/20		20
TUCE6040/12	6	12
TUCE6040		12
TUCE6040/20		20
TUCE0010/12	10	12
TUCE0010/18		18
TUCE0010/25		25

Part Number	Conductor size (mm^2)	Length (mm)
TUCE0016	16	15
TUCE0016/12		12
TUCE0016/18		18
TUCE0016/25		25
TUCE0025	25	15
TUCE0025/18		18
TUCE0025/25		25
TUCE0035	35	20
TUCE0050	50	22
TUCE0070	70	26
TUCE0095	95	30

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Cable Ferrules

Single Wire Ferrules
Insulated

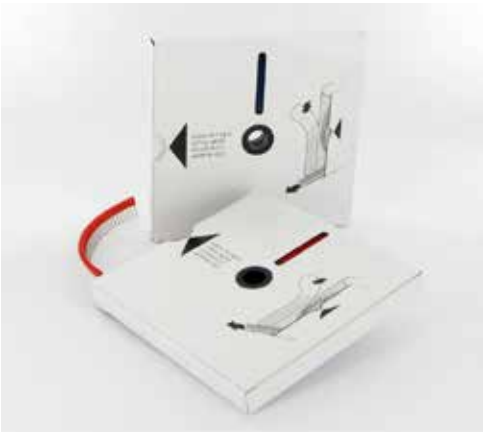
Part Number	Conductor size (mm²)	Internal Diameter (mm)	Length (mm)	Colour	Pack qty
2100139	0.34	2	8	Pink	100
3200014	0.5	2.5	8	White	100
2100131		3			500
3200506		2.5	12		100
3200027	0.75	2.8	8	Blue	100
2100107		3.4	10		
3200030	1	3	8	Red	100
2100091		3.4			500
3200674		3	12		100
3200043	1.5	3.4	8	Black	100
2100074		3.8			1000
3200056		3.4	18		100
3200069	2.5	4.2	8	Grey	100
3200072		4.2	18		
3200085	4	4.8	10	Orange	100
3200098		4.8	18		
3200108	6	6.2	12	Green	100
3200124	10	7.5	12	Brown	100
3200140	16	8.8	12	White	100
3200739	25	11	22	Black	50





Single Wire Ferrules in Dispensor pack
Insulated, designed for automatic or hand tool crimping

Part Number	Conductor size (mm²)	Internal Diameter (mm)	Length (mm)	Colour	Pack qty
3201369	0.5	2.5	8	White	1000
3201547	0.75	2.8	8	Light Blue	
3201385	1	3	8	Red	
3201398	1.5	3.4	8	Black	
3201550	2.5	4.2	8	Grey	500



Twin Wire Ferrules
Insulated

Part Number	Conductor size (mm²)	Internal Width (mm)	Length (mm)	Colour	Pack qty
3200933	0.5	2	8	White	100
3240668	0.75	2.8	8	Light Blue	
3200810	1	3.4	8	Red	
3200823	1.5	3.6	8	Black	
3240669	2.5	4.2	8	Grey	
1213204	4	4.9	12	Orange	
1213205	6	5.9	14	Green	



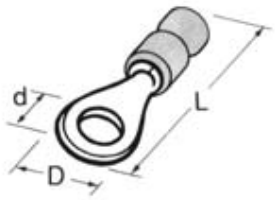
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Pre-Insulated Terminals and Connectors

Ring Terminals

Insulated and Non Insulated (Pack 100)

Part Number			Dimensions (mm)			L - Length (mm)	
Nylon Insulated	Nylon Twin Grip Insulated	Non Insulated	Stud Size	d	D	Insulated	Non Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG							
TVR 1-3	TVR 1-3TG	TR 1-3	3	3.2	5.5	17.7	11.7
		TR 1-3.7	3.5	3.7	5.5	17.7	11.7
TVR 1-4	TVR 1-4TG	TR 1-4	4	4.3	6.6	20.6	14.6
TVR 1-4L		TR 1-4L	4	4.3	8	22	16
TVR 1-5	TVR 1-5TG	TR 1-5	5	5.3	8	22	16
TVR 1-6	TVR 1-6TG	TR 1-6	6	6.4	11.6	27.8	21.8
TVR 1-8	TVR 1-8TG	TR 1-8	8	8.4	11.6	27.8	21.8
TVR 1-10	TVR 1-10TG	TR 1-10	10	10.5	13.6	31.7	25.7
TVR 1-12	TVR 1-12TG		12	13	19.2	36.6	30.6
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG							
TVR 2-3	TVR 2-3TG	TR 2-3	3	3.2	6.4	18.5	12.5
TVR 2-3L		TR 2-3L	3	3.2	8.5	22	16.8
TVR 2-3.7		TR 2-3.7	3.5	3.7	6.6	20.5	14.5
TVR 2-4	TVR 2-4TG	TR 2-4	4	4.3	6.6	20.5	14.5
TVR 2-5	TVR 2-5TG	TR 2-5	5	5.3	8.5	23	17
TVR 2-6	TVR 2-6TG		6	6.4	12	28	22
TVR 2-8	TVR 2-8TG		8	8.4	12	28	22
TVR 2-10	TVR 2-10TG		10	10.5	13.6	31.7	25.7
TVR 2-12	TVR 2-12TG	TR 2-12	12	13	19.2	36.6	30.6
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG							
TVR 5-3			3	3.2	7.2	22.5	15.5
TVR 5-3.7			3.5	3.7	7.2	22.5	15.5
TVR 5-4	TVR 5-4TG	TR 5-4	4	4.3	7.2	22.5	15.5
TVR 5-5	TVR 5-5TG	TR 5-5	5	5.3	9.5	26	19
TVR 5-6	TVR 5-6TG	TR 5-6	6	6.4	12	29.5	22.5
TVR 5-8L	TVR 5-8LTG		8	8.4	15	34.2	27.2
TVR 5-10	TVR 5-10TG		10	10.5	15	34.2	27.2
TVR 5-12	TVR 5-12TG		12	13	19.2	38.6	











Auto Bullet Terminals

(Pack 100)



Male	Female	Female x2	Male	Female	Female x2	Male	Female
Size 1, Red, 0.25 - 1.65mm² 22-16AWG			Size 2, Blue, 1.04 - 2.63mm² 16-14AWG			Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG	
TVAB1M	TVAB1F	TVSC1	TVAB2M	TVAB2F	YVSC2	TVAB5M	TVAB5F

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Pre-Insulated Terminals and Connectors

Fork (Spade) Terminals

Insulated and Non Insulated (Pack 100)

Part Number			Dimensions (mm)			L - Length (mm)	
Nylon Insulated	Vinyl Twin Grip Insulated	Non Insulated	Stud Size	d	D	Insulated	Non Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG							
TVF 1-3	TVF 1-3TG	TF 1-3	3	3.2	5.8	22	16
TVF 1-3N	TVF 1-3NTG	TF 1-3N	3.5	3.7	6.4	21.6	15.6
TVF 1-4N	TVF 1-4NTG	TF 1-4N	4	4.3	6.4	21.6	15.6
TVF 1-4	TVF 1-4TG		4	4.3	7.2	22	
TVF 1-5	TVF 1-5TG	TF 1-5	5	5.3	9.5	22	16
TVF 1-6	TVF 1-6TG		6	6.4	12	28.2	
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG							
TVF 2-3	TVF 2-3TG	TF 2-3	3	3.2	5.8	22	16
TVF 2-3N	TVF 2-3NTG	TF 2-3N	3.5	3.7	6.4	22	16
TVF 2-4N		TF 2-34N	4	4.3	6.4	22	16
TVF 2-4	TVF 2-4TG	TF 2-4	4	4.3	7.2	22.2	16.2
TVF 2-5	TVF 2-5TG	TF 2-5	5	5.3	9.5	23	17
TVF 2-6	TVF 2-6TG	TF 2-6	6	6.4	12	28.2	22.2
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG							
TVF 5-3		TF 5-3	3	3.2	8.3	25.2	19.5
TVF 5-4	TVF 5-4TG	TF 5-4	4	4.3	8.5	25.7	18.7
TVF 5-4L	TVF 5-4LTG		4	4.3	9.5	25.7	
TVF 5-5	TVF 5-5TG	TF 5-5	5	5.3	9.5	25.7	18.7
TVF 5-6	TVF 5-6TG	TF 5-6	6	6.4	12	31.7	24.7



Flanged Fork (Spade) Terminals

Insulated (Pack 100)

Part Number	Dimensions (mm)			L - Length (mm)
Nylon Insulated	Stud Size	d	D	Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG				
TVF 1-3F	3.5	3.7	7.2	20.5
TVF 1-4F	4	4.3	7.2	20.5
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG				
TVF 2-3F	3.5	3.7	7.2	20.7
TVF 2-4F	4	4.3	7.2	20.7
TVF 2-5F	5	5.3	8.5	21.5



Insulated Screw Connectors

Suits 2x6mm² Cables, Rated to 32A

Part Number	Conductor size (mm²)	Number of Screws	Pack Qty
AU316/1	2x6	1	100
AU316/2	2x6	2	50



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Pre-Insulated Terminals and Connectors

Blade Terminals

Insulated (Pack 100)

Part Number		Dimensions (mm)		
Vinyl Insulated	Vinyl Twin Grip Insulated	D	W	L - Length (mm)
Size 1, Red, 0.25 - 1.65mm² 22-16AWG				
TVB 1-10	TVB 1-10TG	10.7	2.4	15.7
TVB 1-18	TVB 1-18TG	18	2.4	23
TVB 1-11	TVB 1-11TG	11	3	16
TVB 1-14	TVB 1-14TG	14	3	19
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG				
TVB 2-9	TVB 2-9TG	9	2.8	14
TVB 2-18	TVB 2-18TG	18	23.4	23
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG				
TVB 2-9	TVB 2-9TG	9	2.8	14
TVB 2-18	TVB 2-18TG	18	23.4	23



Hooked Blade Terminals

Insulated (Pack 100)

Part Number		Dimensions (mm)		L - Length (mm)	
				insulated	
Nylon Insulated	Vinyl Twin Grip Insulated	D	W	Nylon	Vinyl
Size 1, Red, 0.25 - 1.65mm² 22-16AWG					
TVB 1-13H	TVB 1-13HTG	18	3	28	29
TVB 1-13HW		18	4.7	28	29
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG					
TVB 2-13H	TVB 2-13HTG	18	3	28	29
TVB 2-13HW		18	4.7	28	29
	TVB 2-18HTG	18	3	28	29
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG					
TVB 5-13H	TVB 5-13HTG	17.5	3	30	30.5
TVB 5-13HW		17.5	4.7	30	30.5



Pin Terminals

Insulated (Pack 100)

Part Number			Dimensions (mm)		L - Length (mm)	
Vinyl Insulated	Nylon Twin Grip Insulated	Non Insulated	d	D	Insulated	Non Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG						
TVP 1-9	TVP 1-9TG		1.9	9	18.5	14.3
TVP 1-12	TVP 1-12TG	TP 1-12	1.9	12	21.2	17
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG						
TVP 2-9	TVP 2-9TG		1.9	9	18.5	14.3
TVP 2-12	TVP 2-12TG	TP 2-12	1.9	12	21.2	17
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG						
TVP 5-14	TVP 5-14TG	TP 5-14	2.9	14	27.2	20

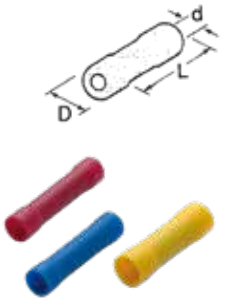


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Pre-Insulated Terminals and Connectors

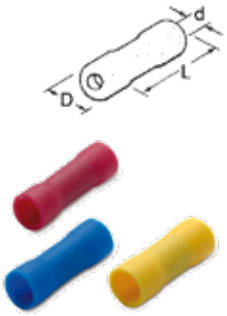
Butt Splice Connectors
Insulated and Non Insulated (Pack 100)

Part Number			Dimensions (mm)		L - Length (mm)	
Vinyl Insulated	Nylon Twin Grip Insulated	Non Insulated	d	D	Insulated	Non Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG						
TVBC 1	TNBC 1TG	TBC 1	3.3	1.7	22.7	15
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG						
TVBC 2	TNBC 2TG	TBC 2	4	2.3	22.7	15
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG						
TVBC 5	TNBC 5TG	TBC 5	5.5	3.4	26.7	15



Parallel Connectors
Insulated and Heatshrink (Pack 100)

Part Number			Dimensions (mm)		L - Length (mm)	
Insulated	Weather Proof Heatshrink	Non Insulated	D	d	Insulated	Non Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG						
TVPC 1	THSB 1	TPC 1	3.3	1.7	16	8
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG						
TVPC 2	THSB 2	TPC 2	4	2.3	16	8
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG						
TVPC 5	THSB 5	TPC 5	5.5	3.4	20.5	8.5



Closed End Connectors
Insulated (Pack 100)

Part Number		Dimensions (mm)			Conductor Size (mm²)
Insulated	Insulation Colour	D	d	Length (mm)	
TN1-CEC	Clear	6.4	4.9	15.3	1 - 1.75
TN2-CEC	Clear	6.6	5.7	15.3	1 - 2.5
TN5-CEC	Clear	9.4	7.2	17.1	2 - 5.5



In line Splice & Fuse holder
(Pack 100)



	Red Splice	Blue Splice	Nylon Wire Tap	In line Fuse Holder
Cable size	0.8-2.0mm²	1.0-1.5mm²	1.0-2.0mm²	1.0-2.0mm²
Part Number	TS1	TS2	TS2M	TS2FT

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Pre-Insulated Terminals and Connectors

Quick Connect (Push On) Male Terminals

Insulated and Non Insulated (Pack 100)

Part Number		Dimensions (mm)			Conductor Size (mm²)	
Vinyl Insulated	Non Insulated	Tab Width	Tab Thick	Length	Insulated	Non Insulated
Size 1, Red, 0.25 - 1.65mm² 22-16AWG						
TVPO 1-4.8M		4.8	0.8	9.5	0.5 - 1.5	
TVPO 1-6.3M	TPO 1-6.3M	6.3	0.8	9.5	0.5 - 1.5	0.3 - 0.75
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG						
TVPO 2-4.8M		4.8	0.8	9.5	1.5 - 2.5	
TVPO 2-6.3M	TPO 2-6.3M	6.3	0.8	9.5	1.5 - 2.5	1.0 - 2.5
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG						
TVPO 5-6.3M		6.3	0.8	9.5	2.5 - 6.5	



Quick Connect (Push On) Female Terminals

Insulated and Non Insulated (Pack 100)

Part Number					Dimensions	
Vinyl Half Insulated	Vinyl Fully Insulated	Nylon Fully Insulated	Non Insulated	Flag - Non Insulated	Suit Tab Width (mm)	Conductor Size (mm²)
Size 1, Red, 0.25 - 1.65mm² 22-16AWG						
TVPO 1-2.5F5		TNFPO 1-2.8F5			2.8 x 0.5	0.5 - 1.5
TVPO 1-2.8F8	TVFPO 1-2.8F8	TNFPO 1-2.8F8	TPO 1-2.8F8		2.8 x 0.8	0.5 - 1.5
TVPO 1-4.8F5	TVFPO 1-4.8F5		TPO 1-4.8F5		4.8 x 0.5	0.5 - 1.5
TVPO 1-4.8F8	TVFPO 1-4.8F8				4.8 x 0.8	0.5 - 1.5
TVPO 1-6.3F	TVFPO 1-6.3F	TNFPO 1-6.3F	TPO 1-6.3F	TPO 1-6.3FLAG	6.3	0.5 - 1.5
Size 2, Blue, 1.04 - 2.63mm² 16-14AWG						
TVPO 2-2.8F8	TVFPO 2-2.8F8		TPO 2-2.8F8		2.8 x 0.8	1.5 - 2.5
TVPO 2-4.8F5	TVFPO 2-4.8F5		TPO 2-4.8F5		4.8 x 0.5	1.5 - 2.5
TVPO 2-4.8F8	TVFPO 2-4.8F8		TPO 2-4.8F8		4.8 x 0.8	1.5 - 2.5
TVPO 2-6.3F	TVFPO 2-6.3F	TNFPO 2-6.3F	TPO 2-6.3F		6.3	1.5 - 2.5
Size 5, Yellow, 2.63 - 6.64mm² 12-10AWG						
TVPO 5-6.3F	TVFPO 5-6.3F		TPO 5-6.3F		6.3	2.5 - 6.0
TVPO 5-9.5F			TPO 5-9.5F		9.5	2.5 - 6.0



Interlocking Nylon Disconnectors

Insulated 6.3 x0.8mm Tabs (Pack 100)



Female	Male	Female Flag	Female	Male	Female Flag
Size 1, Red, 0.25 - 1.65mm² 22-16AWG			**Size 2, Blue, 1.04 - 2.63mm² 16-14AWG**		
TVFPO1-6.3FIT	TVFPO1-6.3MIT	TNF01-6.3FLAG	TVFP02-6.3FIT	TVFPO2-6.3MIT	TNFPO2-6.3FLAG

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Pre-Insulated Terminals and Connectors

Quick Connect Piggy Back Adaptors

Insulated and Non Insulated (Pack 100)







Vinyl Insulated	Non Insulated	Vinyl Insulated	Vinyl Insulated	Non Crimp
Size 1, Red, 0.25 - 1.65mm²		Size 2, Blue, 1.04 - 2.63mm²	Size 5, Yellow, 2.63 - 6.64mm²	
TVPOA1–6.3	TPOA1–6.3	TVPOA2–6.3	TVFPOA5-6.36.3MIT	6.3 x 0.8

Brass Tabs

4mm Stud Size (Pack 100)








Part Number	TT1	TT145	TT190	TT2	TT245	TT290

PVC Insulating Covers

Push on Terminal Covers (Pack 100)

Suit TAB	Inline	Flag
2.8 mm	TVC2.8	
6.3 mm	TVC6.3-1	TVC6.3FLAG




Heavy Duty Sheet Terminals

Copper Seam Lugs

Part Number	Conductor Size (mm²)	Stud Size (mm)	Pack qty
THD10–5	10	5	50
THD10–6		6	50
THD10–8		8	50
THD10–10		10	50
THD10–12		12	50
THD16–5	16	5	50
THD16–6		6	50
THD16–8		8	50
THD16–10		10	50
THD16–12		12	50
THD25–5	25	5	20
THD25–6		6	20
THD25–8		8	20
THD25–10		10	20
THD25–12		12	20

Straight	Conductor Size (mm²)	Stud Size (mm)	Pack qty
THD35–6	35	6	20
THD35–8		8	20
THD35–10		10	20
THD35–12		12	20
THD50–6	50	6	20
THD50–8		8	20
THD50–10		10	20
THD50–16		16	20
THD70–6	70	6	10
THD70–8		8	10
THD70–10		10	10
THD70–12		12	10
THD70–16		16	10
THD95–10	95	10	5
THD95–12		12	5



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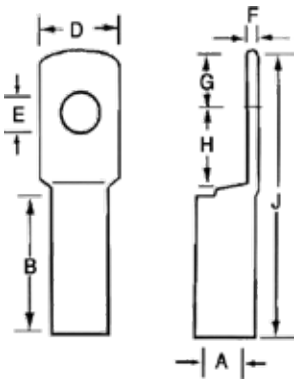
Tinned Copper Lugs

Tested to Australian and New Zealand Standards

Tinned Copper Lugs are made to the highest possible specifications and are Electro Tinned finished. Only the highest grade Oxygen Free copper is used, with a conductivity of 99.9% by I.A.C.S. Standards. The TCL range is manufactured to Australian Dimensions, complies with Australian Standard AS/NZ4325.1 and is fully compatible with existing Australian Tooling.







Part Number	Cable Size (mm^2)	Stud Size (mm)	A/F Hex Die Size	Dimensions (mm)								Pack Qty
				øA	B	D	øE	F	G	H	J	
TCL 1.5-4	1.5	4	N/A	1.8	7.5	8	4.2	1	4	5	18.5	100
TCL 1.5-5		5					5.2					
TCL 1.5-6		6				10	6.2	0.8	5	6	20.5	
TCL2.5-4	2.5	4	N/A	2.4	7	8	4.2	1	4	5	18	100
TCL2.5-5		5				10	5.2	0.8	5	6	20	
TCL 2.5-6		6					6.5					
TCL2.5-8		8				11	8.2	0.7	6.5	8.5	24	
TCL4-5	4	5	N/A	3.1	9	10	5.2	1	5	6	22	100
TCL4-6		6					6.2					
TCL4-8		8				12	8.2	0.8	6.5	8.5	26	
TCL6-5	6	5	4.4	3.8	9	10	5.2	1.2	5	6	23	100
TCL6-6		6				12	6.5	1	6	9	27	
TCL6-8		8					8.4		5.5	9.5		
TCL 6-10		10				16	10.2	0.8	9	11	32	
TCL 10-5	10	5	5.7	4.7	10	12	5.2	1.8	6	8	27	50
TCL 10-6		6					6.5					
TCL 10-8		8				14	8.4	1.6	7	9	29	
TCL 10-10		10				16	10.5	1.4	8.5	10.5	32	
TCL 10-12		12				18	13	2.4	-	-	-	
TCL 16-6	16	6	6.3	5.5	19	11	6.5	2.4	6	8	37	50
TCL 16-8		8				14	8.4	1.7	7	9	39	
TCL 16-10		4				16	10.5	1.5	8	10	41	
TCL 16-12		12				18	13	2.4	10	13	46	
TCL 25-6	25	6	7.7	7.1	21	13.5	6.5	2.4	7	9	41	50
TCL 25-8		8					8.4					
TCL 25-10		10				16	10.5	1.9	9	10	44	
TCL 25-12		12				18	13	1.6	10	13	48	
TCL35-6	35	6	9.2	8.2	21	16	6.5	3	8	10	44	50
TCL35-8		8					8.4					
TCL35-10		10				18	10.5	2.6	9	11	46	
TCL 35-12		12			22	20	13	2.2	11	13	51	

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Cable Lugs & Links

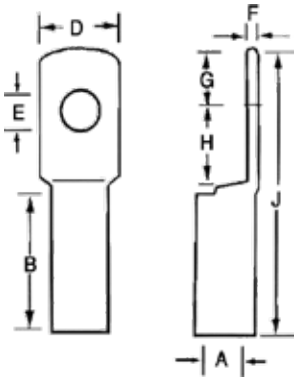
Tinned Copper Lugs

Tested to Australian and New Zealand Standards

Tinned Copper Lugs are made to the highest possible specifications and are Electro Tinned finished. Only the highest grade Oxygen Free copper is used, with a conductivity of 99.9% by I.A.C.S. Standards. The TCL range is manufactured to Australian Dimensions, complies with Australian Standard AS/NZ4325.1 and is fully compatible with existing Australian Tooling.







Part Number	Cable Size (mm^2)	Stud Size (mm)	A/F Hex Die Size	Dimensions (mm)								Pack Qty
				øA	B	D	øE	F	G	H	J	
TCL 50-6	so	6	10.4	9.5	22	18	6.5	3.3	9	11	48	50
TCL50-8		8					8.4					
TCL 50-10		10					10.5					
TCL 50-12		12				21	13	2.7	11	13	52	
TCL 70-6	70	6	11.5	11.2	24	21	6.5	3.5	11	13	54	20
TCL 70-8		8					8.4					
TCL 70-10		10					10.5					
TCL 70-12		12					13					
TCL95-8	95	8	14.2	13.4	27	25	8.4	4	12	14	60	20
TCL 95-10		10					10.5					
TCL 95-12		12					13					
TCL 95-16		16				28	17	3.4	14	16	64	
TCL 120-8	120	8	16.5	15.6	30	29.5	8.4	5	12	14	64	10
TCL 120-10		10					10.5					
TCL 120-12		12					13					
TCL 120-16		16					17		14	16	68	
TCL 150-10	150	10	18.3	16.7	30	32	10.5	5.8	16	16	71	10
TCL 150-12		12					13		20	21	80	
TCL 150-16		16					17					
TCL 185-10	185	10	20	18.4	32	34.8	10.5	5.8	16	16	74	1
TCL 185-12		12					13		20	21	83	
TCL 185-16		16					17					
TCL240B	240	Blank	23.1	21.2	38	40	Blank	7	G+H=42		92	1
TCL 240-10		10					10.5		21	21		
TCL 240-12		12					13					
TCL 240-16		16					17					
TCL300B	300	Blank	26	23.5	42	44.7	-	7.8	G+H=46		101	1
TCL 300-12		12					13		23	23		
TCL300-16		16					17					
TCL400B	400	Blank	28.1	26.8	44	so	Blank	8	G+H=52		114	1
TCL500B	500	Blank	31	30	48	56	Blank	9	G+H=56		124	1
TCL630B	630	Blank	37	34	56	64.4	Blank	11	G+H=56		134	1

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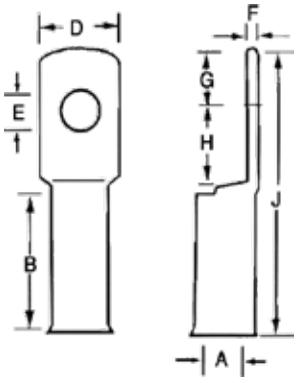
Bell Mouth Lugs

Tested to Australian and New Zealand Standards

Tinned Copper Bell Mouth Lugs are made to the highest possible specifications and are Electro Tinned finished. Only the highest grade Oxygen Free copper is used, with a conductivity of 99.9% by I.A.C.S. Standards. The TCB range is manufactured to Australian Dimensions, complies with Australian Standard AS/NZ4325.1 and is fully compatible with existing Australian Tooling.







Part Number	Cable Size (mm^2)	Stud Size (mm)	A/F Hex Die Size	Dimensions (mm)								Pack Qty
				øA	B	D	øE	F	G	H	J	
TCB10-8	10	8	5.7	4.7	10	13	8.4	1.7	7	9	29	50
TCB10-10		10				16	10.5	1.5	9	10	38	
TCB16-6	16	6	6.3	5.5	19	11	6.5	2.4	6	8	37	50
TCB16-8		8				14	8.4	1.7	7	9	39	
TCB16-10		10				16	10.5	1.5	8	10	41	
TCB16-12		12				17	13	1.2	11	12	48	
TCB25-6	25	6	7.7	7.1	21	13.5	6.5	2.4	7	9	41	50
TCB25-8		8					8.4					
TCB25-10		10				16	10.5	1.9	9	10	44	
TCB25-12		12				18	13	1.7	10	13	49	
TCB35-6	35	6	9.2	8.2	21	16	6.5	3	8	10	44	50
TCB35-8		8					8.4					
TCB35-10		10				18	10.5	2.6	9	11	46	
TCB35-12		12				20	13	2.2	10	12	51	
TCB50-8	50	8	10.4	9.5	22	18	8.4	3.3	9	11	48	50
TCB50-10		10					10.5					
TCB50-12		12				21	13	2.7	11	13	52	
TCB70-8	70	8	11.5	11.2	24	21	8.4	3.5	11	13	54	20
TCB70-10		10					10.5					
TCB70-12		12					13					
TCB95-8	95	8	14.2	13.4	27	25	8.4	3.6	12	14	60	20
TCB95-10		10					10.5	4				
TCB95-12		12					13					
TCB120-8	120	8	16.5	15.6	30	29	8.4	4.9	12	14	65	10
TCB120-10		10				29.5	10.5	5			64	
TCB120-12		12					13					
TCB150-10	150	10	18.3	16.7	30	32	10.5	5.8	16	16	71	10
TCB150-12		12					13		20	21	80	
TCB185-10	185	10	20	18.4	32	34.8	10.5	5.8	16	16	74	1
TCB185-12		12					13		20	21	83	
TCB240B	240	Blank	23.1	21.2	38	40	Blank	7	G+H=42		92	1
TCB240-12		12					13					
TCB300B	300	Blank	26	23.5	42	44.7	Blank	7.8	G+H=46		101	1

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Cable Lugs & Links

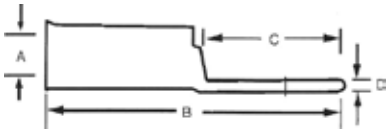
Narrow Palm Lugs / Circuit Breaker Lugs

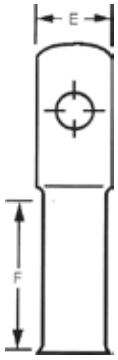
Tested to Australian and New Zealand Standards

Narrow Palm Circuit Breaker Lugs are made to the highest possible specifications and are Electro Tinned finished. Only the highest grade Oxygen Free copper is used, with a conductivity of 99.9% by I.A.C.S. Standards. The TCLNP range is manufactured to Australian Dimensions, complies with Australian Standard AS/NZ4325.1 and is fully compatible with existing Australian Tooling.









Part Number	Cable Size (mm²)	Stud Size (mm)	A/F Hex Die Size	Dimensions (mm)						Pack Qty
				øA	B	C	D	E	F	
TCLNP 35-6	35	6	9.2	8.2	41	15	3	15	21	1
TCLNP 50-6	50	6	10.4	9.5	43	15	3.2	15	22	1
TCLNP 50-10		10			49	21		19		
TCLNP 70-6	70	6	11.5	11.2	45	15	3.3	17	24	1
TCLNP 70-8		8			51	21		19		
TCLNP 70-10		10								
TCLNP 95-8	95	8	14.2	13.4	51	17	3.9	19	27	1
TCLNP 95-10		10			55	21				
TCLNP 120-8	120	8	16.5	15.6	61	23	5	19	30	1
TCLNP 120-10		10								
TCLNP 150-8	150	8	18.3	16.7	66	27	5.5	19	30	1
TCLNP 150-10		10								
TCLNP 185-10	185	10	20	18.4	74	32	5.7	31	32	1
TCLNP 240-10	240	10	23.1	21.2	82	32	7.1	31	38	1
TCLNP 300-10	300	10	26	23.5	87	32	7.8	31	42	1

Bi-Metal Lugs

- For Aluminium cable to Copper Stud Termination
- Manufactured from High purity copper and Aluminium rod
- Friction Welded

Part Number	Conductor size (mm²)	Stud Size (mm)	Overall Length (mm)	Aluminium Tunnel Length (mm)	Pack qty
BM25–10	25	10	75	32	1
BM35–10	35	10	75	32	
BM50–12	50	12	75	32	
BM70–12	70	12	75	32	
BM95–12	95	12	115	60	
BM120–12	120	12	115	60	
BM150–12	150	12	120	60	
BM185–12	185	12	120	60	
BM240–12	240	12	130	60	
BM300–12	300	12	130	60	



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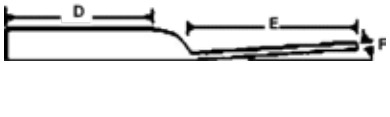
Cable Lugs & Links

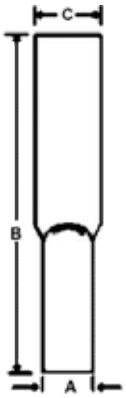
Long Palm, Long Barrel Lugs

Tested to Australian and New Zealand Standards

Long Palm, Long Barrel Lugs are made to the highest possible specifications and are Electro Tinned finished. Only the highest grade Oxygen Free copper is used, with a conductivity of 99.9% by I.A.C.S. Standards. The TCLLP range is manufactured to Australian Dimensions, complies with Australian Standard AS/NZ4325.1 and is fully compatible with existing Australian Tooling.







Part Number	Cable Size (mm²)	A/F Hex Die Size	Dimensions (mm)						Pack Qty
			øA	B	C	D	E	F	
TCLLPLB16	16	6.3	5.5	86	16	40	61	1.5	1
TCLLPLB25	25	7.7	7.1	95	16	40	61	1.9	1
TCLLPLB35	35	9.2	8.2	112	18	45	72	2.6	1
TCLLPLB50	50	10.4	9.5	130	18.2	50	80	3.3	1
TCLLPLB70	70	11.5	11.2	154	21.1	50	100	3.5	1
TCLLPLB95	95	14.2	13.4	161	25	50	100	3.9	1
TCLLPLB120	120	16.5	15.6	168	28.5	50	100	5	1
TCLLPLB150	150	18.3	16.7	169	32	50	100	5.8	1
TCLLPLB185	185	20	18.4	174	35	55	100	5.8	1
TCLLPLB240	240	23.1	21.2	192	40	90	100	7.1	1
TCLLPLB300	300	26	23.5	208	45	90	105	7.7	1

Copper Crimp Links - Butts

Straight	Bell Mouth	Conductor Size (mm²)	Pack qty
TCLK1.5		1.5	100
TCLK2.5		2.5	100
TCLK4	TCBK4	4	100
TCLK6	TCBK6	6	100
TCLK10	TCBK10	10	50
TCLK16	TCBK16	16	50
TCLK25	TCBK25	25	50
TCLK35	TCBK35	35	50
TCLK50	TCBK50	50	50
TCLK70	TCBK70	70	20

Straight	Bell Mouth	Conductor Size (mm²)	Pack qty
TCLK95	TCBK95	95	1
TCLK120	TCBK120	120	1
TCLK150		150	1
TCLK185		185	1
TCLK240		240	1
TCLK300		300	1
TCLK400		400	1
TCLK500		500	1
TCLK630		630	1



Line Taps

Conductor Size (mm²)	16	35	50	95	185
Part Number	BLT22	BLT24	BLT25	BLT26	BLT28



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Heatshrink & Sleeving

Braided Sleeving
-50°C to +150° C

PET Expandable Braided Sleeving is made from RoHS-compliant polyester yarn. It offers good expandability, flame retardancy, wear resistance, and thermal insulation. Good flexibility, easy bending, adjustable tightness, easy to operate, smooth surface, wear resistance, and good expandability. Fire rating: UL 94 VW-1



	Part Number	Flat Width (mm)	Relaxed Ø (mm)	Max Expansion Ø (mm)	Roll Size (Mtrs)
Handy Pack	HPET10	10	8	18	10
	HPET12	12	10	20	
	HPET18	18	16	28	
	HPET20	20	18	38	
	HPET24	25	22	40	
	HPET30	30	25	50	
	HPET40	40	35	70	
Bulk Reel	PET6	6	3.2	11	300
	PET10	10	8	18	
	PET12	12	10	20	200
	PET18	18	16	28	
	PET20	20	18	38	
	PET24	25	22	40	100
	PET30	30	25	50	
	PET40	40	35	70	
	PET50	50	40	80	





Spiral Binding
Black or Natural PE

Spiral wrapping band gathers loose cables into a single tidy bundle and protects them from abrasion where they flex or pass an edge.

Natural Part Number	Black Part Number	Wrapping Range (mm)	Roll Size (Mtrs)
SBN2	SBB2	4 – 25	10
SBN3	SBB3	6 – 60	
SBN4	SBB4	9 – 65	
SBN5	SBB5	15 – 100	
SBN24	SBB24	20 – 130	



Spiral Protective Wrap
Heavy Duty - Black HDPE

Spiral protective wrap provides heavy-duty protection for cables, and hydraulic/pneumatic hoses, preventing damage and wear. The unique rounded and beveled edges make the wrap easy to install on loose or mounted hoses and cables, and the wrap is suitable to use with equipment operating across extreme temperature ranges (-50°C to +120°C). Tough HDPE material provides protection from crushing and maintains spiral shape. UV resistant and protects against UV damage.

Part Number	Internal Ø (mm)	External Ø (mm)	Wall Thickness (mm)	Roll Size (Mtrs)
SBR16SSG	11.5	16	1.5	20
SBR20SSG	14	20	1.8	
SBR32SSG	25	32	2.4	



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2:1 Heatshrink Sticks

1.2 mtr Sticks



Universal heat shrink tubing with excellent physical and mechanical properties available in 1.2 metre lengths.

- Single Wall
- 2:1 Shrink Ratio
- Flexible
- Flame retardant
- Continuous operating temperature: -55°C~125°C
- Fully shrink temperature:125°C
- RoHS compliant

Red	White	Blue	Black	Green/Yellow	Clear	Expanded Ø (mm)	Lay Flat (mm)	Cable Lug (mm^2)	Busbar Size (mm)	Length (Mtrs)
HSS16RD	HSS16WE	HSS16BE	HSS16BLK		HSS16CLR	1.6				1.2
HSS24RD	HSS24WE	HSS24BE	HSS24BLK	HSS24GNYW	HSS24CLR	2.4				
HSS32RD	HSS32WE	HSS32BE	HSS32BLK	HSS32GNYW	HSS32CLR	3.2				
HSS48RD	HSS48WE	HSS48BE	HSS48BLK	HSS48GNYW	HSS48CLR	4.8	8	1.5 - 2.5		
HSS64RD	HSS64WE	HSS64BE	HSS64BLK	HSS64GNYW	HSS64CLR	6.4	11	6		
HSS95RD	HSS95WE	HSS95BE	HSS95BLK	HSS95GNYW	HSS95CLR	9.5	16	10 - 16		
HSS127RD	HSS127WE	HSS127BE	HSS127BLK	HSS127GNYW	HSS127CLR	12.7	19	25 - 35		
HSS190RD	HSS190WE	HSS190BE	HSS190BLK	HSS190GNYW	HSS190CLR	19	32	70 - 90	20 x 6.3	
HSS254RD	HSS254WE	HSS254BE	HSS254BLK	HSS254GNYW	HSS254CLR	25.4	38	120 - 150	25-30 x 6.3	
HSS381RD	HSS381WE	HSS381BE	HSS381BLK	HSS381GNYW		38.1	61	185 - 400	40-50 x 6.3	
HSS508RD	HSS508WE	HSS508BE	HSS508BLK		HSS508CLR	50.8	80	500 - 600	63 x 6.3	

2:1 Heatshrink Bulk Reels

UL Approved



Universal heat shrink tubing with excellent physical and mechanical properties available in reels.

- Single Wall
- 2:1 Shrink Ratio
- UL Approved
- Flame retardant
- Continuous operating temperature: -55°C~125°C
- Fully shrink temperature:125°C
- RoHS compliant

Red	White	Blue	Black	Green/Yellow	Clear	Expanded Ø (mm)	Lay Flat (mm)	Cable Lug (mm^2)	Busbar Size (mm)	Length (Mtrs)
HS12RD	HS12WE	HS12BE	HS12BLK		HS12CLR	1.2				200
HS16RD	HS16WE	HS16BE	HS16BLK		HS16CLR	1.6				
HS24RD	HS24WE	HS24BE	HS24BLK		HS24CLR	2.4				
HS32RD	HS32WE	HS32BE	HS32BLK	HS32GNYW	HS32CLR	3.2				
HS48RD	HS48WE	HS48BE	HS48BLK	HS48GNYW	HS48CLR	4.8	8	1.5 - 2.5		100
HS64RD	HS64WE	HS64BE	HS64BLK	HS64GNYW	HS64CLR	6.4	11	6		
HS95RD	HS95WE	HS95BE	HS95BLK	HS95GNYW	HS95CLR	9.5	16	10 - 16		
HS127RD	HS127WE	HS127BE	HS127BLK	HS127GNYW	HS127CLR	12.7	19	25 - 35		50
HS160RD	HS160WE	HS160BE	HS160BLK			16	25	50		
HS190RD	HS190WE	HS190BE	HS190BLK	HS190GNYW	HS190CLR	19	32	70 - 90	20 x 6.3	
HS254RD	HS254WE	HS254BE	HS254BLK	HS254GNYW	HS254CLR	25.4	38	120 - 150	25-30 x 6.3	
HS320RD	HS320WE	HS320BE	HS320BLK		HS320CLR	32	50	150 - 185	40 x 6.3	
HS381RD	HS381WE	HS381BE	HS381BLK	HS381GNYW	HS381CLR	38.1	61	185 - 400	40-50 x 6.3	
HS508RD	HS508WE	HS508BE	HS508BLK		HS508CLR	50.8	80	500 - 600	63 x 6.3	25
HS600RD	HS600WE	HS600BE	HS600BLK			60	94		80 x 10	
HS762RD	HS762WE	HS762BE	HS762BLK		HS762CLR	76.2	120		80-100 x 6.3	
HS1016RD	HS1016WE	HS1016BE	HS1016BLK			101.6	160		125 x 6.3	
HS1200RD	HS1200WE	HS1200BE	HS1200BLK			127	180		160 x 6.3	

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Heatshrink & Sleeving

2:1 Heat Shrink - Handy Packs

Flame Retardant

Universal heat shrink tubing with excellent physical and mechanical properties available in 1handy packs

- Single Wall
- 2:1 Shrink Ratio
- Flexible
- Flame retardant
- Continuous operating temperature: -55°C~125°C
- Fully shrink temperature:125°C
- RoHS compliant



Red	White	Blue	Black	Green/ Yellow	Clear	Expanded Ø (mm)	Lay Flat (mm)	Length (Mtrs)
HP16RD	HP16WE	HP16BE	HP16BLK		HP16CLR	1.6		20
HP24RD	HP24WE	HP24BE	HP24BLK		HP24CLR	2.4		
HP32RD	HP32WE	HP32BE	HP32BLK	HP32GNYW	HP32CLR	3.2		
HP48RD	HP48WE	HP48BE	HP48BLK	HP48GNYW	HP48CLR	4.8	8	10
HP64RD	HP64WE	HP64BE	HP64BLK	HP64GNYW	HP64CLR	6.4	11	
HP95RD	HP95WE	HP95BE	HP95BLK	HP95GNYW	HP95CLR	9.5	16	
HP127RD	HP127WE	HP127BE	HP127BLK	HP127GNYW	HP127CLR	12.7	19	
HP190RD	HP190WE	HP190BE	HP190BLK	HP190GNYW	HP190CLR	19	32	5
HP254RD	HP254WE	HP254BE	HP254BLK	HP254GNYW	HP254CLR	25.4	38	

Heat Shrink - Adhesive Lined End Caps

Black	Expanded Ø (mm)	Shrunk Ø (mm)
EC12/4	12	4
EC24/8	24	8
EC36/15	36	15
EC57/25	57	25
EC75/35	75	35

Black	Expanded Ø (mm)	Shrunk Ø (mm)
EC105/48	105	48
EC120/60	120	60
EC142/60	142	60
EC160/80	160	80



Heat Shrink - With Zipper & Adhesive

900mm Sticks

Cable repair sleeve, also known as cable sheath sheet, zipper heat shrink tube, heat shrink cable connection outer sheath; polyolefin material, coated with hot melt adhesive; used to quickly repair the damage of the cable outer sheath, providing rapid and permanent insulation, sealing and protection; simple construction and wide range of size selection; excellent tensile strength, wear resistance and corrosion resistance.

- Manufactured from polyolefin, inner coated with hot-melt adhesive.
- Providing fast and permanent repair and sealing protection for power cables.
- High tensile strength, abrasion and corrosion resistance.
- A corrosion proof metal channel is used to close the sleeve during installation.
- Shrink temperature: start at 90°C, and fully recovered at 130°C

Black	Size (mm)	Length (mm)
HSPWA100	100 - 30	900
HSPWA135	135 - 38	
HSPWA150	150 - 55	



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Nylon Cable Gland

Supplied with Locknut

Material:
Body: Polyamid
Sealing: Modified Rubber
Properties: UL94 (V2), Halogen, phosphor and cadmium free - RoHS compliant

Temperature Range:
-40°C to +100°C
(120°C short term)

Protection Class:
IP68
UV Resistant

Part Number	Thread	Thread Length (mm)	Cable Clamping Range (mm)	Locknut to suit
HSK-M12B-L-P	M12	15	3-6.5	Included
HSK-M16B-DL-P	M16	15	5-10	
HSK-M20B-DL-P	M20	15	8-14	
HSK-M25B-L-P	M25	15	13-18	
HSK-M32B-L-P	M32	15	18-25	
HSK-M40B-P	M40	13	22-32	
HSK-M50B-P	M50	14	30-38	



Nylon Spiral Gland

Locknut to be ordered separately

Material:
Body: Polyamid
Sealing: Modified Rubber
Properties: UL94 (V2), Halogen, phosphor and cadmium free - RoHS compliant

Temperature Range:
-40°C to +100°C
(120°C short term)

Protection Class:
IP68



Part Number	Thread	Thread Length (mm)	Cable Clamping Range (mm)	Locknut to suit
HSK-F-M16B-OR	M16	8	4-8	GMK-M16B
HSK-F-M20B-OR	M20	9	6-12	GMK-M20B
HSK-F-M25B-OR	M25	11	13-18	GMK-M25B

Brass Cable Gland

Supplied with Locknut

Material:
Body: Nickel plated brass
Insert: Polyamide
Sealing: Modified Rubber

Temperature Range:
-40°C to +100°C
(120°C short term)

Protection Class:
IP68

Part Number	Thread	Thread Length (mm)	Cable Clamping Range (mm)	Locknut to suit
HSM-M16-DL-M	M16	10	5-10	Included
HSM-M20-DL-M	M20	10	8-14	
HSM-M25-DL-M	M25	12	13-18	
HSM-M32-DL-M	M32	12	18-25	
HSM-M40-L-M	M40	15	22-30	
HSM-M50-L-M	M50	15	30-38	
HSM-M63-L-M	M63	15	37-44	



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EMC Brass Cable Gland

Supplied with Locknut

Material:
Body: Nickel plated brass
Insert: Polyamide
Sealing: Modified Rubber

Temperature Range:
-40°C to +100°C
(120°C short term)

Protection Class:
IP68

Part Number	Thread	Thread Length (mm)	Cable Clamping Range (mm)	Locknut to suit
HSM-EMVSC-M16L-ME	M16	10	4-8	Included
HSM-EMVSC1-M20L-ME	M20	10	9-14	
HSM-EMVSC-M25L-ME	M25	12	11-16	
HSM-EMVSC-M32L-ME	M32	12	18-25	
HSM-EMVSC-M40L-ME	M40	15	25-32	
HSM-EMVSC-M50L-ME	M50	15	30-38	
HSM-EMVSC1-M63L-ME	M63	15	38-53	



Thread Enlarger

Includes O-Ring, IP68



Part Number	Thread Conversion	Pack Qty
EWM-M16/M20	M16 to M20	50
EWM-M20/M25	M20 to M25	50
EWM-M25/M32	M25 to M32	25
EWM-M32/M40	M32 to M40	25
EWM-M40/M50	M40 to M50	20

Thread Reducer

Includes O-Ring, IP68



Part Number	Thread Conversion	Pack Qty
REM-M20/M16	M20 to M16	100
REM-M25/M20	M25 to M20	50
REM-M32/M25	M32 to M25	25
REM-M40/M32	M40 to M32	25
REM-M50/M40	M50 to M40	8

Locknuts

Metric







Thread	Nickle Plated Brass	EMC	Nylon	Blanking Plug (metal)	Blanking Plug (Nylon)
M12	GM-M12	GME-M12	GMK-M12B	DPMC-M12	DPK-M12B
M16	GM-M16	GME-M16	GMK-M16B	DPMC-M16	DPK-M16B
M20	GM-M20	GME-M20	GMK-M20B	DPMC-M20	DPK-M20B
M25	GM-M25	GME-M25	GMK-M25B	DPMC-M25	DPK-M25B
M32	GM-M32	GME-M32	GMK-M32B	DPMC-M32	DPK-M32B
M40	GM-M40	GME-M40	GMK-M40B	DPMC-M40	DPK-M40B
M50	GM-M50	GME-M50	GMK-M50B	DPMC-M50	DPK-M50B
M63	GM-M63	GME-M63	GMK-M63B	DPMC-M63	DPK-M63B

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Snap In Bushes
(Pack 100)

Bushings are used to safeguard wires and cables where they pass through cut-outs in metal or plastic panels. By creating a smooth, insulated barrier, they reduce the risk of wear from sharp edges and help maintain cable integrity. Suitable for many industries, these components support safer, longer-lasting wiring installations.

Material: Nylon 66

Flammability Properties: UL94 (V2)

Temperature Range: -18°C to +105°C

Part Number	Cutout ⌀ (mm)	Internal ⌀ (mm)
SB6	6 mm	3.2mm
SB9	9 mm	6.4mm
SB11	11 mm	7.9mm
SB14	14 mm	11.1mm
SB16	16 mm	12.2mm
SB19	19 mm	14.3mm
SB22	22 mm	17.3mm
SB25M	25 mm	19.1mm

Part Number	Cutout ⌀ (mm)	Internal ⌀ (mm)
SB25	25.6 mm	19.1mm
SB30	30 mm	23.8mm
SB32	32mm	25.4mm
SB35	35 mm	25.4mm
SB38	38 mm	33.3mm
SB40	40 mm	35 mm
SB50	50 mm	41.6mm



Nylon Hole Plugs
Snap in Dome shape

Dome Plugs are quick and easy to install. They are ideal to close unused holes in panels, enclosures and electrical knockouts. Available to suit a range of hole diameters.

Material: Nylon 66

Flammability Properties: UL94 (V2)

Temperature Range: -40°C to +105°C

Part Number	Cutout ⌀ (mm)	Pack Qty
HP5	5 mm	100
HP5.5	5.5 mm	100
HP6	6 mm	100
HP8	8 mm	100
HP10	10 mm	100
HP13	13mm	100
HP16	16 mm	100
HP19	19 mm	100

Part Number	Cutout ⌀ (mm)	Pack Qty
HP22	22 mm	100
HP25	25 mm	100
HP32	32 mm	100
HP38	38 mm	100
HP40	40 mm	100
HP50	50mm	100
HP63	63 mm	100

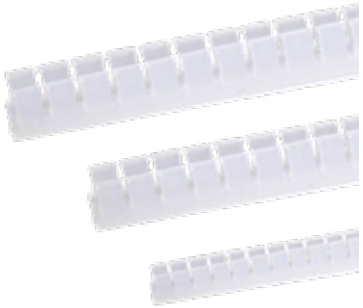


Grommet Strip (Movable Bushing)
(Length 10 mtrs)

A grommet strip is used to protect cables, wires, and hoses from abrasion or damage when passing through sharp or rough edges in panels, enclosures, or machinery.

Part Number	Panel Thickness (mm)	Colour
GS1	1.0 – 1.6	Natural
GS2	1.6 – 2.0	Natural

Part Number	Panel Thickness (mm)	Colour
GS3	2.0 – 2.4	Natural
GS4	3.2 – 4.5	Natural



Push Rivets
(Pack 100)

Black	Panel Thickness (mm)	Hole size (mm)
PR9030	2 - 3	3.1
PR9038	5.5 - 6.5	3.1



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Cable Ties

Nylon Cable Ties
(Pack 100)

Good resistance to bases, oils, greases, oil derivates,chloride solvents. Limited resistance to acids. Not resistant to phenols. Carbon black addition gives UV & weather resistance.

Material: Polyamide 6.6

Flammability Properties: UL94 (V2)

Temperature Range: -40°C to +85°C

Black	Natural	Dimensions	Tensile Strength (kg)	Range	Carton Qty (Packs)
TTB20M	TT20M	102 x 2.5	8.1	Miniature	700
TTB30M	TT30M	140 x 2.5			600
TTB40M		162 x 2.5			500
TTB30I	TT30I	140 x 3.6	18.2	Intermediate	400
TTB50I	TT50I	204 x 3.6			250
TTB50S	TT50S	200 x 4.8	22	Standard	180
TTB70S	TT70S	252 x 4.8			140
TTB75S	TT75S	286 x 4.8			140
TTB100S	TT100S	371 x 4.8			120
TTB80LH		292 x 7.6	54.5	Light Duty	75
TTB105LH		368 x 7.6			60
TTB115H		450 x 7.6	79.4	Heavy Duty	50
TTB140H		540 x 7.6			40



Accessories
(Pack 100)

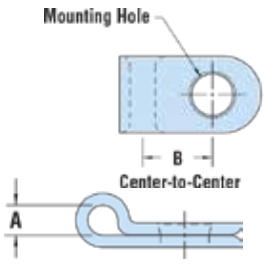
Black	Natural	Description	Size (mm)	Hole Size (mm)
HA101B	HA101	Two Way Adhesive Bases	19 x 19	na
HA102B	HA102		28 x 28	na
HC0B	HC0N	Fixing Eyelets	9.5 x 19	3.5
	HC1N	Fixing Cradles	10 x 15	3.5
HC2B	HC2N		16 x 23	6



Adhesive Base Eyelet Cradle

P Clips
(Pack 100)

	Black	Natural	A (mm)	B (mm)	Mounting hole (mm)	Width (mm)
Light Duty 1.3mm Thick	TPC19B	TPC19	4.7	9.7	5.2	9.5
	TPC22B	TPC22	7.9	11.7	4.3	
	TPC24B	TPC24	9.5	12.2	5.2	
Heavy Duty 1.5mm Thick	TPC31B	TPC31	12.7	14.7	5.2	12.7
	TPC35B	TPC35	19.1	18	5.2	
	TPC43B	TPC43	25.4	21.6	5.2	





Stainless Steel (316 grade) Cable Ties
(Pack 100)

Part Number	Dimensions
SS200/316	200 X 4.6
SS360/316	360 X 4.6
SS200H/316	200 X 7.9
SS360H/316	360 X 7.9
SS520H/316	520 X 7.9
SS680H/316	680 X 7.9



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KDSClick Cable Entry System

Revolutionary IP66 cable entry system

Fast. Safe. Very simple. Our KDSClick cable entry system, is a cable management solution for switchgear cubicles, enclosures, 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.

THREE PARTS, MANY SOLUTIONS! - A frame. An inlay. A seal. - The modular design of these three basic components, guarantees maximum versatility, variability and variety.

The seals can be removed by pressing from the outside, inwards. Changes, retrofits, service work, or the readjustment of cable lengths, can be made when needed, without removing the frame.An optional inner locking frame can be used to prevent the possibility of unwanted external manipulation.

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.



Frames

IP66

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 gasket, guarantees an optimal seal with IP66 protection, even on painted or rough surfaces. Dimensions correspond with standard industrial multipole cutouts (except single row frames). Note: 4 x small inserts takes up the same space as 1 x large insert in the frame.



	KDS-SR 1-4 BK	KDS-SR 6/10 BK	KDS-SR 8/16 BK	KDS-SR 10/24 BK	KDS-FP 2 x 10/24	KDS-FP 3 x 10/24
Dimensions (mm)	70x81	70x106	70x126	70x153	70x153	70x153
Small insert spaces	4	6	8	10	20	30
Mounting frame	28506.4	28500.4	28502.4	28504.4	28660.4	28661.4
Locking frame	28507.4	28501.4	28503.4	28505.4	28664.3	28664.3



	KDS-SR-FB1/A	KDS-SR-FB2/A	KDS-SR-FB2/B	KDS-SR-FB3/A	KDS-SR-FB3/B	KDS-SR-FB3/C	KDS-SR-FB3/D
Dimensions (mm)	73x39	98x39	98x39	120x39	120x39	120x39	120x39
Mounting frame	28700.4	28701.4	28702.4	28703.4	28704.4	28705.4	28706.4



	KDS-SR-FB4/A	KDS-SR-FB4/B	KDS-SR-FB4/C	KDS-SR-FB4/D	KDS-SR-FB4/E	KDS-SR-FB4/F
Dimensions (mm)	147x39	147x39	147x39	147x39	147x39	147x39
Mounting frame	28707.4	28708.4	28709.4	28710.4	28711.4	28712.4

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Cable Entry Systems

Split Cable Glands

IP66

For metric break-outs, CONTA-CLIP provides split cable glands, from M20 to M63 for cables with or without connectors. During servicing or retrofitting, with pre-assembled cable harnesses, cables with diameters from 2 to 35 mm can quickly and safely be guided into the switch-gear cabinet or housing, and then sealed to IP66. The divisible system ensures quick and simple assembly. 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. Depending on the size of the cable gland, up to four seals can be inserted, (*M40 accepts large seal only).







	Small (accepts 1 x small seal)			Large (accepts 1 x large seal or 4 x small seals*)		
	M20	M25	M32	M40	M50	M63
Part Number	28610.4	28611.4	28612.4	28613.4	28614.4	28615.4

Round Frames

IP66

Round cable entries - The round cable entry KDS-R ensures quick and secure assembly of hoses and electrical cables in switchboxes and switchgear cabinets. The seals (TPE) integrated into the cable entry ensure an outstanding seal in accordance with IP66 on painted and rough surfaces.

Thread adapter - The two-piece thread and locking adapter is screwed together with the round cable entry. It locks with a form fit with the cable entry and therefore ensures that the seals and inlays are mechanically secured. The thread and locking adapters located on the switchgear cabinet or housing interior are available in six common diameters for metric break-outs from M20 – M32 and M40 – M63.







	M20 - M32			M40 - M63		
Thread	Cable Entry Frame	Thread Adaptor	Locknut	Thread	Cable Entry Frame	Thread Adaptor	Locknut
M20	28770.4	28771.4	28616.4	M40	28774.4	28775.4	28619.4
M25		28772.4	28617.4	M50		28776.4	28620.4
M32		28773.4	28618.4	M63		28777.4	28621.4

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Inlays
IP66

The click-in inlays, allow for a requirements-based dimensioning of the frame opening, for 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).






	Inlay for vertical split	Inlay T shape	Inlay for 4 way splits	Inlay for 6 way splits
Part Number	28516.4	28517.4	28518.4	28519.4

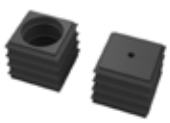
Seals (inserts)
IP66

The seal’s tapered shape, allows it to be easily pressed in. It reliably seals the gaps, and provides 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, make them easy to install, and ensures a perfect fit around the cables. Note: 4 x small inserts takes up the same space as 1 x large insert. Black inserts stocked in Australia. Grey available ex Germany, upon request, and subject to MOQ’s.

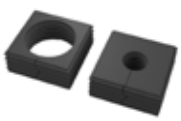
Seal specifications:

- Material: TPE
- Flammability: UL94 HB
- Temperature range: – 40 °C to +120 °C (static)
- Halogen-free, silicone-free
- Excellent resistance to chemicals
- UV-stabilized
- Protection: IP66
- Grey UL94 V0 seals also available upon request









Small insert

Cable Ø (mm)	Black
Blank	28520.4
1-2	28521.4
2-3	28522.4
3-4	28523.4
4-5	28524.4
5-6	28525.4
6-7	28526.4
7-8	28527.4
8-9	28528.4
9-10	28529.4
10-11	28530.4
11-12	28531.4
12-13	28532.4

Cable Ø (mm)	Black
13-14	28533.4
2x 4-5	28555.4
2x 5-6	28556.4
2x 7	28689.4
2x 8	28691.4
4x 2-3	28557.4
4x 3-4	28558.4
4x 5	28672.4
4x 6	28763.4
1x ASI	28559.4
2x ASI	28560.4
2-15 (cone)	28553.4

Large insert

Cable Ø (mm)	Black
Blank	28534.4
14-15	28535.4
15-16	28536.4
16-17	28537.4
17-18	28538.4
18-19	28539.4
19-20	28540.4
20-21	28541.4
21-22	28542.4
22-23	28543.4
23-24	28544.4

Cable Ø (mm)	Black
24-25	28545.4
25-26	28546.4
26-27	28547.4
27-28	28548.4
28-29	28549.4
29-30	28550.4
30-31	28551.4
31-32	28552.4
32-33	28601.4
15-34 (cone)	28554.4

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KDS-FB Flat Cable Seals

IP66

The KDS-FB cable entry system for flat cables provides you with outstanding versatility and saves you time while managing cables, especially for forklifts, crane systems and elevator applications. The “fish skin” on the seals mechanically surround the inserted flat cable; they ensure optimum tolerance compensation and IP66 protection. CONTA-CLIP provides KDS-FB in four frame widths and with different divisions for flat and round cables. Sealing elements are available for all common industrial cable sizes.





Type	KDS-DE-FB1						KDS-DE-FB2	
Part Number	28713.6	28714.6	28715.6	28716.6	28717.6	28718.6	28719.6	28720.6
Cable Width (mm)	Blank	19-23	28-33	24-30	19-24	28-33	Blank	32.5-38
Cable Height (mm)		5.5-6	5.5-6	8.5-9	6.5-7	9-9.5		5-5.5



Type	KDS-DE-FB2				KDS-DE-FB3		KDS-DE-FB4	
Part Number	28721.6	28722.6	28723.6	28724.6	28725.6	28726.6	28727.6	28728.6
Cable Width (mm)	45-50.5	47-52	38-43	49-54	Blank	72-77	Blank	85-99
Cable Height (mm)	6-6.5	6-6.5	12.5-13	5-6		5-5.5		4.2-5.2

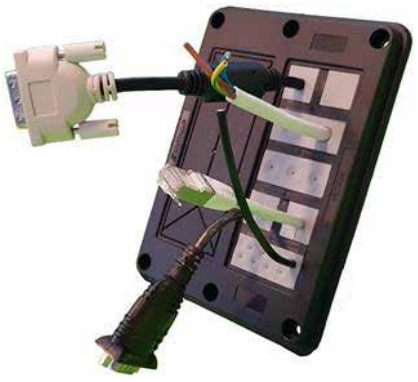
KDS-DES Multi Cable Seals

IP54

Developing the KDS-DES sealing elements for unassembled cables, CONTA-CLIP has transferred the simple cable entry principle of its KES system to its KDS cable feedthrough system.

To insert a cable, the membrane of the sealing element is first pierced at the marked center, whereupon the cable can be pushed through the selected channel. The design based on the proven KES system ensures reliable sealing according to the degree of protection IP54. The KDS-DES variants currently available accommodate up to eight cables, depending on the cable diameter, which can range between 4.5 mm and 10.5 mm.

KDS-DES sealing elements are compatible with almost all KDS solutions.





Part Number	28800.6	28801.6	28802.6	28803.6	28804.6	28805.6	28806.6
Cable Ø (mm)	2x10.5	3x9.5	3x8.5	4x7.5	7x6.5	8x5.5	8x4.5

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KES Cable Entry System

IP66

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. 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 materials used comply with the UL 94 V-0 classification.

The KES is designed for use in mounting cut-outs the same dimensions as 24-pin industrial multipoles, and is available in 3 different mounting options.





Screw on - KES

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



Screw/Clip - KES-GB

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



Snap on - KES-R

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



Mount Type				
KES	28630.6	28631.6	28632.6	28633.6
KES-GB	28640.6	28641.6	28642.6	28643.6
KES-R	28650.6	28651.6	28652.6	28652.6
Cable entry sizes (mm)	10 x 3.2–6.3	5 x 3.2–6.3	8 x 3.2-5.5	2 x 3.2–6.3
	3 x 16-20.5	2 x 4–7.5	6 x 5-8.5	9 x 4–7.5
		3 x 5.5-10.5	2 x 9.5-14.5	1 x 5.5–10.5
		1 x 8-12.5		1 x 8–12.5
		3 x 12-16.2		3 x 12–16.2



Mount Type				
KES	28634.6	28635.6	28636.6	28637.6
KES-GB	28644.6	28645.6	28646.6	28647.6
KES-R	28654.6	28655.6	28656.6	28657.6
Cable entry sizes (mm)	4 x 3.2–6.3	12 x 3.2–6.3	1 x 3.2–6.3	32 x 3.2-6.3
	2 x 4–7.5	8 x 5.5–10.5	14 x 4–7.5	
	1 x 5.5–10.5		4 x 5.5–10.5	
	10 x 8–12.5		2 x 8–12.5	

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KES-E Cable Entry System

IP54

The KES-E cable entry plates enable quick and safe feed-in of non-assembled cables and conduits into control cabinets and machine enclosures, without the need for cable glands. The cable entry plate can be installed without tools. The plate is simply pressed into a 36 mm x 112 mm standard opening in a cabinet or housing wall. KES-E-R Round frames fit into 50 mm Ø hole. The gasket's elastic inner sealing lip tightly curves around the opening inside the housing, ensuring a tight and vibration-proof hold.

The cable entry system provides IP54 protection against dust and splashing water ingress, and suitability for ambient temperatures from -40 °C to +90 °C.



Wall Thickness

1.5-2.5mm	28810.6	28811.6	28812.6	28813.6
2.5-4mm	28840.6	28841.6	28842.6	28843.6
Cable entry sizes (mm)	12 x 1.0 – 15	14 x 1.0 – 12.1	5 x 1.0 – 10.5	4 x 1.0 – 6.5
			12 x 1.0 – 12.6	5 x 1.0 – 10.5
				5 x 1.0 – 12.5
				4 x 1.0 – 16.1



Wall Thickness

1.5-2.5mm	28814.6	28815.6	28816.6	28817.6	28818.6
2.5-4mm	28844.6	28845.6	28846.6	28847.6	28848.6
Cable entry sizes (mm)	12 x 1.0 – 6.5	16 x 1.0 – 6.5	12 x 1.0 – 7.2	48 x 1.0 – 6.5	33 x 1.0 – 5.3
	7 x 1.0 – 12.1	4 x 1.0 – 12.1	17 x 1.0 – 6.4		9 x 1.0 – 6.4
		4 x 1.0 – 16.1	12 x 1.0 – 5.0		8 x 1.0 – 8.3
		2 x ASI	1 x 1.0 – 4.7		



Wall Thickness

1.5-2.5mm	28829.6	28830.6	28831.6	28832.6	28833.6	28834.6	28835.6
2.5-4mm	28859.6	28860.6	28861.6	28862.6	28863.6	28864.6	28865.6
Cable entry sizes (mm)	5 x 1.0 – 7.0	7x 1.0 –7.2	10 x 1.0 – 9.2	4 x 1.0 – 5.3	2 x 1.0 – 4.0	16 x 1.0 – 6.3	35 x 1.0 – 5.2
	4 x 1.0 – 18.0	3 x 1.0 – 11.2	2 x 1.0 – 11.2	5 x 1.0 – 6.3	2 x 1.0 – 6.0	4 x 1.0 – 9.3	
		1 x 1.0 – 22.5		3 x 1.0 – 9.5	4 x 1.0 – 7.2		
				4 x 1.0 – 11.3	5 x 1.0 – 9.4		
					5 x 1.0 – 12.0		

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KDS Brush Cable Entry

IP10

CONTA-CLIP's KDS-BS cable entry system is the ideal solution for applications that do not require a high level of tightness. The brush seal provides protection against dust and draughts, offers thermal insulation and creates a visual seal for the insertion of cables, both with and without connectors. The feed through is also ideal as edge protection.

The innovative KDS-BS systems enable cables to be fed through network cabinets, switch boxes and control cabinets as well as raised floors. Installation is carried out by screwing on for KDS-BS whereby the required cut-outs are based on the standard cut-outs of 24, 16 and 10-pole heavy-duty connectors









Size	10	16	24
Part Number	29000.4	29001.4	29002.4
Dimensions (mm)	100 x 58	120 x 58	147 x 58



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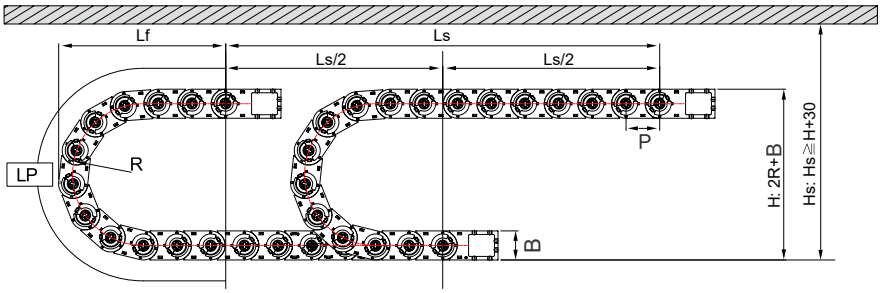
Drag Chain

Glass fibre reinforced polyamide, UL94-HB

Speed	10m/sec
Low Noise	40dB
Temperature	-30°C ~ +130°C

	Vertical Installation Lengths (max)		Side mounted (max)
Chain Type	Curve above	Curve Below	Unsupported
CPS015	0.8m	3.0m	0.2m
CPS020	1.0m	5.0m	0.5m
CPS030	1.5m	10.0m	0.6m
CPS033	1.5m	10.0m	0.6m





Lf: Loop Projection
Lp: Loop Length
Ls: Stroke
Hs: Safe Clearance
B: External Height
R: Bending Radius
P: Pitch
H: 2R + B
Hs: H + 30mm

Calculation of Chain length:
L= Ls / 2 + Lp

Ordering Guide

Add Bending radius to chain type part number

Cable Chain Item Number	**CPS015.**	**10**	**R28**
Internal Width			
Bending Radius (R)			

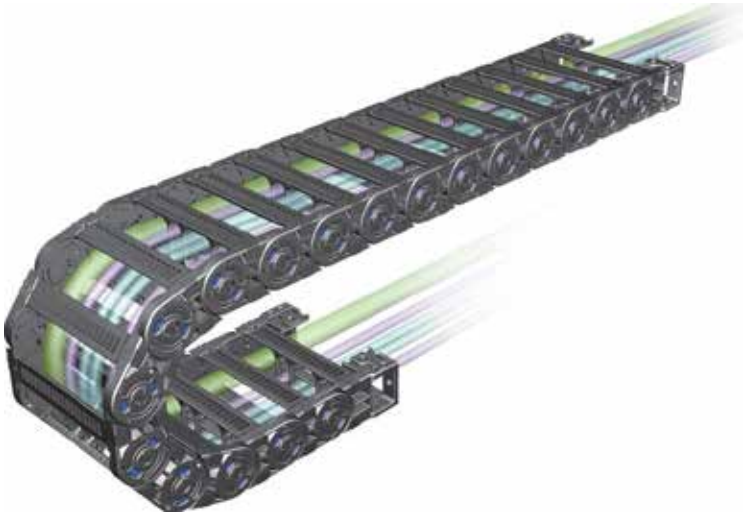
	Internal Dimensions (mm)		External Dimensions (mm)					
Part number	Width	Height	Width	Height (B)	Pitch (mm)	Bending Radius	End Bracket (set)	Tie Wrap (each)
CPS015.06	6	10	13	13	15	18/28/38	S-TEB015.06	
CPS015.10	10		17			18/28/38	S-TEB015.10	
CPS015.15	15		22			18/28/38	S-TEB015.15	
CPS015.20	20		27			18/28/38	S-TEB015.20	
CPS020.15	15	14.5	24	20	20	28/38/48	S-TEB020.15	
CPS020.20	20		29			28/38/48	S-TEB020.20	
CPS020.30	30		39			28/38/48	S-TEB020.30	
CPS020.40	40		49			28/38/48	S-TEB020.40	
CPS030.15	15	19	29	26	30	38/48/75/100	S-TEB030.15	
CPS030.25	25		39			38/48/75/100	S-TEB030.25	
CPS030.35	35		49			38/48/75/100	S-TEB030.35	
CPS030.50	50		64			38/48/75/100	S-TEB030.50	
CPS033.27	27	23	43	31	33	35/45/75/100/120	S-EEB033	S-TW033/020CR27
CPS033.37	37		53			35/45/75/100/120		S-TW033/020CR37
CPS033.47	47		63			35/45/75/100/120		S-TW033/020CR47
CPS033.67	67		83			35/45/75/100/120		S-TW033/020CR67
CPS033.77	77		93			35/45/75/100/120		S-TW033/020CR77

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Drag Chain

Glass fibre reinforced polyamide, UL94-HB

Speed	10m/sec
Low Noise	40dB
Temperature	-30°C ~ +130°C



	Vertical Installation Lengths (max)		Side mounted (max)
Chain Type	Curve above	Curve Below	Unsupported
ST044N	2.0m	40.0m	1.0m
ST055N	3.0m	50.0m	1.0m
ST072N	6.0m	100.0m	2.5m
ST095N	6.0m	100.0m	3.0m
ST120N	6.0m	120.0m	3.0m
ST150N	7.0m	150.0m	4.0m

Ordering Guide

Add Bending radius to chain type part number

Cable Chain Item Number	CPS015.	10	R28
Internal Width			
Bending Radius (R)			

	Internal Dimensions (mm)		External Dimensions (mm)				
Part number	Width	Height	Width	Height	Pitch (mm)	Bending Radius	End Bracket (set)
ST044N.35	35	26	56	38	44	50/70/90/120/150	ST-FEB044
ST044N.50	50		71				
ST044N.55	55		76				
ST044N.75	75		96				
ST044N.100	100		121				
ST044N.125	125		146				
ST044N.150	150		171				
ST044N.175	175		196				
ST044N.200	200		221				
ST055N.35	35	40	56	52	55	55/65/90/115/140/190	ST-FEB055
ST055N.50	50		71				
ST055N.55	55		76				
ST055N.75	75		96				
ST055N.100	100		121				
ST055N.125	125		146				
ST055N.150	150		171				
ST055N.175	175		196				
ST055N.200	200		221				
ST072N.50	50	45	82	66	72	72/100/120/145/200/250/300	ST-FEB072
ST072N.55	55		87				
ST072N.75	75		107				
ST072N.100	100		132				
ST072N.125	125		157				
ST072N.150	150		182				
ST072N.175	175		207				

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Drag Chain

Part number	Internal Dimensions (mm)		External Dimensions (mm)		Pitch (mm)	Bending Radius	End Bracket (set)
	Width	Height	Width	Height			
ST072N.200	200	45	232	66	72	72/100/120/145/200/250/300	ST-FEB072
ST072N.250	250		282				
ST072N.300	300		332				
ST095N.75	75	56	113	82	95	135/150/200/230/280/400	ST-FEB095
ST095N.100	100		138				
ST095N.125	125		163				
ST095N.150	150		188				
ST095N.175	175		213				
ST095N.200	200		238				
ST095N.250	250		288				
ST095N.300	300		338				
ST095N.350	350		388				
ST095N.400	400		438				
ST120N.75	75	78	117	108	120	180/200/250/300/350/400/500	ST-FEB120
ST120N.100	100		142				
ST120N.125	125		167				
ST120N.150	150		192				
ST120N.175	175		217				
ST120N.200	200		242				
ST120N.250	250		292				
ST120N.300	300		342				
ST120N.350	350		392				
ST120N.400	400		442				
ST120N.450	450		492				
ST120N.500	500		542				
ST120N.550	550		592				
ST120N.600	600		642				
ST150N.75	75	110	121	140	150	205/405/505/605	ST-FEB150
ST150N.100	100		146				
ST150N.125	125		171				
ST150N.150	150		196				
ST150N.175	175		221				
ST150N.200	200		246				
ST150N.250	250		296				
ST150N.300	300		346				
ST150N.350	350		396				
ST150N.400	400		446				
ST150N.450	450		496				
ST150N.500	500		546				
ST150N.550	550		596				
ST150N.600	600		646				

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Nylon Flexible Conduit

Industrial grade

Our flexible conduit is manufactured from halogen free polyamide (nylon) materials. It is flame retardant, IP68, and is suitable for a wide range of temperature applications from -50°C to + 105°C, and can stand short term exposure to 150°C.

The conduit fittings are also manufactured from polyamide materials, with similar environmental properties. The fittings are a simple push-on type, with no tools or adhesives required to obtain high ingress protection, and can be removed and reused by hand, without the use of tools.









Type	General
Description	High flex
Material	Polyamide 6
Temperature	-40°C to +105°C (150°C short term)
IP Rating	IP68
Flammability	UL94-V0 Halogen Free
Colour	Black

Outside Ø (mm)	Part Number	Internal Ø (mm)	Bending Radius (mm)
10	PAH-07B	6.4	15
13	PAH-10B	9.6	20
15.8	PAH-12B	11.8	30
21.2	PAH-16B	15.9	40
28.5	PAH-22B	21.7	45
34.5	PAH-28B	27.8	55
42.5	PAH-36B	36	60
54.5	PAH-48B	46.5	70
67.2	PAH-56B	56.3	110
82.5	PAH-70B	70	160
106	PAH-95B	91.5	210

Type	Robotic
Description	High to superior flex
Material	Polyamide 12
Temperature	-50°C to +95°C (150°C short term)
IP Rating	IP68
Flammability	UL94-V2 Halogen Free
Colour	Black

Part Number	Internal Ø (mm)	Bending Radius (mm)
PAR-07B	6.4	15
PAR-10B	9.6	20
PAR-12B	11.8	30
PAR-16B	15.9	40
PAR-22B	21.7	45
PAR-28B	27.8	55
PAR-36B	36	60
PAR-48B	46.5	70
PAR-56B	56.3	110
PAR-70B	70	160

Type	Split
Description	High flex
Material	Polyamide 6
Temperature	-40°C to +105°C (130°C short term)
IP Rating	Not applicable
Flammability	UL94-HB Halogen Free
Colour	Black

Part Number	Internal Ø (mm)	Bending Radius (mm)
CPSS-07B	6.4	15
CPSS-10B	9.6	20
CPSS-12B	11.8	30
CPSS-16B	15.9	40
CPSS-22B	21.7	45
CPSS-28B	27.8	55
CPSS-36B	36	60
CPSS-48B	46.5	70

Halogen free, eco-friendly and recyclable
Flame retardant, simple to cut



Technical Details

Construction Corrugated exterior and interior

Standards ATEX Directive 94/9/CE
DIN EN 61386-1 (VDE 0605-1)
DIN EN 61386-22 (VDE 0605-22)

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Nylon Flexible Conduit fittings
Industrial grade





	Straight	90° Elbow	
IP Rating	IP67	IP67	
Outside Ø (mm)	**Part Number**	**Part Number**	**Thread**
10	PNC-M107B	TWC-M107B	M12
10	PNC-M127B		M16
10	PNC-M167B		M20
13	PNC-M10B	TWC-M10B	M12
13	PNC-M120B		M16
15.8	PNC-M12B	TWC-M12B	M16
21.2	PNC-M16B	TWC-M16B	M20
21.2	PNC-M226B		M25
28.5	PNC-M22B	TWC-M22B	M25
34.5	PNC-M28B	TWC-M28B	M32
42.5	PNC-M36B	TWC-M36B	M40
54.5	PNC-M48B	TWC-M48B	M50

Technical Details - Conduit fittings

Material:	Polyamide 6
	Nitrile-Butadiene rubber (FEC only)
Temperature	-40°C to +105°C
Flammability	UL94-HB
Standards	ATEX Directive 94/9/CE
	DIN EN 61386-1 (VDE 0605-1)
	DIN EN 61386-22 (VDE 0605-22)

Simple assembly fittings

Align conduit and fitting



Push together until click is heard



Lift tab on fitting to release











	Straight Flange	90° Elbow Flange	End cap			Conduit clip
IP Rating	IP65/67	IP65/67	IP66			Not applicable
				Cable Ø (mm)		
Outside Ø (mm)	**Part Number**	**Part Number**	**Part Number**	**min**	**max**	**Part Number**
10			FEC-07B	2	7	NFH-07B
13			FEC-10B	3	10	NFH-10B
15.8		TWOC-12B	FEC-12B	4.2	12	NFH-12B
21.2		TWOC-16B	FEC-16B	6	16	NFH-16B
28.5		TWOC-22B	FEC-22B	6	22	NFH-22B
34.5		TWOC-28B	FEC-28B	6	28	NFH-28B
42.5		TWOC-36B	FEC-36B	6	36	NFH-36B
54.5		TWOC-48B	FEC-48B	6	48	NFH-48B
67.2	TNOC-56B	TWOC-56B				NFH-56B
82.5	TNOC-70B	TWOC-70B				NFH-70B
106	TNOC-95B	TWOC-95B				NFH-95B

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Conduits & Loom Tube

Non Metallic Flexible Conduit

Manufactured to comply with AS/NZS 2053.8:1995

Type NM conduit consists of a smooth bore PVC conduit with a smooth outer sheath. NM contains a spiral rigid PVC reinforcement which is embedded within the flexible PVC outer wall.

Type NM liquid tight conduit is widely used in the food industry, steel industry, sewage and water treatment plants, machine wiring and many other commercial and industrial applications.

- Temperature Rating -20° C to + 80°C
- UV resistant, self-extinguishing
- Oil and sunlight resistant
- Provides IP67 protection when used with appropriate liquidtight fittings and connectors
- Fittings: Non-metallic IP67 range NMCM fittings and metallic LC range of fittings
- Tensile Strength: 136 kg
- Compression Strength: 120 kg per 100mm
- Type NM flexible non-metallic conduit is available in Black (B) and Grey (G)
- RoHS and WEEE compliant
- UL listed

Black Part Number	Nominal Size	Internal Ø (mm)	External Ø (mm)	Bending Radius (mm)	Coil Length
NM16B	16	12.5	18	38	30Mtrs
NM20B	20	16	21	50	30Mtrs
NM25B	25	21	26.5	64	30Mtrs
NM32B	32	26.5	33	75	30Mtrs
NM40B	40	35	42	89	15Mtrs
NM50B	50	40.5	48	114	15Mtrs





Liquid Tight Flexible Conduit

Manufactured to comply with AS/NZS 2053.8:1995

Type LT flexible metallic liquid tight conduit is manufactured with a smooth PVC outer sheath extruded over a spiral-wound, hot-dipped galvanised inner core and contains a cord packing. Sizes range from 16mm through to 100mm. Larger sizes are fully interlocked.

Manufactured to UL360 dimensions.
Manufactured to comply with AS/NZS 2053.8:1995 (Sizes 16mm through 100mm. HD classified)

Type LT metallic flexible conduit is widely used in the wiring and connection of industrial process equipment including annealing ovens, water treatment plants, foundries, refrigeration, etc. and other industrial environments where mechanical protection of wiring is required or where vibration and movement must be absorbed.

- Temperature Rating -20° C to + 80°C
- The smooth outer flexible PVC sheathing has a wide temperature range
- Resistant to Oils, Mild Acids and Many Industrial Chemicals
- Sunlight (UV) Resistant
- Self-extinguishing / Flame Retarded
- Provides IP66, IP67 or IP68 protection when used with appropriate liquidtight fittings and connectors
- RoHS and WEEE Compliant
- Uses standard LC liquidtight compression fittings IP 66/67/68
- Type LT flexible metallic conduit is available in Black (B) and Grey (G)

Black Part Number	Nominal Size	Internal Ø (mm)	External Ø (mm)	Bending Radius (mm)	Coil Length
LT016B	16	12.5	18	38	30Mtrs
LT020B	20	16	21	50	30Mtrs
LT025B	25	21	26.5	64	30Mtrs
LT032B	32	26.5	33	75	30Mtrs
LT040B	40	35	42	89	15Mtrs
LT050B	50	40.5	48	114	15Mtrs
LT063B	63	51.5	60	140	15Mtrs





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Conduits & Loom Tube

Liquid Tight and Non Metallic Conduit Fittings







Nominal Size	Straight	Elbow 90°	Elbow 45°	Lock Nut	Conduit Ferrules
16	LC16B	LC16/90B	LC16/45B	GM-M16	LT-0F
20	LC20B	LC20/90B	LC20/45B	GM-M20	LT-1F
25	LC25B	LC25/90B	LC25/45B	GM-M25	LT-2F
32	LC32B	LC32/90B	LC32/45B	GM-M32	LT-32F
40	LC40B	LC40/90B	LC40/45B	GM-M40	LT-40F
50	LC50B	LC50/90B	LC50/45B	GM-M50	LT-50F

Split Loom Tube

High Temperature Polypopylene

Australian manufactured corrugated polypropylene conduit, designed for cost-effective lightweight flexible protection in a wide range of automotive and industrial applications. Extremely tough and durable, using impact copolymer for high impact strength. Excellent resistance to automotive oils, fluids and solvents.



- Minimum Operating Temperature: -20°C
- Maximum Continuous Operating Temperature: 90°C
- Maximum Peak Operating Temperature: 120°C
- Flammability UL94 (flame retardant version): V2 Rating
- Flammability rating FMVSS302
- Weatherability: Moderate UV stability
- RoHS Compliant.

Small Rolls	Internal Ø (mm)	External Ø (mm)	Length (Mtr)
LT07	7	11	10
LT10	10	14	
LT13	13	17	
LT16	16	20	
LT20	20	25	
LT25	25	28	
LT30	30	34	
LT40	36	43	5
LT50	48	53	

Bulk Rolls	Internal Ø (mm)	External Ø (mm)	Length (Mtr)
LT07RHT	7	11	400
LT10RHT	10	14	250
LT13RHT	13	17	150
LT16RHT	16	20	100
LT20RHT	20	25	
LT25RHT	25	28	50
LT30RHT	30	34	
LT40RHT	36	43	25
LT50RHT	48	53	

PVC Tubing



Clear Part Number	Black Part Number	Internal Ø (mm)	Wall Thickness (mm)	Roll Length (Mtr)
PVC3CL	PVC3BLK	3	0.5	50
PVC4CL	PVC4BLK	4	0.5	50
PVC6CL	PVC6BLK	6	0.5	25
PVC10CL	PVC10BLK	10	0.65	25

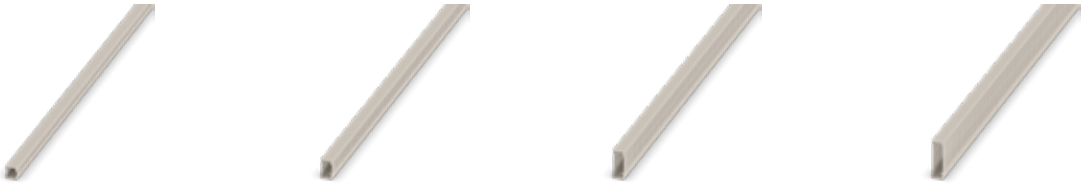
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Cable Duct

RAL7030 Stone Grey, UL94V0 PVC

Use cable ducts to bring order to your control cabinet. A large number of cables and conductors are required to connect the various components in the control cabinet. To ensure that the installers still have a good overview and can easily reach each terminal point, cable ducts help to ensure that the control cabinet is structured clearly and neatly.

Predetermined breaking point enables tool-free, burr-free removal of bars. The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place. Also available in Halogen Free versions.



	Colour	Height 25mm	Pack	Height 40mm	Pack	Height 60mm	Pack	Height 80mm	Pack
Width 25mm	Grey	1566323	36	1566326	24	1566328	16	1566329	20
	Blue					1566443		1566444	
	White					1566515		1566516	



	Colour	Height 40mm	Pack	Height 60mm	Pack	Height 80mm	Pack	Height 100mm	Pack
Width 40mm	Grey	1566314	20	1566315	16	1566316	16	1566313	10
	Blue			1566451		1566452		1566449	
	White			1566524		1566525		1566522	



	Colour	Height 40mm	Pack	Height 60mm	Pack	Height 80mm	Pack	Height 100mm	Pack
Width 60mm	Grey	1566308	12	1566309	12	1566310	12	1566306	10
	Blue			1566455		1566456		1566453	
	White			1566528		1566529		1566526	



	Colour	Height 60mm	Pack	Height 80mm	Pack	Height 100mm	Pack
Width 80mm	Grey	1566304	12	1566305	8	1566301	8
	Blue			1566463		1566457	
	White			1566534		1566530	

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Tapes

Double Sided Tape



Double Sided Cloth Carpet Tape

A cloth carrier with a very aggressive soft rubber-based adhesive. Japanese style for rough / textured surfaces. 0.41mm thick, beige coloured, 25 mtr rolls.

Width	12mm	18mm	24mm	48mm
Part Number	DST4934/12	DST4934/18	DST4934/24	DST4934/48



Double Sided Clear Polyester Tape

A transparent 0.21 mm polyester film carrier with a high tack, very good cohesive strength, highly cross-linked solvent acrylic adhesive. It gives very good initial adhesion and ultimate bond. The adhesive has very good, U.V. and all-weather performance and is plasticiser resistant. 0.21mm thick, clear film, 50 mtr rolls.

Width	12mm	18mm
Part Number	DST4965/12	DST4965/18



Double Sided Filmic Mounting Tape

A white 38-micron hard PVC film carrier with a high tack high shear, highly cross-linked solvent acrylic adhesive. This adhesive gives excellent initial tack and because of its high coat weight of adhesive it is ideal for rough, uneven & textured surfaces. The adhesive has very good temperature, U.V. & plasticiser resistance, and has excellent peel adhesion performance even on low energy surfaces. 0.26mm thick, white coloured

Width	12mm (50 mtr roll)	18mm (33 mtr roll)
Part Number	DST4970/12	DST4970/18



Double Sided Polyethylene Foam Tape, Acrylic Adhesive

Polyethylene foam coated with pressure sensitive acrylic adhesive on both sides. Yellow Silicon paper liner. Adhering of most plastics, metal, paper - emblems etc. Multipurpose, Economy Grade. 1.0mm thick, white foam, 50 mtr rolls

Width	12mm	18mm
Part Number	DST4952/12	DST4952/18

Masking Tape



General purpose masking tape suitable for a wide variety of everyday applications around the home, office/warehouse & industrial markets. Clean removability from most surfaces (same day). High strength crepe provides excellent anti-tear attributes. High adhesive coat, ideal for sticking to irregular surfaces. Beige coloured, 50 mtr rolls

Width	12 mm	19 mm	25 mm	38 mm	50 mm
Part Number	MT4323/12	MT4323/19	MT4323/25	MT4323/38	MT4323/50

PVC Insulation Tape



For superior insulation of electrical cables. Self-adhesive tape for bundling cables and wires. Safe and easy to use highly flexible low temperature tape. Temperature range: -10°C to +80°C Rainbow pack contains; 3 x black, 2 x blue, 2 x red, 2 x white and 1 x yellow/green 20m rolls

Colour	Black	Red	White	Blue	Green/Yellow	Rainbow Pack
Part Number	1920BLK	1920R	1920W	1920B	1920GY	1920RBW

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Cable Marking

Cable Marking Sleeves

Wire/Cable Sleeves

The PATG collar is a captive marker carrier. The corresponding insert labels are used for marking. These conductor marking systems consist of marker carriers and insert labels and depending on the model, can be used to mark conductors with a diameter of 0.6 mm ... 50 mm.
Mounting type: slide-on, text field height: 4 mm, text field length:10-30 mm.





Conductor Diameter	10mm Length	12 mm Length	15 mm Length	18 mm Length	23 mm Length	30 mm Length
0.6-1.2 mm	1013795	0827076	1013740	0820507	0828046	
1.5-2.5 mm	1013805	0827077	1013025	0820510	1013847	0822440
2-4 mm	1013818	0827078	1013038	0820523	1013850	0822453
4-7 mm	1013821	0827079	1013041	0820536	1013863	0822466
6-10 mm		0827080	1013054	0820549	0808011	0822479
10-14 mm			1013067	0828059	0808024	0822482
14-22 mm			1013070	0828062	0808037	
22-30 mm			1013083		0808040	
30-35 mm			1013096		0808053	
35-45 mm			1013106			

Cable Marking Cards

Suitable Printers listed alongside Marker Cards

The UCT-WMT UniCard marking range includes markers for wire marking with marking sleeves from the PATG/PATO systems. The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the card printers.

The US-WMT UniSheet labelling range includes markers for conductor marking with marking collars from the PATG/PATO system. The markers, which are supplied as uniform cards, can be labelled quickly, easily, and cost-effectively using the THERMOMARK CARD.

The markers are easy to separate and can be easily fitted. Labelled insert strips are simply inserted into the collars. This protects the marking against dirt.

Part Number	Length (mm)	Description	Thermomark Card 2.0	Thermomark Prime 2.0	Bluemark ID	Bluemark ID Colour	Topmark Neo
801430	10	UCT-WMT (10X4)	✓	✓	✓	✓	✓
801438	12	UCT-WMT (12X4)	✓	✓	✓	✓	✓
801446	15	UCT-WMT (15X4)	✓	✓	✓	✓	✓
801462	18	UCT-WMT (18X4)	✓	✓	✓	✓	✓
801453	23	UCT-WMT (23X4)	✓	✓	✓	✓	✓
801422	30	UCT-WMT (30X4)	✓	✓	✓	✓	✓
828765	10	US-WMT (10X4)	✓	✓	✓	✓	
828766	12	US-WMT (12X4)	✓	✓	✓	✓	
828767	15	US-WMT (15X4)	✓	✓	✓	✓	
828768	18	US-WMT (18X4)	✓	✓	✓	✓	
828769	23	US-WMT (23X4)	✓	✓	✓	✓	
828770	30	US-WMT (30X4)	✓	✓	✓	✓	





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Cable Marking

Printers



	THERMOMARK CARD 2.0	THERMOMARK Prime 2.0	THERMOMARK Roll 2.0	THERMOMARK E.300D	THERMOMARK GO.K	THERMOMARK GO.K SET	THERMOMARK GO	THERMOMARK GO SET
Part Number	1085267	1472413	1085260	1287038	1184146	1184148	1090747	1221548
Size	Desktop	Desktop/Portable	Desktop	Large/Desktop	Handheld		Portable	
Volume	Manual Feed		> 50,000 Labels/yr.		Low			
Material	Card and Sheet		Roll		Cartridge			

Printer Ribbon



Printer	Print Materials	Width (mm)	Length	Description	Part Number
Thermomark Roll 2.0 Thermomark E Series	TML..., WML..., WML HF..., WML-FLAG..., EML..., EML-ESD..., EML-RM..., EML-HA..., EMLS..., EMLC..., EMLP... and PMM...	110	300mm	THERMOMARK-RIBBON 110	5145384
	WMS... and WMS-2 HF...	64	300mm	THERMOMARK-RIBBON 64-WMSU	801360
	WMS... and WMS-2 HF...	110	300mm	THERMOMARK-RIBBON 110-WMSU	801358
	WMTB HF..., WMS-2 HF..., TMT..., EMT..., EMLF..., PML-...	110	300mm	THERMOMARK-RIBBON 110-WMTB HF	5148007
	EML-HT…	110	300mm	THERMOMARK-RIBBON 110-EML-HT	800342
Thermomark Card 2.0	UCT..., US..., and UM...	110	300mm	THERMOMARK-RIBBON 110-TC	801371
Thermomark Prime 2.0	UCT..., US..., and UM...	110	70mm	TMP-RIBBON 110 BK 100	803374
	US(2)-TM(F)..., US-TM(F)L..., US-WMTB...,US-EML..., US-EML(S)P...,US-EMLP-HA..., US-EM(S)P..., US-EML-RS...	110	60mm	TMP-RIBBON 110 BK 101	803714
Thermomark GO Thermomark GO.K	Shrink Sleeve, White, Black Printing, 3:1 ratio	ø1-3.2	1.8m	MM-WMS 3,2 (EX5)R C1 WH/BK	803923
		ø1.6-4.8		MM-WMS 4,8 (EX9)R C1 WH/BK	803924
		ø2.1-6.4		MM-WMS 6,4 (EX10)R C1 WH/BK	803925
		ø3.2-9.5		MM-WMS 9,5 (EX16)R C1 WH/BK	803926
	Fabric Label, White, Black Printing, Adhesive	10	6m	MM-EMLC (EX10)R C1 WH/BK	803933
		18		MM-EMLC (EX18)R C1 WH/BK	803936
	Label, White, Black Printing, Adhesive	10	8m	MM-EML (EX10)R C1 WH/BK	803970
		12		MM-EML (EX12)R C1 WH/BK	803971
		18		MM-EML (EX18)R C1 WH/BK	803972
		24		MM-EML (EX24)R C1 WH/BK	803973
	Label, White, Black Printing, Highly Flexible, Adhesive	10	8m	MM-EMLF (EX10)R C1 WH/BK	803937
		12		MM-EMLF (EX12)R C1 WH/BK	803938
		18		MM-EMLF (EX18)R C1 WH/BK	803939
		24		MM-EMLF (EX24)R C1 WH/BK	803940
	Label, Yellow, Black Printing, Highly Flexible, Adhesive	10	8m	MM-EMLF (EX10)R C1 YE/BK	803941
		12		MM-EMLF (EX12)R C1 YE/BK	803942
		18		MM-EMLF (EX18)R C1 YE/BK	803943
		24		MM-EMLF (EX24)R C1 YE/BK	803944

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Hand Tools

Toolfox

Professional tools are a prerequisite for excellent results in electrical installation and are probably the most important companion for day-to-day work. Our products are all about precision, durability, and effectiveness. TOOL fox allows you to have the right tool for the right job, with a complete portfolio of hand tools and automatic devices for electrical installation work, featuring comfortable handling, delivering high quality and improving efficiency.

- Durable with high-quality components and materials
- Easy and user-friendly handling with the ergonomic handle designs
- Everything from a single source with the comprehensive product range







	CRIMPFOX DUO 10 Crimping pliers	CRIMPFOX 4 IN 1 Multifunctional tool	CRIMPFOX-RCI 6 Crimping pliers
Part Number	1031721	1200101	1212057
Description	Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/ specifications: DIN 46228-1, DIN 46228-4, UL 486F, form A, E, F, min. cross section: 0.14 mm², max. cross section: 10 mm², for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, rotating die, lateral and frontal insertion, compression: Trapezoidal crimp, weight 305 g, black/green	Tool for processing ferrules according to DIN 46228-4, 0.5 mm² to 2.5 mm², equipped with pressure lock, magazine, cutting, stripping, twisting, and crimping unit.	Crimping pliers, for insulated cable lugs, 0.5 mm² ... 6.0 mm² (red, blue, yellow), oval crimp, symmetrical







	CRIMPFOX-M SET Crimping pliers set	CRIMPFOX-RCI 6-M Crimping pliers	CRIMPFOX CENTRUS 10S Crimping pliers
Part Number	1212093	1212730	1213154
Description	Crimping pliers set, consisting of CRIMPFOX-M (pliers) and dies for insulated cable lugs 0.5 ... 2.5 mm² (1212074), non-insulated conduit lugs 0.5 ... 6 mm² (1212079) and ferrules 0.25 ... 10 mm² (1212080) and 16/25 mm² (1212081).	Crimping pliers, compact pliers, for symmetrical insulated cable lugs, 0.5 mm² ... 6.0 mm² (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry	Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm² ... 10 mm², also for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, lateral insertion, equipped with fall protection

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Hand Tools
Toolfox



	CUTFOX-ES Cutting tool
Part Number	1139721
Description	Electrician's scissors, high cutting performance thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint



	MICROFOX-SP-1 Diagonal cutter
Part Number	1212487
Description	Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version



	MICROFOX-SB Diagonal cutter
Part Number	1212489
Description	Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter



	CUTFOX-SP VDE Diagonal cutter
Part Number	1212206
Description	Power diagonal cutter, with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested



	CUTFOX-S VDE Diagonal cutter
Part Number	1212207
Description	Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested



	CUTFOX-CD Cable duct cutter
Part Number	1212474
Description	Cable duct cutter, for cutting plastic cable ducts, covers, and profiles, 45° limit stop also for bevel cuts, 75 mm cutting length



	CUTFOX 16 VDE Cable-cutting tool
Part Number	1212126
Description	Cable cutter, precision blade with macro-notching, for copper and aluminum up to 50 mm², VDE 1000 V AC/1500 V DC tested



	CUTFOX 12 Cable-cutting tool
Part Number	1212128
Description	Cable cutter, for copper and aluminum up to 12 mm diameter (up to 35 mm²)



	CUTFOX 18 Cable-cutting tool
Part Number	1212129
Description	Cable cutter, angled, for copper and aluminum up to 18 mm diameter (up to 50 mm²)

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Hand Tools
Toolfox



	WIREFOX 10 Stripping tool
Part Number	1212150
Description	Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade



	WIREFOX-E 10 Stripping tool
Part Number	1212706
Description	Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade



	UNIFOX-MP 6-1 VDE Multifunctional tool
Part Number	1662200
Description	Multifunctional pliers, 6 functions in one tool, with stripping and crimping area and cable cutter



	UNIFOX-C VDE Combination pliers
Part Number	1212202
Description	Combination pliers, notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 180 mm



	UNIFOX-P VDE Needle-nose pliers
Part Number	1212204
Description	Needle-nose pliers with blade, notched grip area, VDE 1000 V AC/1500 V DC tested



	UNIFOX-WRENCH Screw pliers
Part Number	1212835
Description	Screw pliers, with fast adjustment, for wrench size 10 mm ... 36 mm, size: 260 mm



	USS 4 Control cabinet key
Part Number	1203149
Description	Control cabinet key, metal, for all common types of control cabinet



	SF-LHEX SET Tool set
Part Number	1212544
Description	Offset screwdriver set, hex, metric, SW 1.5; 2; 2.5; 3; 4; 5; 6; 8, and 10 mm, with ball head, matt chrome-plated, 9-part, in practical holder



	5M Measuring Tape
Part Number	1200298
Description	Tape measure, 5 m

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Hand Tools

Toolfox







	SF-SL/PH/PZ-SL SET S-VDE Tool set	SF-SL/PZ SET VDE Tool set	SF-ASD 16 SET
Part Number	1212701	1212540	1200295
Description	Screwdriver set, protective insulation integrated in the shaft, bladed/crosshead Phillips/ combined profile, Pozidriv® + bladed (plus/ minus), VDE-insulated, 7-part, incl. rack	Screwdriver set, bladed/crosshead Pozidriv®, VDE insulated, 6-part, incl. rack	Cordless screwdriver in case, incl. battery, charging device 100 ... 240 V, 2 bits, two-speed gearbox, forward/reverse running and 16-stage clutch up to 450 rpm, hexagonal fast connection.

Automatic Cable Cutting

The CUTFOX 10 automatic cutting device can be used to cut conductors and cables up to 10 mm² and 8 mm in diameter to length with millimeter precision. The CUTFOX 10 automatically adapts to the diameter when there is a change in material. Enter the length and number of cuts via the user-friendly display. The automatic cutting device can be optimally integrated into the clipx WIRE assist worker assistance system and automatically controlled with the software.



- The cutting machine cuts conductors, cables, and similar profiles
- No adjustments are required thanks to the automatic zero cut, which is performed when the start button is pressed
- To insert the conductors simply open the front cover
- The desired length and number is entered via the user-friendly display
- The drive and guide rolls automatically adjust to each inserted diameter

	CUTFOX 10 Cable-cutting tool
Part Number	1206829
Description	Automatic cutting device for cables, litz wires, and shrink sleeves, for 100 ... 240 V mains voltage

Automatic Strip and Crimp

Two functions in one device: process wires quickly and reliably in just one step with our automatic stripping and crimping devices. Devices are available for processing single ferrules as well as ferrules supplied as a taped product. With their modular design, the stripping and crimping machines can be quickly converted to different cross-sections.



- Tool-free conversion
- Color-coded conversion kits
- Integrated counter that can be reset
- Processing of taped ferrules

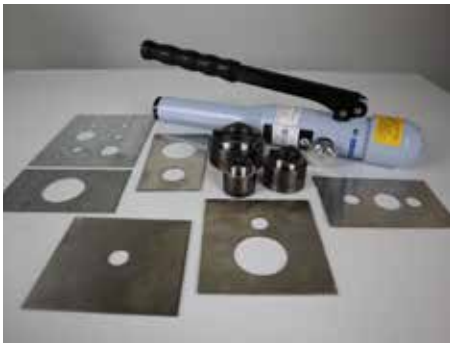
	CF 3000-2,5 Crimping tool, electric
Part Number	1205477
Description	Automatic stripping and crimping device, 230 V version, for taped insulated ferrules 0.25 mm² ... 2.5 mm², sleeve length 8 mm, incl. 0.5 mm² ... 2.5 mm² conversion kits

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Hydraulic Punch

Powerman Junior

The HP-1 Power Man Junior is manufactured in Japan by Kamekura Seiki Co. Ltd who are the manufacturers of precision hydraulic hole punching equipment. Our popular model HP-1 Power Man Junior fully hydraulic hole puncher is a precision manufactured tool to give a life time of reliable service to any tradesman requiring to penetrate holes in sheet metal, stainless steel, copper, brass and aluminium.



The HP1 Power Man Junior boasts the following features:

- Portable and powerful, easy to operate with little effort.
- Professional finish on job with no damage to finished painted products.
- Simplified structure with integrated pump and cylinder.
- Special sizes available for rectangular size holes to meet your specifications subject to punching capacity.
- Complete with an over pressure relief valve to prevent over pressure to the hydraulic system.



HP-2 Flex Power Man Junior fully hydraulic hole puncher is a unique tool as it integrates hole punching and notching into one unit. The HP2 allows hole punching for cutting round, square & deformed holes including specialised tooling for the electronic industry. The rotating head provides the operator flexibility for use in confined situations.

The HP2 boasts the following features:

- Portable and powerful, easy to operate with little effort.
- Professional finish on job with no damage to finished painted products.
- Rotating swivel head allows the operator more flexibility to punch and notch holes in confined situations.
- Notching tooling allows unlimited variety of different shaped holes.
- Puncher stand accessory offers stability for accurate operation to the work piece.











Part Number	HP1/K1	HP1/K2	HP1/K3	HP2/K2	HP1
Contains:	HP1 Power Man Junior Hydraulic Punch	HP1 Power Man Junior Hydraulic Punch	HP1 Power Man Junior Hydraulic Punch	HP2 Power Man Junior Flexible Head Hydraulic Punch	HP1 Power Man Junior Hydraulic Punch
	5 Round Punch & Dies 11mm, 16mm,20mm, 25mm & 32mm	7 Round Punch & Dies 16mm, 20mm, 22.5mm, 25mm, 32mm, 40mm & 50mm	4 Round Punch & Dies 20mm, 22.5mm, 25mm & 30mm	7 Round Punch & Dies 16mm, 20mm, 22.5mm, 25mm, 32mm, 40mm & 50mm	
	3 Piston Shafts M6, M10 & M14 1 Carry Case	2 Piston Shafts M10 & M14 1 Carry Case	1 Piston Shafts M10 1 Carry Case	2 Piston Shafts M10 & M14 1 Carry Case	1 Carry Case

Square Punch & Die Sets

Supplied with Piston shaft

Size (mm)	Part Number
20 x 20	PD20x20mm
25 x 25	PD25x25mm
30 x 30	PD30x30mm
35 x 35	PD35x35mm

Size (mm)	Part Number
40 x 40	PD40x40mm
45 x 45	PD45x45mm
50 x 50	PD50x50mm



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Round Punch & Die Sets

Piston shaft and dies supplied separately

Piston Shaft Part Number	Suits Round Punch & Die Set	Max. thickness Mild Steel	Max. thickness Stainless Steel
M6	10 to 13mm	1.6mm	1.0mm
M10	14 to 30mm	2.3mm	1.6mm
M14	31 to 60mm	2.3mm	1.6mm
	61 to 80mm	1.6mm	1.2mm



Size (mm)	Die Part Number	Size (mm)	Die Part Number	Size (mm)	Die Part Number	Size (mm)	Die Part Number
10	PD10	27	PD27	45	PD45	63	PD63
11	PD11	28	PD28	46	PD46	64	PD64
12	PD12	29	PD29	47	PD47	65	PD65
13	PD13	30	PD30	48	PD48	66	PD66
14	PD14	31	PD31	49	PD49	67	PD67
15	PD15	32	PD32	50	PD50	68	PD68
16	PD16	33	PD33	51	PD51	69	PD69
17	PD17	34	PD34	52	PD52	70	PD70
18	PD18	35	PD35	53	PD53	71	PD71
19	PD19	36	PD36	54	PD54	72	PD72
20	PD20	37	PD37	55	PD55	73	PD73
21	PD21	38	PD38	56	PD56	74	PD74
22	PD22	39	PD39	57	PD57	75	PD75
22.5	PD22.5	40	PD40	58	PD58	76	PD76
23	PD23	41	PD41	59	PD59	77	PD77
24	PD24	42	PD42	60	PD60	78	PD78
25	PD25	43	PD43	61	PD61	79	PD79
26	PD26	44	PD44	62	PD62	80	PD80

Din Rail Cutter

TS35 x 7.5mm Din Rail



Din Rail Cutter
LKDC-002

Cable Duct Cutter

90° Flat cut width: 20 mm ~ 120 mm
45° Mitre cut width: 20 mm ~ 70 mm



Duct Cutter
LKWC-001

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SWITCHES PLUS COMPONENTS

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