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CONTA-CLIP: thinking ahead for connection systems

CONTA-CLIP was founded in 1978. We operate globally as an owner-operated medium-sized company.

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

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

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

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

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

The profits then flow into the development of new products as well as into modern, efficient manufacturing processes. A high quality standard throughout all departments is our number one priority.

Our top-class products are supported by this interplay between top-class men and machinery. We have also designed our range of services to align with customer needs.

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

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

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

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

Advantage online: the CONTA-CLIP Online Catalogue

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

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

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

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

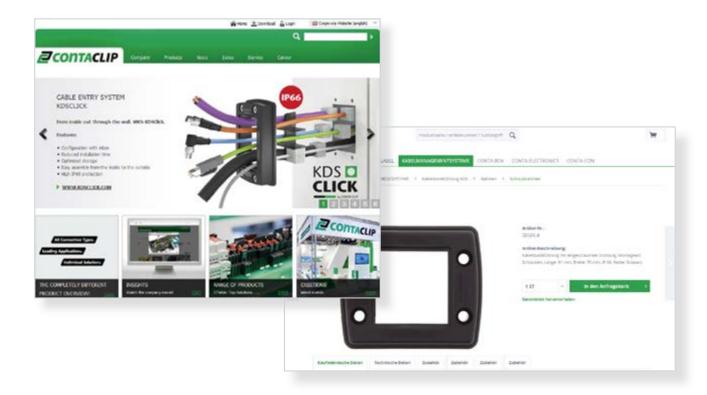
Application films: Complex functions be explained easily and clearly with sounds and images.

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

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

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

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



Globally available for you

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





Our locations in Africa

Algeria Morocco South Africa

Our locations in Asia

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

United Arab Emirates

Our locations in Australia

Australia New Zealand

Our locations in Europe Austria

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

Netherlands

Poland Portugal Romania Russia Serbia Slovakia Slovenia Spain Sweden

Norway

Our locations in North America

Canada Mexico United States

Switzerland

Ukraine

Our locations in South America

Bolivia Brazil Chile Ecuador

A complete line of products for your challenges The CONTA-CLIP Catalogues



CONTA-CONNECT

Terminal blocks with Push-in connection system

Our wide range of innovative PRK and FRK terminal series with the Push-in connection system include feed-through terminals, PE terminals, disconnect terminals, fused terminals, multi-level terminals, installation terminals and initiator terminals, for conductor cross-sections from 0.2 mm² to 25 mm².



Cat. no. 98070.2



CONTA-CONNECT

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



Cat. no. 98071.2



CONTA-CONNECT

Terminal blocks with tension-spring connection system

Our versatile line of terminals with tension spring connection systems for conductor cross-sections from 0.2 mm² to 16 mm² includes: the ZRK/ZSL series of feed-through and PE terminals, the double-level ZRKD/ZSLD, the ZIKD three-level terminal blocks, motor-connection terminals, (blade-) disconnect terminals, fused terminals, direct-mount terminals, and initiator/actuator terminals for transmitting positioning, encoder and alert signals.



Cat. no. 98072.2



CONTA-CONNECT

Installation materials and other accessories for terminal blocks

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



Cat. no. 98073.2



CONTA-LABEL

Marking components for thermal transfer marking systems

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



Cat. no. 98074.2

Our catalogues are available in many languages!





CONTA-LABEL

Marking components for ink-based marking systems

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



Cat. no. 98075.2



CONTA-BOX

Housings

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



Cat. no. 98076.2



CABLE MANAGEMENT SYSTEMS

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



Cat. no. 98077.2



CONTA-ELECTRONICS

Electrical and electronic cabinet components

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



Cat. no. 98078.2



CONTA-CON

PCB terminals and connectors

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



Cat. no. 98079.2

Cable management systems

KDS cable entries

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

KES cable entries

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

SAB|SSAB|SABK shielding solutions

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





KDS-FB
Cable entry system for flat cables

The KDS-FB cable entry system for flat cables provides you with outstanding versatility and saves you time while managing cables, especially for industrial trucks, crane systems and elevator applications.

Page 10



KDSClick Modular cable entry system

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

Page 20



KDS-FP Flange plates

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

Page 26



KDS-KV Separable cable glands

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

Page 34



KES
Cable entries

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

Page 44



SAB
Shielding solutions

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

Page 56

KDS-FB Cable entry system for flat cables

Fast. Safe. Turning cables inside out! The KDS-FB cable entry system for flat cables provides you with outstanding versatility and saves you time while managing cables, especially for industrial trucks, 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.

Supported by:



on the basis of a decision by the German Bundestag

Attaching the frame

Made from a single mould, the onepiece frame is quick and easy to assemble. It is made of sturdy, glass-fibre reinforced plastic.

Quickly assembled from the inside out

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

Captive seal

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

Seals

The seals' conical shape enables them to be easily pressed in so they can seal gaps. To attach them, the seals are pressed from the inside out into the openings. There are currently over 90 different seals that can be used for sealing cables of various diameters and sizes.





Your advantages

30% less time required for new installations because of the one-piece frame. Modifications, retrofits, service work or the readjustment of cable lengths can be made at any time without disassembling the frame, since the seals are released from the outside inwards by simply pressing in.



KDS-FB Cable entry system for flat cables

Frame		KDS-SR-FB1/A		KDS-SR-FB2/A		KDS-SR-FB2/B	
0				0		° 🔲 °	
Diagram		Page 14		Page 14		Page 14	
Type / colour		KDS-SR-FB1/A BK		KDS-SR-FB2/A BK		KDS-SR-FB2/B BK	
Cat. no.	Qty.	28700.4	10	28701.4	10	28702.4	10
Seals (refer to page 16)	Qty.	20700.1		20/01.1		20702.1	
KDS-DE 20 x 20						1 x	
KDS-DE-FB1		1 x				1x	
KDS-DE-FB2				1 x			
KDS-DE-FB3							
KDS-DE-FB4							
Accessories							
Actuating tool (refer to page 40)		KDS BW 1		KDS BW 1		KDS BW 1	
Cat. no.	Qty.	28622.0	1	28622.0	1	28622.0	1
Sheet-metal punch (refer to page 54)		BL-VA KDS-FB1		BL-VA KDS-FB2		BL-VA KDS-FB2	
Cat. no.	Qty.	28729.0	1	28730.0	1	28730.0	1
Frame		KDS-SR-FB4/A		KDS-SR-FB4/B		KDS-SR-FB4/C	
	0804						
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Secretary 4	23		165		10		15
-							
Diagram		Page 15		Page 15		Page 15	
•						_	
Type / colour	٥.	KDS-SR-FB4/A BK	4.0	KDS-SR-FB4/B BK	1.0	KDS-SR-FB4/C BK	10
Cat. no.	Qty.	28707.4	10	28708.4	10	28709.4	10
Seals (refer to page 16)				2		1	
KDS-DE 20 x 20 KDS-DE-FB1				2 x		1 x 2 x	
KDS-DE-FB1 KDS-DE-FB2				1 x		Z X	
KDS-DE-FB3				1 X			
KDS-DE-FB4		1 x					
Accessories		1 A					
Actuating tool (refer to page 40)		KDS BW 1		KDS BW 1		KDS BW 1	
Cat. no.	Qty.	28622.0	1		1	28622.0	1
Sheet-metal punch (refer to page 54)	Qty.						
The parties (co.c. to page 5)		BL-VA KDS-FB4		BL-VA KDS-FB4		BL-VA KDS-FB4	
Cat. no.	Qty.	BL-VA KDS-FB4 28732.0	1	BL-VA KDS-FB4 28732.0	1	BL-VA KDS-FB4 28732.0	1

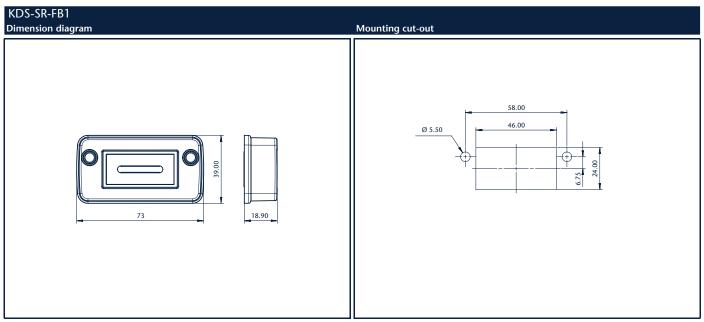


Features

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

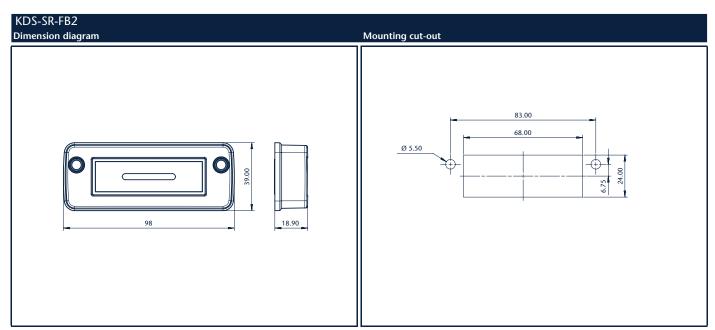


KDS-FB: dimensional drawings / mounting cut-outs



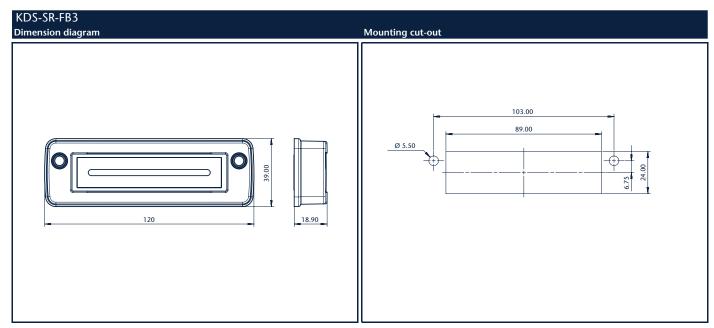
Torque for the frame's mounting screw: 3 Nm

Screw for usage: ISO 4762 / DIN 912



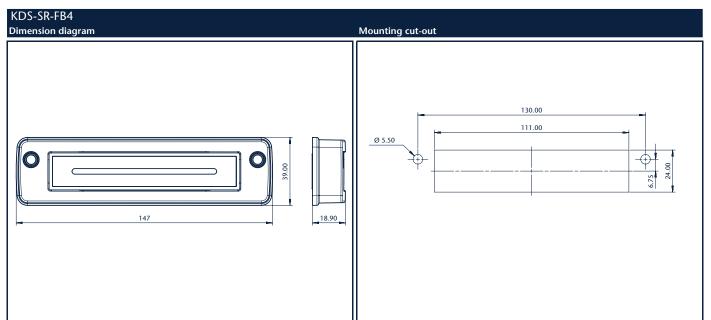
Torque for the frame's mounting screw: 3 Nm

Screw for usage: ISO 4762 / DIN 912



Torque for the frame's mounting screw: 3 Nm

Screw for usage: ISO 4762 / DIN 912



Torque for the frame's mounting screw: 3 \mbox{Nm}

Screw for usage: ISO 4762 / DIN 912

Seals for KDS-FB

Seals	KDS-DE- FB1/A	KDS-DE- FB1/B	KDS-DE- FB1/C	KDS-DE- FB1/D	KDS-DE- FB1/E	KDS-DE- FB1/F	KDS-DE- FB2/A
0		R		63	0	1	
Type / colour	KDS-DE-FB1/A GR	KDS-DE-FB1/B GR	KDS-DE-FB1/C GR	KDS-DE-FB1/D GR	KDS-DE-FB1/E GR	KDS-DE-FB1/F GR	KDS-DE-FB2/A GR
Cat. no. Qty. Sealing area	28713.6 5	28714.6 5 Width: 19 23 mm Thickness: 5.5 6 mm	28715.6 5 Width: 28 33 mm Thickness: 5.5 6 mm	28716.6 5 Width: 24 30 mm Thickness: 8.5 9 mm	28717.6 5 Width: 19 24 mm Thickness: 6.5 7 mm	28718.6 5 Width: 28 33 mm Thickness: 9 9.5 mm	28719.6 5
Seals	KDS-DE- FB2/B	KDS-DE- FB2/C	KDS-DE- FB2/D	KDS-DE- FB2/E	KDS-DE- FB2/F	KDS-DE- FB3/A	KDS-DE- FB3/B
Type / colour	KDS-DE-FB2/B GR	KDS-DE-FB2/C GR	KDS-DE-FB2/D GR	KDS-DE-FB2/E GR	KDS-DE-FB2/F GR	KDS-DE-FB3/A GR	KDS-DE-FB3/B GR
Cat. no. Qty. Sealing area	28720.6 5 Width: 32.5 38 mm Thickness: 5 5.5 mm	28721.6 5 Width: 45 50.5 mm Thickness: 6 6.5 mm	28722.6 5 Width: 47 52 mm Thickness: 9.5 10 mm	28723.6 5 Width: 38 43 mm Thickness: 12.5 13 mm	28724.6 5 Width: 49 54 mm Thickness: 5 6 mm	28725.6 5	28726.6 5 Width: 72 77 mm Thickness: 5 5.5 mm
Seals	KDS-DE- FB1/A	KDS-DE- FB4/B					
Type / colour	KDS-DE-FB4/A GR	KDS-DE-FB4/B GR					
Cat. no. Qty. Sealing area		28728.6 5 Width: 85 99 mm Thickness: 4.2 5.2 mm					



Features

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

Seals for all KDS systems







NEMA TYPE 12







Made in Germany





Features

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

IND-DE-FRIJA CR IND-DE-FRIJA C	Cab no	KDS-SR-FB1/A BK 28700.4	KDS-SR-FB2/A BK 28701.4	KDS-SR-FB2/B BK 28702.4	KDS-SR-FB3/A BK 28703.4	KDS-SR-FB3/B BK 28704.4	KDS-SR-FB3/C BK 28705.4
KIS-DE-FRAZE GR 2877-6 KIS-DE-FRAZE GR	Cat. no.						
KDS-DE-FBI/R GR 2871.6 KDS-DE-FBI/C GR 2872.6 KDS-DE-FBI/C GR 2872.7 KDS-DE				•		•	
XD5-DE-F81/B CR 7871-6 XD5-DE-F81/C CR 7871-6 XD5-DE-F81/C CR 7871-6 XD5-DE-F81/D CR 7871-6 XD5-DE-F81/F CR 7871-6 XD5-DE-F81/F CR 7871-6 XD5-DE-F81/F CR 7871-6 XD5-DE-F81/F CR 7871-6 XD5-DE-F81/B CR 7872-6 XD5-DE-F81/B CR	KDS-DE-FB1/A GR 28713.6	•		•			•
KDS-DE-FBI/D GR 28/16.6 KDS-DE-FBI/E GR 28/17.6 KDS-DE-FBI/E GR	KDS-DE-FB1/B GR 28714.6						
KDS-DE-FBI/D GR 28/16.6 KDS-DE-FBI/E GR 28/17.6 KDS-DE-FBI/E GR							
KDS-DE-FB1/F CR 28717.6 KDS-DE-FB1/F CR 28717.6 KDS-DE-FB2/A CR 28721.6 KDS-DE-FB2/C CR 28721.6 KDS-DE-FB2/C CR 28721.6 KDS-DE-FB2/C CR 28721.6 KDS-DE-FB2/C CR 28721.6 KDS-DE-FB2/F CR 28722.4 KDS-DE-FB3/A CR 28722.6 KDS-DE-FB3/A CR 28723.6		•		•			•
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KDS-DE-FB2/C GR 28721.6 KDS-DE-FB2/D GR 28722.4 KDS-DE-FB2/E GR 28723.6 KDS-DE-FB2/F GR 28724.6 KDS-DE-FB3/A GR 28725.6 KDS-DE-FB3/A GR 28725.6 KDS-DE-FB3/A GR 28727.6 KDS-DE-FB3/B GR 28727.6			•			•	
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KDS-DE-FB3/A GR 28723.6 KDS-DE-FB3/A GR 28726.6 KDS-DE-FB4/A GR 28727.6 KDS-DE-FB4/B GR			•			•	
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28723.6 KDS-DE-FB2/F GR 28724.6 KDS-DE-FB3/A GR 28725.6 KDS-DE-FB3/B GR 28726.6 KDS-DE-FB4/A GR 28727.6			•			•	
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28725.6 KDS-DE-FB3/B GR 28726.6 KDS-DE-FB4/A GR 28727.6 KDS-DE-FB4/B GR			•			•	
KDS-DE-FB3/B GR 28726.6 KDS-DE-FB4/A GR 28727.6 KDS-DE-FB4/B GR							
28726.6 KDS-DE-FB4/A GR 28727.6 KDS-DE-FB4/B GR					•		
28727.6 KDS-DE-FB4/B GR					•		
	KDS-DE-FB4/A GR 28727.6						

^{*} An overview of all seals with the external dimensions 20 x 20 can be found on page 17.

KDS-SR-FB3/D BK 28706.4	KDS-SR-FB4/A BK 28707.4	KDS-SR-FB4/B BK 28708.4	KDS-SR-FB4/C BK 28709.4	KDS-SR-FB4/D BK 28710.4	KDS-SR-FB4/E BK 28711.4	KDS-SR-FB4/F BK 28712.4
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KDSClick Modular cable entry system

Revolutionary cable entry systems

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



The basic components of the modular system

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

1. Frame

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



2. Inlays

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



3. Seals

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





Your advantages: More versatility and safety

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

KDSClick Modular cable entry system

An overview of your advantages

Supported by:



Attaching the frame

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

Quick inside-outwards assembly for easier servicing work

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

Captive seal

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

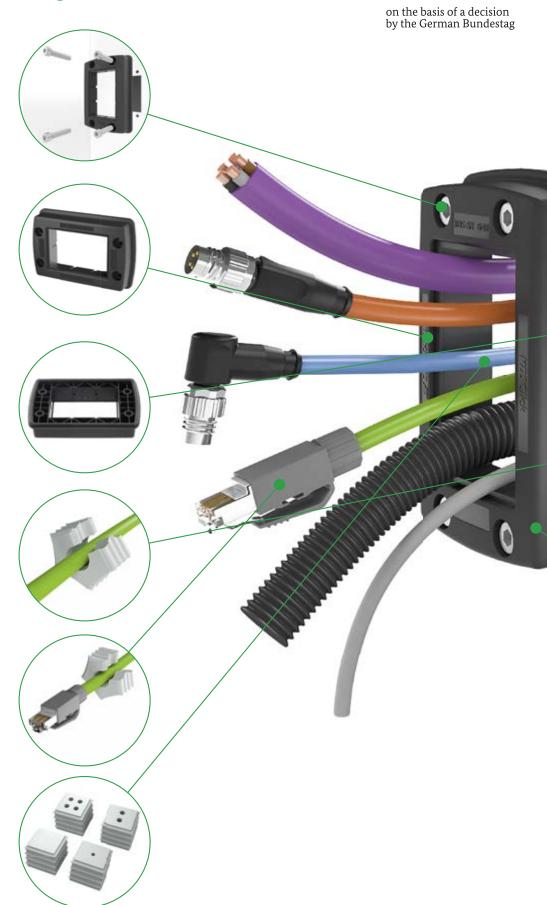
Smart separation of the seals
The wave-cut profile makes them
easy to install and ensures a perfect
fit around the cables.

No loss of guarantee: assembled cables

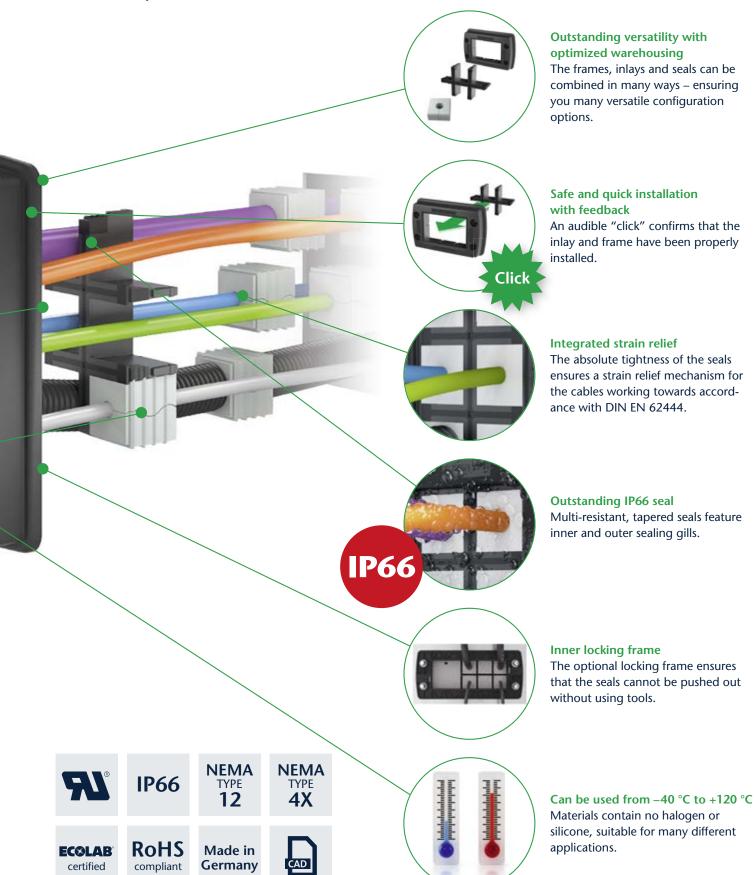
No need to disassemble and reconnect connectors, so manufacturer's warranty is not voided.

Versatile, high-density assemblies are possible

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







KDSClick Modular cable entry system

Frames and inlays		KDS-SR 1-4		KDS-SR 6/10		KDS-SR 8/16		KDS-SR 10/24	
))		
Diagram		Page 32		Page 32		Page 32		Page 32	
Type		KDS-SR 1-4 BK		KDS-SR 6/10 BK		KDS-SR 8/16 BK		KDS-SR 10/24 BK	
Cat. no.	Qty.	28506.4	1	28500.4	1	·	1	28504.4	1
Description	Qty.	Screw frame		Screw frame		Screw frame		Screw frame	
Type / Set		KDS-Set 1-4 BK		KDS-Set 6/10 BK		KDS-Set 8/16 BK		KDS-Set 10/24 BK	
Cat. no.	Qty.		1	28603.4	1	28604.4	1	28605.4	1
Description	Qty.	Set consists of:		Set consists of:		Set consists of:		Set consists of:	
Description		1 x KDS-SR 1-4 BK, 1 x KDS-Inlay 4 BK		1 x KDS-SR 6/10 BK, 1 x KDS-Inlay 2 BK, 1 x KDS-Inlay 6 BK		1 x KDS-SR 8/16 BK, 1 x KDS-Inlay 1 BK, 2 x KDS-Inlay 4 BK		1 x KDS-Inlay 2 BK, 1 x KDS-Inlay 4 BK, 1 x KDS-Inlay 6 BK	
Accessories									
Inlay		KDS-Inlay 4 BK		KDS-Inlay 2 BK		KDS-Inlay 1 BK		KDS-Inlay 2 BK	
Cat. no.	Qty.	28518.4	5	28517.4	5	28516.4	5	28517.4	5
Description	-	for 4-way splits		T-shape		For separating vertically	,	T-shape for large small	
Inlay		, i		KDS-Inlay 6 BK		KDS-Inlay 4 BK		KDS-Inlay 4 BK	
Cat. no.	Qty.			28519.4	5	28518.4	5	28518.4	5
Description	-			for 6-way splits		for 4-way splits		for 4-way splits	
Inlay						, i		KDS-Inlay 6 BK	
Cat. no.	Qty.							28519.4	5
Description								for 6-way splits	
Inner locking frame (otional)	op-	KDS-IVR 1-4 BK		KDS-IVR 6/10 BK		KDS-IVR 8/16 BK		KDS-IVR 10/24 BK	
Cat. no.	Qty.	28507.4	10	28501.4	10	28503.4	10	28505.4	10
Sheet-metal punch	. ,	BL KDS-SR 1-4		BL KDS-SR 6/10		BL KDS-SR 8/16		BL KDS-SR 10/24	
Cat. no.	Qty.	Page 54		Page 54		Page 54		Page 55	
Description		For sheet steel up to 2 ralso for marking drilling points		For sheet steel up to 2 also for marking drillin points		For sheet steel up to 2 ralso for marking drilling points		For sheet steel up to 2 r also for marking drilling points	
Actuating tool		KDS BW 1		KDS BW 1		KDS BW 1		KDS BW 1	
Cat. no.	Qty.	Page 40		Page 40		Page 40		Page 40	
Seals	2.57					, and the second		,	
small		KDS-DE		KDS-DE		KDS-DE		KDS-DE	
Cat. no.	Qty.	Page 42/43	10	Page 42/43	10	Page 42/43	10	Page 42/43	10
large	ζ.,	KDS-DEG		KDS-DEG		KDS-DEG		KDS-DEG	
Cat. no.	Qty.	Page 42/43	10	Page 42/43	10	Page 42/43	10	Page 42/43	10



IP66

NEMA TYPE 12







Made in Germany





Features

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

KDSClick Combination options

Combination options with KDS-SR 1-4





KDS-Inlay 4 BK 28518.4



Combination options with KDS-SR 6/10





KDS-Inlay 6 BK 28519.4





KDS-Inlay 2 BK 28517.4

Combination options with KDS-SR 8/16





KDS-Inlay 4 BK 28518.4



KDS-Inlay 1 BK 28516.4



KDS-Inlay 4 BK 28518.4





KDS-Inlay 4 BK 28518.4



KDS-Inlay 1 BK 28516.4





Combination options with KDS-SR 10/24





KDS-Inlay 4 BK 28518.4



KDS-Inlay 6 BK 28519.4









KDS-FP Flange plates

New versatility for managing cables

The new KDS-FP flange plate provides manufacturers of machines with a very cost-effective, convenient feed-through solution. It can be used to adapt housings and switchgear cabinets to fit your updated requirements at any time, and can also considerably simplify your warehousing. You no longer have to stock switchgear cabinets or distributors with different configurations of assembled cable and cable outlets. Instead, you can uniformly prepare your products with the flange plate and then adapt them at any time to your specific cabling or tubing requirements.

In the future, CONTA-CLIP will also offer the flange plates of the KDS-FP series in other shapes and sizes. Your advantage is that you save money by requiring fewer variants.





Your advantages

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

The basic components of the modular system

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

1. Flange plate

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



2. Inlays

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



3. Seals

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



KDS-FP Flange plate

An overview of your advantages

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

Captive seal

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

Variability

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

No loss of guarantee: assembled cables

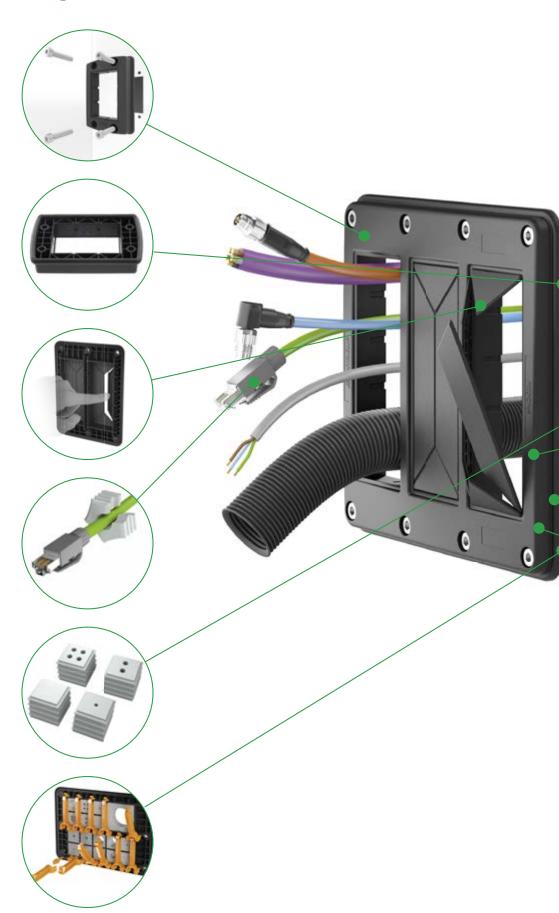
No need to disassemble and reconnect connectors, so manufacturer's warranty is not voided.

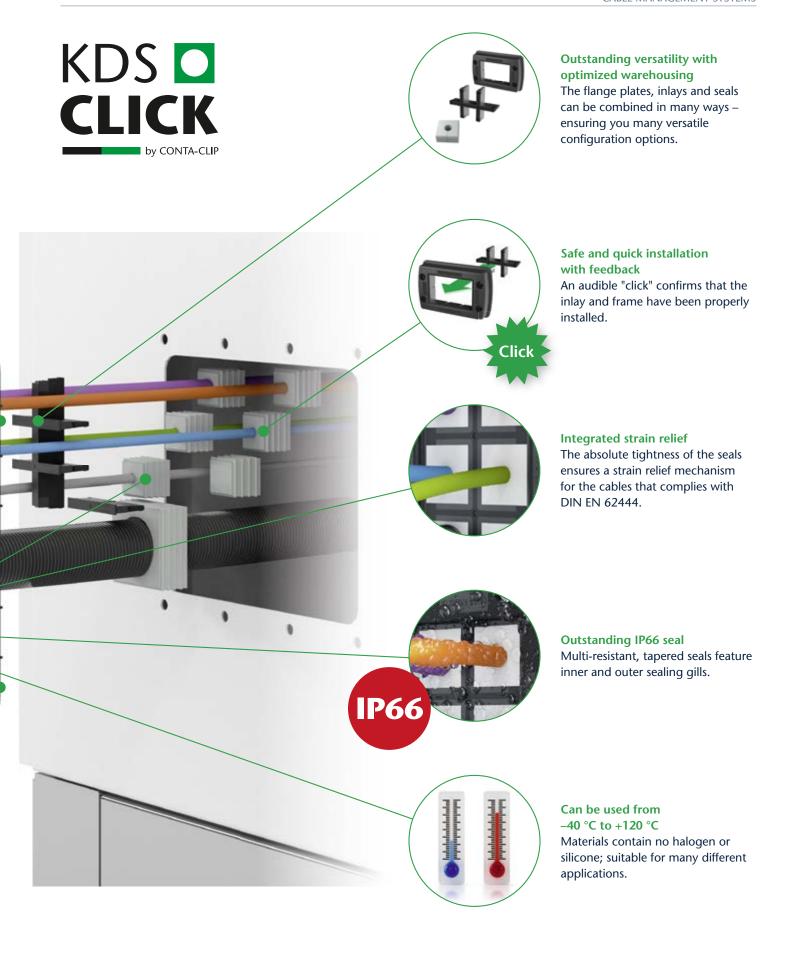
Versatile, high-density assemblies are possible

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

Accessories

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





KDS-FP Flange plate



Page 33

Diagram	
Type	
Cat. no.	Qty.
Description	
Accessories	
Inlay	
Cat. no.	Qty.
Description	
Inlay	
Cat. no.	Qty.
Description	
Inlay	
Cat. no.	Qty.
Description	
Inlay	
Cat. no.	Qty.
Description	
Inner lock	
Cat. no.	Qty.
Actuating tool	
Cat. no.	Qty.

Page 33	
KDS-FP 2x10/24 BK	
28660.4	1
lange plate	
KDS-Inlay 1 BK	
28516.4	5
or separating vertically	
KDS-Inlay 2 BK	
28517.4	5
T-shape for large small	
KDS-Inlay 4 BK	
28518.4	5
or 4-way splits	
KDS-Inlay 6 BK	
28519.4	5
or 6-way splits	
KDS-FP-IVR OG	
28664.3	20
KDS BW 1	
Page 40	





Diagram	
Type	
Cat. no.	Qty.
Description	
Accessories	
Inlay	
Cat. no.	Qty.
Description	
Inlay	
Cat. no.	Qty.
Description	
Inlay	
Cat. no.	Qty.
Description	
Inlay	
Cat. no.	Qty.
Description	
Inner lock	
Cat. no.	Qty.
Actuating tool	
Cat. no.	Qty.

Page 33	
KDS-FP 3x10/24 BK	
28661.4	1
Flange plate	
KDS-Inlay 1 BK	
28516.4	5
For separating vertically	
KDS-Inlay 2 BK	
28517.4	5
T-shape for large small	
KDS-Inlay 4 BK	
28518.4	5
for 4-way splits	
KDS-Inlay 6 BK	
28519.4	5
for 6-way splits	
KDS-FP-IVR OG	
28664.3	20
KDS BW 1	
Page 40	

KDS-FP Combination options

Combination option 1





KDS-Inlay 4 BK 28518.4



KDS-Inlay 1 BK 28516.4



KDS-Inlay 6 BK 28519.4

Combination option 2









KDS-Inlay 6 BK 28519.4

Combination option 3





KDS-Inlay 1 BK 28516.4



KDS-Inlay 2 BK 28517.4

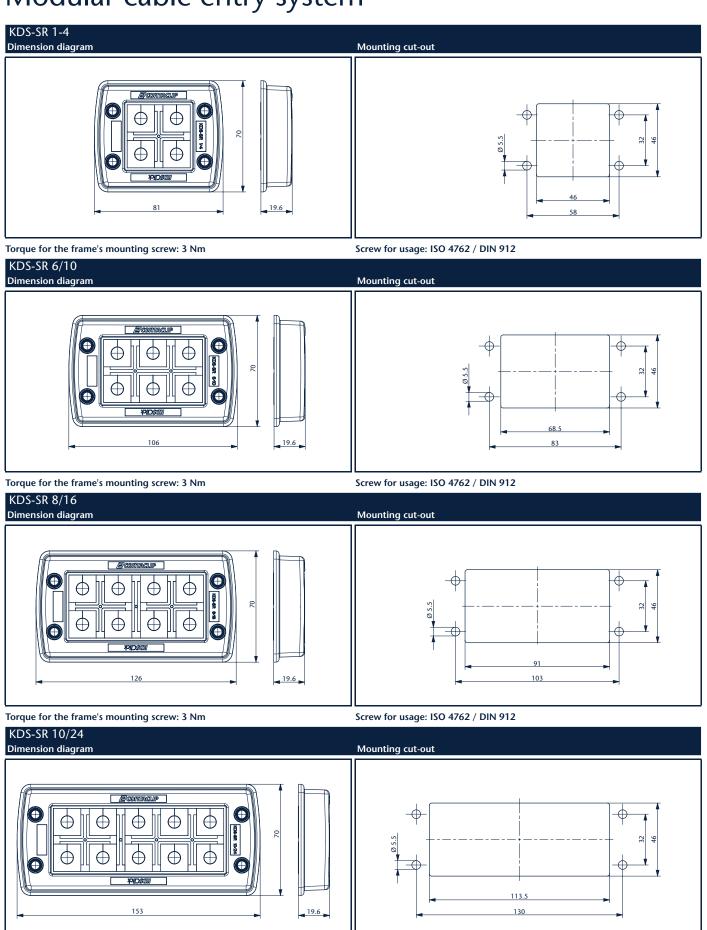
Each of the two or three 10-frame openings can be configured with the appropriate inlays to match a wide variety of customer requirements.



Features

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

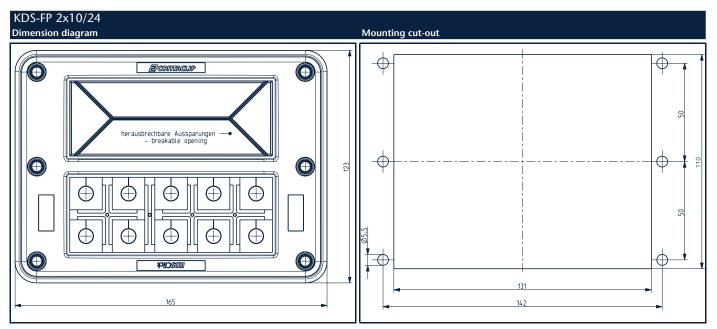
KDSClick: dimensional drawings / mounting cut-outs Modular cable entry system



Torque for the frame's mounting screw: 3 Nm

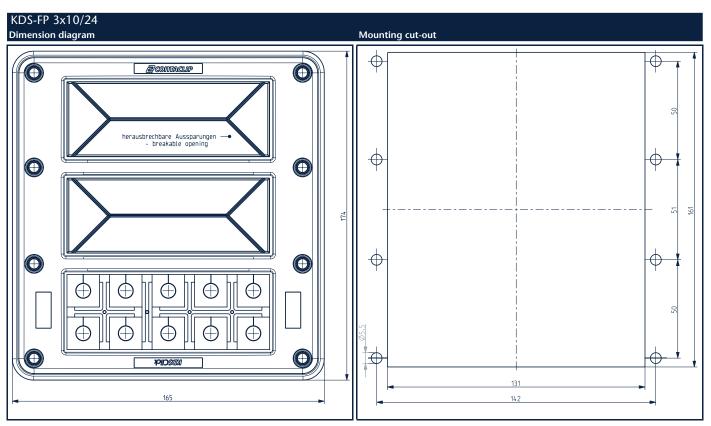
Screw for usage: ISO 4762 / DIN 912

KDS-FP: dimensional drawings / mounting cut-outs Flange plate



Torque for the frame's mounting screw: 3 Nm

Screw for usage: ISO 4762 / DIN 912



Torque for the frame's mounting screw: 3 Nm

Screw for usage: ISO 4762 / DIN 912

KDS-KV Separable cable glands

All-round "cornered" solutions for your requirements!

For metric break-outs from M20 to M63, CONTA-CLIP provides separable cable glands for cables with or without attached plugs. In case of maintenance or retrofitting with assembled cable harnesses, cables with diameters from 2 to 35 mm can be quickly and safely inserted into the switchgear cabinets or housings and sealed according to IP66. This separable system ensures quick and simple installation. The slitted seal has a wave-cut profile that ensures a reliable seal and a totally secure attachment.

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





Your advantages

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

The basic components of the modular system

Split cable glands

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



Separable locknuts

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



Seals

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



KDS-KV Separable cable glands

An overview of your advantages

Mounting

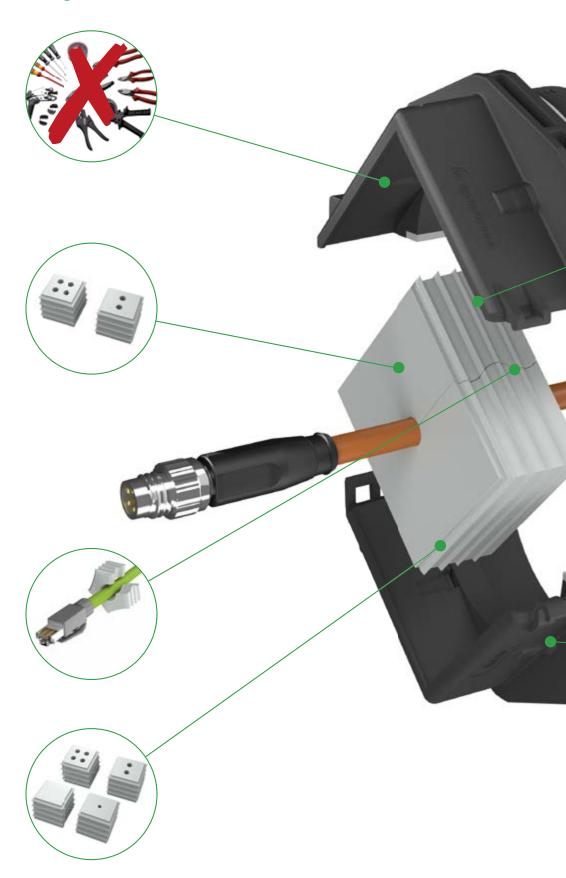
No tools are required to mount the cable gland.

Variability

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

No loss of guarantee with assembled cables
No need to disassemble and reconnect connectors, so the manufacturer's warranty is not voided.

Versatile, high-density assemblies are possible 1-way, 2-way, and 4-way seals provide you with excellent versatility for cable management.





KDS-KV Separable cable glands

Separable cable glands	KDS-KV M20	KDS-KV M25	KDS-KV M32
Diagram	Ø 40 SW 38 SW 28 M20x1.5	Ø 40 SW 38 SW 33 SW 33	Ø 40 E SW 38 SW 40
Туре	KDS-KV M20 BK	KDS-KV M25 BK	KDS-KV M32 BK
Cat. no. Qty			28612.4
Description	Separable cable gland, including separable locknut	Separable cable gland, including separable locknut	Separable cable gland, including separable locknut
Cable diameter, mm			
KDS-DE	1-13	1-14	1-14
Accessories			
Locknut	KDS-GM 20 BK	KDS-GM 25 BK	KDS-GM 32 BK
			28618.4
Description	Separable locknut	Separable locknut	Separable locknut
Seals			
small	KDS-DE	KDS-DE	KDS-DE
Cat. no. Qty	Page 42/43	Page 42/43	Page 42/43 4
Tightening torque of lock nut, in Nm	4	4	4
Combinations			





Features

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

Actuating tool KDS BW 1

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





Туре	
Cat. no.	Qty.
Description	
Material	
Colour	



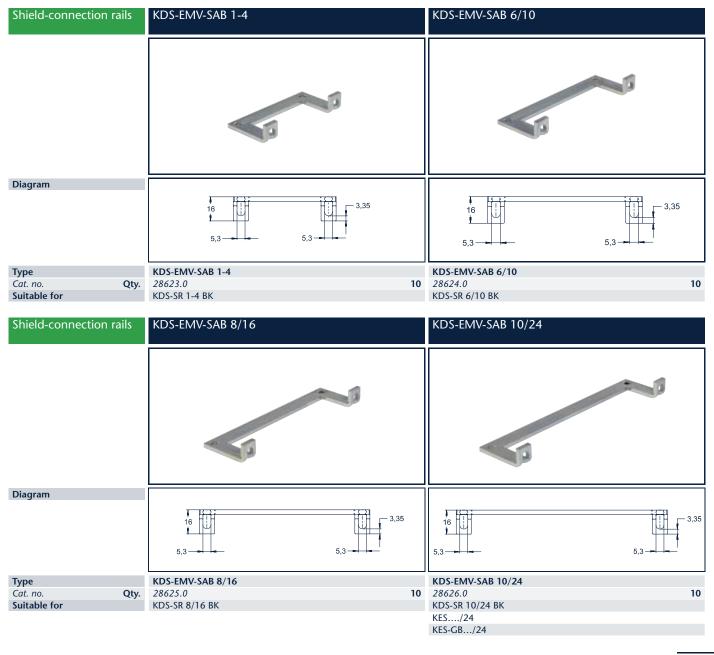
KDS BW 1
28622.0 1
Actuating tool
PA 6.6
varies

Shield-connection rails KDS-EMV-SAB

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

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





Sealing elements for all KDS systems

Seals	grey small		
	Туре	Cat. no. Qty.	Max. Ø
	KDS-DE/B GR	28561.6	Blind
	KDS-DE 1.5-2 GR	28562.6	2 mm
	KDS-DE 2-3 GR	28563.6	3 mm
	KDS-DE 3-4 GR	28564.6	4 mm
	KDS-DE 4-5 GR	28565.6	5 mm
	KDS-DE 5-6 GR	28566.6	6 mm
	KDS-DE 6-7 GR	28567.6	7 mm
	KDS-DE 7-8 GR	28568.6	
	KDS-DE 8-9 GR	28569.6	
	KDS-DE 9-10 GR	<i>28570.6</i> 10	
	KDS-DE 10-11 GR	28571.6	11 mm
	KDS-DE 11-12 GR	28572.6	12 mm
	KDS-DE 12-13 GR	28573.6	13 mm
	KDS-DE 13-14 GR	28574.6	14 mm
	KDS-DE 14-15 GR	28609.6	15 mm
	KDS-DE 15-16 GR	28671.6	16 mm
Seals	grey large		
	KDS-DEG/B GR	<i>28575.6</i> 10	Blind
	KDS-DEG 14-15 GR	28576.6 10	15 mm
	KDS-DEG 15-16 GR	<i>28577.6</i> 10	16 mm
	KDS-DEG 16-17 GR	28578.6	17 mm
	KDS-DEG 17-18 GR	28579.6	18 mm
	KDS-DEG 18-19 GR	28580.6	19 mm
	KDS-DEG 19-20 GR	28581.6	20 mm
	KDS-DEG 20-21 GR	28582.6	21 mm
	KDS-DEG 21-22 GR	28583.6	
	KDS-DEG 22-23 GR	28584.6	
	KDS-DEG 23-24 GR	28585.6	
	KDS-DEG 24-25 GR	28586.6	
	KDS-DEG 25-26 GR	28587.6	
	KDS-DEG 26-27 GR	28588.6	
	KDS-DEG 27-28 GR	28589.6	
	KDS-DEG 28-29 GR	28590.6	
	KDS-DEG 29-30 GR		30 mm
	KDS-DEG 30-31 GR KDS-DEG 31-32 GR	28592.6 10 28593.6 10	31 mm 32 mm
	KDS-DEG 31-32 GR KDS-DEG 32-33 GR		33 mm
Soals with multiple helps		20374.0	33 111111
Seals with multiple holes	grey		
Marian	KDS-DE 2 x 4-5 GR	28595.6 10	5 mm
· · /s	KDS-DE 2 x 5-6 GR	28596.6	6 mm
	KDS-DE 2 x 6.5 GR	28607.6	6.5 mm
	KDS-DE 4 x 2-3 GR	28597.6 10	3 mm
	KDS-DE 4 x 3-4 GR	28598.6	4 mm
	KDS-DE 4 x 4.5 GR	28606.6	4.5 mm
	KDS-DE 4 x 5 GR	28673.6 10	5 mm
Seals for AS interface cables	grey		
Alexander and a second a second and a second a second and	KDS-DE/1 x ASI GR	28599.6 10	
M /4	KDS-DE/2 x ASI GR	28600.6	





NEMA TYPE 12







Made in Germany





Features

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

Seals	black small			
	Туре	Cat. no.	Qty.	Max. Ø
	KDS-DE/B BK	28520.4	10	Blind
	KDS-DE 1.5-2 BK	28521.4	10	2 mm
	KDS-DE 2-3 BK	28522.4	10	3 mm
	KDS-DE 3-4 BK	28523.4	10	4 mm
	KDS-DE 4-5 BK	28524.4	10	5 mm
	KDS-DE 5-6 BK	28525.4	10	6 mm
•	KDS-DE 6-7 BK	28526.4	10	7 mm
	KDS-DE 7-8 BK	28527.4	10	8 mm
	KDS-DE 8-9 BK KDS-DE 9-10 BK	28528.4 28529.4	10 10	9 mm 10 mm
	KDS-DE 7-10 BK	28530.4	10	11 mm
~	KDS-DE 11-12 BK	28531.4	10	12 mm
	KDS-DE 12-13 BK	28532.4	10	13 mm
	KDS-DE 13-14 BK	28533.4	10	14 mm
	KDS-DE 14-15 BK	28608.4	10	15 mm
	KDS-DE 15-16 BK	28670.4		16 mm
Seals	black large			
Jeui3		20524.4	10	Different
	KDS-DEG/B BK KDS-DEG 14-15 BK	28534.4 28535.4	10 10	Blind 15 mm
	KDS-DEG 14-15 BK KDS-DEG 15-16 BK	28536.4	10	16 mm
	KDS-DEG 13-16 BK	28537.4	10	17 mm
	KDS-DEG 16-17 BK KDS-DEG 17-18 BK	28538.4	10	17 mm 18 mm
	KDS-DEG 17-18 BK	28539.4	10	19 mm
	KDS-DEG 19-20 BK	28540.4	10	20 mm
	KDS-DEG 20-21 BK	28541.4	10	21 mm
	KDS-DEG 21-22 BK	28542.4	10	22 mm
	KDS-DEG 22-23 BK	28543.4	10	
	KDS-DEG 23-24 BK	28544.4	10	24 mm
	KDS-DEG 24-25 BK	28545.4	10	25 mm
	KDS-DEG 25-26 BK	28546.4	10	26 mm
	KDS-DEG 26-27 BK	28547.4	10	27 mm
	KDS-DEG 27-28 BK	28548.4	10	28 mm
	KDS-DEG 28-29 BK	28549.4	10	29 mm
	KDS-DEG 29-30 BK	28550.4	10	30 mm
	KDS-DEG 30-31 BK	28551.4	10	31 mm
	KDS-DEG 31-32 BK	28552.4	10	32 mm
	KDS-DEG 32-33 BK	28601.4	10	33 mm
Seals with multiple holes	black			
	KDS-DE 2 x 4-5 BK	28555.4	10	5 mm
• • //	KDS-DE 2 x 5-6 BK	28556.4	10	6 mm
	KDS-DE 2 x 6.5 BK	28682.4	10	6.5 mm
	KDS-DE 4 x 2-3 BK	28557.4	10	
	KDS-DE 4 x 3-4 BK	28558.4		4 mm
	KDS-DE 4 x 4.5 BK	28681.4		4.5 mm
	KDS-DE 4 x 5 BK	28672.4		5 mm
Seals for AS interface cables	black			
	NDS DE /1 ASL DV	20550 4	10	
	KDS-DE/1 x ASI BK	28559.4	10	
	KDS-DE/2 x ASI BK	28560.4	10	
Cone-shaped seals	black			
	KDS-DE/K 2-11 BK	28553.4	10	11 mm
	KDS-DEG/K 7-24 BK	28554.4	10	24 mm
	ND3-DLQ/N 7-24 DN	20334.4	10	Z-7 111111



IP66

NEMA TYPE 12 NEMA TYPE 4X



RoHS compliant

Made in Germany





Features

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

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

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

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





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

Two components

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



Many cables in a confined space

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

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



UL 94 V-0 classification

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



An overview of your advantages

High-density assemblies

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

Very precise

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

Integrated strain relief

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

Can be used from -40 °C to +90 °C

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

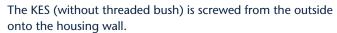


Wide variety of KES variants

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

1. Screw-on mount







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



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



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



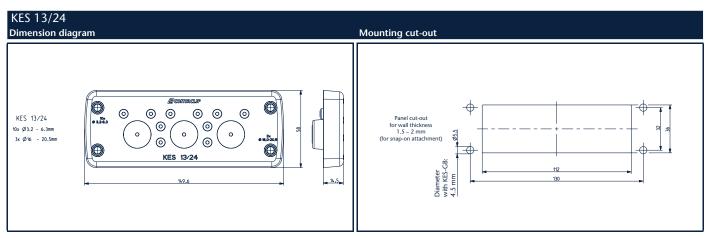
The KES-R is latched from outside to the housing wall using the latching clips.



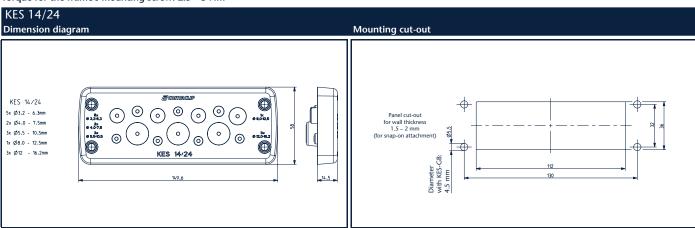
Cable entries	KES 13/24	KES 14/24	KES 16/24
	, 000000		
Diagram	Page 50	Page 50	Page 50
Mounting type Screw-on mount			
Type / colour	KES 13/24 GR	KES 14/24 GR	KES 16/24 GR
Cat. no. Qty.			28632.6 10
Type / colour	KES 13/24 BK ●	KES 14/24 BK ●	KES 16/24 BK ■
Cat. no. Qty.	· · · · · · · · · · · · · · · · · · ·		28632.4
Mounting type	20050	2003	20052
Screw-on mount, with pressed-in threaded bush			
Type / colour	KES-GB 13/24 GR	KES-GB 14/24 GR	KES-GB 16/24 GR
Cat. no. Qty.			28642.6
Type / colour	KES-GB 13/24 BK ■	KES-GB 14/24 BK ■	KES-GB 16/24 BK ■
Cat. no. Qty.	28640.4 10	28641.4	28642.4 10
Mounting type Tool-free latch-on mount			
T / 1		WTC D 4 4/0 4 CD	WTC D 44/04 CD
Type / colour Cat. no. Otv.	KES-R 13/24 GR	KES-R 14/24 GR 28651.6 10	KES-R 16/24 GR 28652.6 10
Cat. no. Qty. Type / colour	_	_	_
Cat. no. Qty.	KES-R 13/24 BK ■ 28650.4 10	KES-R 14/24 BK ● 28651.4 10	KES-R 16/24 BK ■ 28652.4 10
Connection data	28030.4	28031.4	28032.4
Number of cables x cable diameter	10 x 3.2–6.3	5 x 3.2–6.3	8 x 3.2-5.5
Number of cables & cable diameter	3 x 16-20.5	2 x 4-7.5	6 x 5-8.5
	3 × 10-20.3	3 x 5.5-10.5	2 x 9.5-14.5
		1 x 8-12.5	2.7.5 1 1.5
		3 x 12-16.2	
Features			
Material of frame / sealing plate	PA 6.6 GF / elastomer	PA 6.6 GF / elastomer	PA 6.6 GF / elastomer
Temperature range	-40 °C to +90 °C	-40 °C to +90 °C	-40 °C to +90 °C
Protection	IP66	IP66	IP66
Flammability class	UL 94 V-0	UL 94 V-0	UL 94 V-0
Sheet-metal punch	Sheet-metal punch	Sheet-metal punch	Sheet-metal punch
Cat. no.	Page 54	Page 54	Page 54

KES 16-1/24		KES 17/24		KES 20/24		KES 21/24		KES 32/24	
KES 16-1/24		KES 17/24	_	KES 20/24		KES 21/24		KES 32/24	
		3843.33		11888811	•				
D 50		D 51	_	D 51		D 51		D 51	
Page 50		Page 51		Page 51		Page 51		Page 51	
KES 16-1/24 GR		KES 17/24 GR		KES 20/24 GR		KES 21/24 GR		KES 32/24 GR ■	
28633.6	10		10		10	28636.6	10	28637.6	10
KES 16-1/24 BK		KES 17/24 BK		KES 20/24 BK		KES 21/24 BK ■		KES 32/24 BK	
28633.4	10	28634.4	10	28635.4	10	28636.4	10	28637.4	10
KES-GB 16-1/24 GR 28643.6 KES-GB 16-1/24 BK 28643.4	10	KES-GB 17/24 BK ■	10	KES-GB 20/24 GR 28645.6 KES-GB 20/24 BK 28645.4		KES-GB 21/24 GR 28646.6 KES-GB 21/24 BK 28646.4		KES-GB 32/24 GR 28647.6 KES-GB 32/24 BK 28647.4	10
KES-R 16-1/24 GR	10	KES-R 17/24 GR	10	KES-R 20/24 GR	10	KES-R 21/24 GR	10	KES-R 32/24 GR	10
28653.4	10	·	10		10	28656.4	10	28657.4	10
2 x 3.2–6.3		4 x 3.2–6.3		12 x 3.2–6.3		1 x 3.2-6.3		32 x 3.2–6.3	
9 x 4-7.5		2 x 4-7.5		8 x 5.5-10.5		14 x 4-7.5		32 N 3.2 0.3	
1 x 5.5-10.5		1 x 5.5-10.5				4 x 5.5-10.5			
1 x 8-12.5		10 x 8-12.5				2 x 8-12.5			
3 x 12-16.2									
PA 6.6 GF / elastomer		PA 6.6 GF / elastomer		PA 6.6 GF / elastomer		PA 6.6 GF / elastomer		PA 6.6 GF / elastomer	
-40 °C to +90 °C		-40 °C to +90 °C		-40 °C to +90 °C		−40 °C to +90 °C		−40 °C to +90 °C	
IP66		IP66		IP66		IP66		IP66	
UL 94 V-0		UL 94 V-0		UL 94 V-0		UL 94 V-0		UL 94 V-0	
Sheet-metal punch		Sheet-metal punch		Sheet-metal punch		Sheet-metal punch		Sheet-metal punch	
Page 54		Page 54		Page 54		Page 54		Page 54	

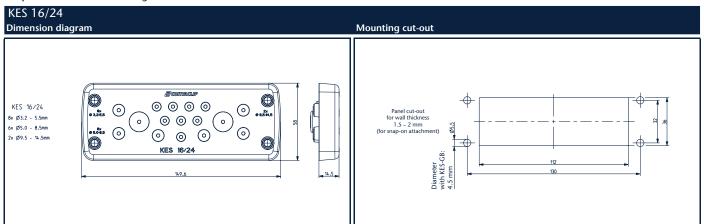
KES: dimensional drawings / mounting cut-outs cable entries



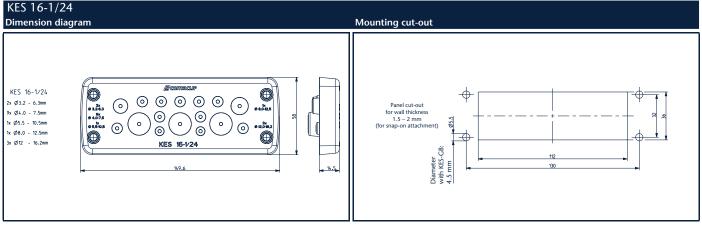
Torque for the frame's mounting screw: 2.5 - 3 Nm



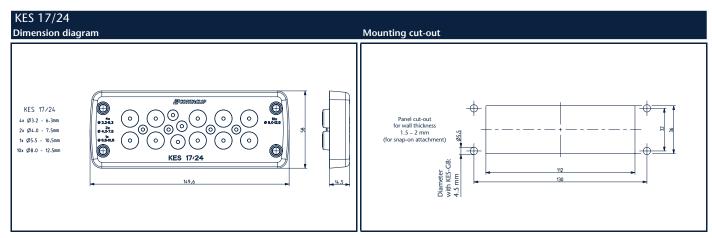
Torque for the frame's mounting screw: 2.5 – 3 Nm



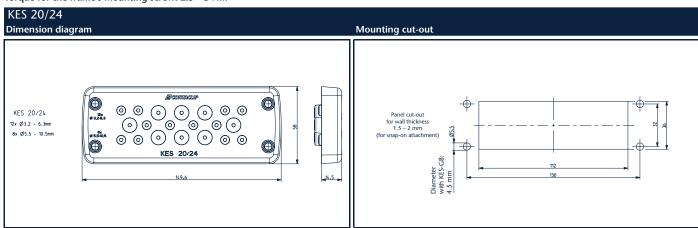
Torque for the frame's mounting screw: 2.5 - 3 Nm



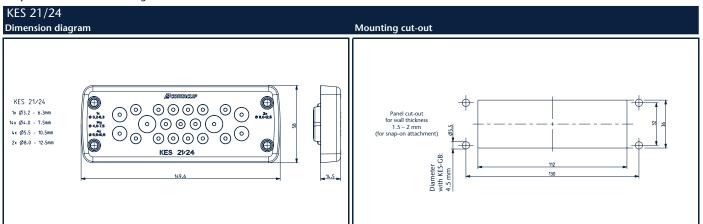
Torque for the frame's mounting screw: 2.5 - 3 Nm



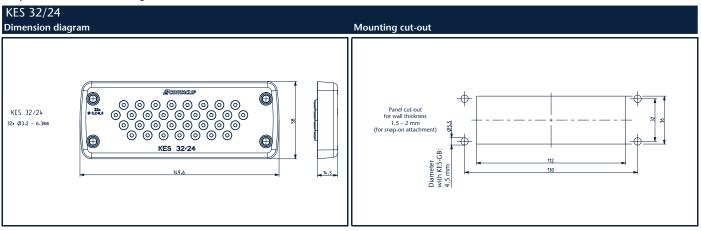
Torque for the frame's mounting screw: 2.5 - 3 Nm



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



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



Punching tool

The hydraulic hand pump, when used together with our sheet metal punches, is perfectly suited for quickly producing precise chip-free breakouts.

The sheet metal punches for rectangular format are available for all KDSClick cable entry systems and for all KES cable entry systems. The built-in punch-hole marking tip can be used to punchmark the drill points clearly for screw-on attachments.

Sheet metal punches are available in circular format for the sizes M20, M25, M32, M40, M50 and M63.

The hydraulic hand pump is also compatible with sheet-metal punches from other popular manufacturers.



Hydraulic hand pump

Hydraulic hand pump

The hydraulic hand pump can be used to punch out openings for various cable feed-through and cable entry systems. The cylinder can be swivelled along 3 axes and rotated 360°, so that the break-outs can also be punched in inconvenient places.



Your advantages

- Easy-to-use format without a tube
- Cylinder can rotate 360° and swivel along 3 axes
- Lightweight aluminium version (weight: 2 kg)
- Can also be used for inconvenient hard-to-reach locations



Features

Punching functionality for max. material thickness

- Round holes 82.0 mm, steel 3 mm, VA 2 mm
- Square holes 68.0 x 68.0 mm, steel 3 mm, VA 2 mm
- Rectangular holes 36.0 x 112.0 mm, steel 3 mm, VA 2 mm

Hydraulic pump





Hydraulic hand pump for sheet-metal punch	
28679.0	1
1 hydraulic hand pump	
1 hydraulic screw 19.0 x 130 mm	
1 hydraulic screw 19.0 / 9.5 mm	
1 spacer bushing	
1 tube of anti-wear paste	
1 HSS co-boring drill	
Multi-step drill, steps: 8-10-11.5-12.5 (M12) 14.5-17.5-21 mm	
1 transport box	
T transport box	

Sheet-metal punch BL

Sheet metal punch for the KDSClick, KDS-FP, KDS-FB, KDS-KV and KES cable entry systems. Using the sheet-metal punch, you can produce the desired break-outs, without any chips, in just a few minutes. The built-in punch-hole marking tip can be used to punch-mark the drill points clearly for screw-on attachments. These sheet-metal punchs are compatible with all common hydraulic pumps.



Punch, die, draw stud and counter nut in a plastic case

20.4 mm

Punch, die

Sheet-metal punch BL		BL KDS-SR 1-4	BL KDS-SR 6/10	BL KDS-SR 8/16
Туре		BL KDS-SR 1-4	BL KDS-SR 6/10	BL KDS-SR 8/16
Cat. no.	Qty.	28674.0	28675.0 1	<i>28676.0</i> 1
Maximum wall thickness		2.0 mm, for S 235 sheet metal	2.0 mm, for S 235 sheet metal	2.0 mm, for S 235 sheet metal
Dimensions of break-out hole		46 x 46 mm	83 x 46 mm	103 x 46 mm
Scope of delivery		Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case
Sheet-metal punch BL		BL-VA KDS-SR 1-4	BL-VA KDS-SR 6/10	BL-VA KDS-SR 8/16
Туре		BL-VA KDS-SR 1-4	BL-VA KDS-SR 6/10	BL-VA KDS-SR 8/16
Cat. no.	Qty.	28683.0	28684.0	28685.0
Maximum wall thickness		2.0 mm, with stainless steel sheet	2.0 mm, with stainless steel sheet	2.0 mm, with stainless steel sheet
Dimensions of break-out hole		46 x 46 mm	83 x 46 mm	103 x 46 mm
Scope of delivery		Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case
Sheet-metal punch BL		BL KES	BL KDS-FP2	BL KDS-KV M20
Туре		BL KES	BL KDS-FP2	BL KDS-KV M20
Cat. no.	Qty.	28744.0	28745.0	28746.0
Maximum wall thickness	. ,	2.0 mm, for S 235 sheet metal	2.0 mm, for S 235 sheet metal	2.0 mm, for S 235 sheet metal
Dimensions of break-out hole		112 x 36 mm	110 x 131 mm	20.4 mm
Scope of delivery		Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die
Sheet-metal punch BL		BL-VA KES	BL-VA KDS-FP2	BL-VA KDS-KV M20
Туре		BL-VA KES	BL-VA KDS-FP2	BL-VA KDS-KV M20
Cat. no.	Qty.		28753.0 1	28754.0
Maximum wall thickness		2.0 mm, with stainless steel sheet	2.0 mm, with stainless steel sheet	2.0 mm, with stainless steel sheet

112 x 36 mm

Punch, die, draw stud, counter nut, plastic case 110 x 131 mm

Punch, die, draw stud, counter nut, plastic case

Dimensions of break-out hole

Scope of delivery





28755.0 2.0 mm, with stainless steel sheet 25.4 mm

Punch, die

1 28756.0

32.5 mm

Punch, die

2.0, with stainless steel sheet



Rectangular punches

1 28758.0

50.5 mm

Punch, die

2.0, with stainless steel sheet

BL KDS-SR 10/24	BL KDS-FB1	BL KDS-FB2	BL KDS-FB3	BL KDS-FB4
BL KDS-SR 10/24	BL KDS-FB1	BL KDS-FB2	BL KDS-FB3	BL KDS-FB4
28677.0	28734.0	28735.0 1	28736.0	28737.0 1
2.0 mm, for S 235 sheet metal	2.0 mm, for \$ 235 sheet metal			
130 x 46 mm	46 x 24 mm	68 x 24 mm	89 x 24 mm	111 x 24 mm
Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case
BL-VA KDS-SR 10/24	BL-VA KDS-FB1	BL-VA KDS-FB2	BL-VA KDS-FB3	BL-VA KDS-FB4
BL-VA KDS-SR 10/24	BL-VA KDS-FB1	BL-VA KDS-FB2	BL-VA KDS-FB3	BL-VA KDS-FB4
28686.0	28729.0	28741.0 1	28742.0 1	28743.0 1
2.0 mm, with stainless steel sheet	2.0, with stainless steel sheet	2.0, with stainless steel sheet	2.0, with stainless steel sheet	2.0 mm, with stainless steel sheet
130 x 46 mm	46 x 24 mm	68 x 24 mm	89 x 24 mm	111 x 24 mm
Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case	Punch, die, draw stud, counter nut, plastic case
BL KDS-KV M25	BL KDS-KV M32	BL KDS-KV M40	BL KDS-KV M50	BL KDS-KV M63
BL KDS-KV M25	BL KDS-KV M32	BL KDS-KV M40	BL KDS-KV M50	BL KDS-KV M63
28747.0	28748.0	28749.0	28750.0	28751.0 1
2.0 mm, for S 235 sheet metal				
25.4 mm	32.5 mm	40.5 mm	50.5 mm	63.5 mm
Punch, die				
DI VA KDC KVA 425	DI VA KDS KAANAA	DI VA KOS KAANA	DI VA KOS KAANTA	BL VA VDC VVA VC
BL-VA KDS-KV M25	BL-VA KDS-KV M32	BL-VA KDS-KV M40	BL-VA KDS-KV M50	BL-VA KDS-KV M63
BL-VA KDS-KV M25	BL-VA KDS-KV M32	BL-VA KDS-KV M40	BL-VA KDS-KV M50	BL-VA KDS-KV M63

2.0, with stainless steel sheet

1 28757.0

40.5 mm

Punch, die

28759.0 2.0 mm, with stainless steel sheet

63.5 mm

Punch, die

Shield-connection clip

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

When constructing low-interference systems, both the cable shielding and the shielded ground are very important. The juncture where the cable shielding connects to the housing ground is a critical point. The connection should be low-ohm and should also feature minimal inductive resistance.

You should be certain that this connection can be established in a practical, simple and quick manner. CONTA-CLIP's SAB/SSAB shielding systems are one of the most comprehensive product portfolios on the market. They offer a perfect solution for any application.



Overview of installation types

Direct mounting



SAB...D Page 65



SABKM.../D Page 64

C-rail mounting



SAB...GWP Page 69

Busbar mounting



SABKM.../SSCH/Z Page 66



SABKMD.../SSCH/Z Page 66



SAB Page 67



SSAB Page 68

Mounting on the DIN rail



SAB.../F Page 71



SAB .../MF Page 72



SABKM.../MF/35/Z Page 70

Shield-connection bracket SABK

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

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

The large contact areas ensure excellent dissipation of interference current.

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



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





Shield-connection bracket Multi SABKM

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

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

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

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

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



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



Mounting foot MF-SABK/D for direct mounting

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



Your advantages

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

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



1. Screw on the mounting foot



2. Snap on your SABK



3. Press in the cable shield



4. Apply strain relief with cable ties





Cat. no.

Material

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

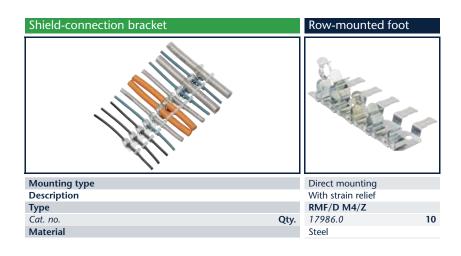
The row-mounted foot for direct installation is a universal holder for up to 12 shield-connection brackets, for cable clamping diameters from 1.5 to 18 mm. The row-mounted foot can be shortened to the desired length by breaking it at one of its breakage points. Either screws or rivets can be used to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

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





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



Mounting foot MF-SABK/SSCH for mounting on busbar

The mounting foot for installing on a busbar is used as a universal holder for the shield-connection brackets, for cable diameters from 1.5 to 18 mm. Simply snap the mounting foot onto the 10×3 mm busbar. Then snap in the corresponding shield-connection bracket and press in the cable shield.



Your advantages

- Tool-free mounting on a 10 x 3 mm rail
- For shield-connection brackets with a 1.5 – 18 mm clamping range
- Variable assembly options leads to less product types
- Less parts in your warehouse
- Very compact construction
- Cable tie can be used for strain relief

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



1. Screw on the mounting foot



2. Snap on your SABK



3. Press in the cable shield



4. Apply strain relief with cable ties



Mounting type	
Description	
Туре	
Cat. no.	Qty.
Material	



10



Busbar mounting
Without strain relief
MF-SABK/SSCH
27218.0 10
Steel

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

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



Your advantages

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

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



1. Screw on the mounting foot



2. Snap on your SABK



3. Press in the cable shield



4. Apply strain relief with cable ties



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

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



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



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

The SAB.../D shield-connection clip can be used for direct mounting installations. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact. The SAB.../D can be installed with an M4 screw (included in delivery) directly to the mounting plate.

The SAB 8/D M5 shield-connection clip comes with a special feature; it is equipped with a self-cutting M5 SW3 metal screw. As a result, less time is required to mount the clip on the mounting plate, since you only need to drill one 4.2-mm hole through the plate. The hole threads will then be cut into the plate by the screw.



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



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

The Multi shield-connection clamp (on mounting foot) can be snapped onto a 10x3mm busbar without using any tools. The cable shield must only be pressed into the Multi shield-connection bracket in order to establish a reliable contact. The strain relief clip can be used with a cable tie to relieve strain.



- No tools required to mount on a 10 x 3 mm busbar
- Extremely compact construction
- Cable tie can be used for strain relief

Shield-connection bracket	SABKM/SSCH	SABKM/SSCH	SABKMD/SSCH	SABKMD/SSCH/Z
	TO TO			
Mounting type	Busbar mounting	Busbar mounting	Busbar mounting	Busbar mounting
Description	Without strain relief	With strain relief	Without strain relief	With strain relief
Туре	SABKM 12/SSCH	SABKM 12/SSCH/Z	SABKD 1.5-3/SSCH	SABKD 1.5-3/SSCH/Z
Cat. no. Qty.	<i>27224.0</i> 10	17982.0 10	<i>27250.0</i> 10	<i>27259.0</i> 10
Cable diameter Ø	3 – 12 mm	3 – 12 mm	1.5 – 3 mm	1.5 – 3 mm
Material	Steel	Steel	Steel	Steel
Type	SABKM 18/SSCH	SABKM 18/SSCH/Z	SABKD 3-6/SSCH	SABKD 3-6/SSCH/Z
Cat. no. Qty.	27225.0 10	17983.0 10	<i>27251.0</i> 10	<i>27260.0</i> 10
Cable diameter Ø	7 – 18 mm	7 – 18 mm	3 – 6 mm	3 – 6 mm
Material	Steel	Steel	Steel	Steel
Туре	SABKM 22/SSCH	SABKM 22/SSCH/Z	SABKD 6-8/SSCH	SABKD 6-8/SSCH/Z
Cat. no. Qty.	27226.0 10	<i>27228.0</i> 10	<i>27252.0</i> 10	<i>27254.0</i> 10
Cable diameter Ø	17 – 22 mm	17 – 22 mm	6 – 8 mm	6 – 8 mm
Material	Steel	Steel	Steel	Steel
Туре	SABKM 29/SSCH	SABKM 29/SSCH/Z	SABKMD 3-12/SSCH	SABKMD 3-12/SSCH/Z
Cat. no. Qty.	<i>27227.0</i> 10	<i>27262.0</i> 10	<i>27253.0</i> 10	<i>27255.0</i> 10
Cable diameter Ø	23 – 29 mm	23 – 29 mm	3 – 12 mm	3 – 12 mm
Material	Steel	Steel	Steel	Steel

Shield-connection clip SAB

The SAB can be mounted on a busbar. After connecting the wiring, the shield-connection clip is mounted by simply swivelling in the SAB clip onto the busbar. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact. This makes the SAB shield-connection clip very convenient to wire. Depending on the length of the terminal blocks, two or more SH/SAB busbar holders should be used. These mechanically connect the front busbar with the DIN rail (holder).



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



Shield-connection clip SSAB for mounting on busbar

The SSAB can be mounted on a busbar. After wiring the terminal block, the shield-connection clip is mounted by simply swivelling in and tightening the knurled thumb screw. This makes the SSAB screw-shield-connection clip very convenient to wire. Depending on the length of the terminal blocks, two or more SH/SAB busbar holders should be used. These mechanically connect the front busbar with the DIN rail (holder). The SH1 busbar holders are used where a shield-connection system must be mounted directly onto a panel rather than a DIN rail. The 10 x 3 mm busbars can be easily and quickly snapped on to these supports. In both cases, the contact with the earth or ground potential can be established with a ZB clamping yoke.



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



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

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



Your advantages

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

Shield-connection clip for C-rail





Mounting type	
Туре	
Cat. no.	Qty.
Cable diameter Ø	
Material	
Туре	
Cat. no.	Qty.
Cable diameter Ø	
Material	
Туре	
Cat. no.	Qty.
Cable diameter Ø	
Material	
Туре	
Cat. no.	Qty.
Cable diameter Ø	
Material	

C nail manusations	
C-rail mounting	
SAB 8/GWP	
17356.0	10
3 – 8 mm	
Steel	
SAB 13.5/GWP	
17357.0	10
4 – 13.5 mm	
Steel	
SAB 20/GWP	
17358.0	10
10 – 20 mm	
Steel	
SAB 32/GWP	
17359.0	10
15 – 32 mm	
Steel	

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

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



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

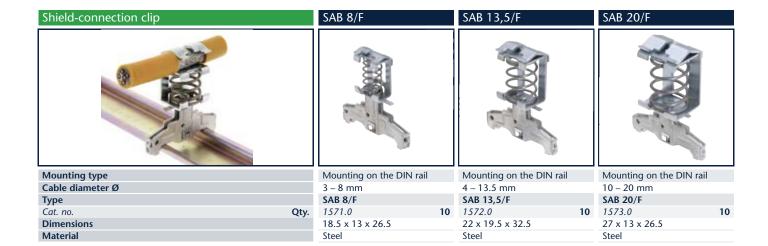


Shield-connection clip SAB...F for DIN rail mounting

The SAB../F shield-connection clip can be mounted on a DIN rail. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact. The SAB../F can be mounted directly to the TS 35 rail using the clamping foot and a mounting screw.



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

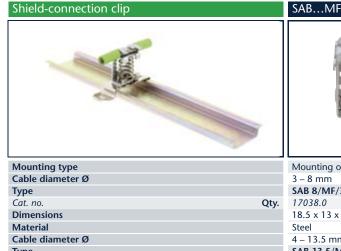


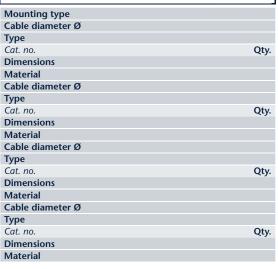
Shield-connection clip SAB...MF for DIN rail mounting

The SAB.../MF/35 can be installed on a DIN rail. The SAB.../MF/35 is snapped on directly via the internal-spring MF/35 mounting foot without using any tools. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the DIN rail.



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







Mounting on the DIN rail	
3 – 8 mm	
SAB 8/MF/35	
17038.0	10
18.5 x 13 x 26.5	
Steel	
4 – 13.5 mm	
SAB 13.5/MF/35	
17039.0	10
22 x 19.5 x 32.5	
Steel	
10 – 20 mm	
SAB 20/MF/35	
17040.0	10
27 x 24.5 x 40.5	
Steel	
15 – 32 mm	
SAB 32/MF/35	
17363.0	10
53.2 x 33 x 71.5	
Steel	



Mounting on the DIN rail	
3 – 8 mm	
SAB 8/MF/35/S	
17340.0	10
18.5 x 13 x 26.5	
Steel	
4 – 13.5 mm	
SAB 13.5/MF/3/S5	
17341.0	5
22 x 19.5 x 32.5	
Steel	
10 – 20 mm	
SAB 20/MF/35/S	
17342.0	10
27 x 24.5 x 40.5	
Steel	
15 – 32 mm	
SAB 32/MF/35/S	
17343.0	10
53.2 x 33 x 71.5	
Steel	

Busbar holder

Busbar holders are used for mounting all shield-connection clips with 10x3mm busbars. These can be mounted quickly and flexibly according to your requirements. The SH1 busbar holders are used where a shield-connection system must be mounted directly onto a panel rather than a DIN rail. The 10x3mm busbars can be easily and quickly snapped on to these supports.

The SH/SAB busbar holders mechanically connect the preceding busbar with the DIN rail. Thus, the shield-connection clip can easily be extended directly to the terminal strip. The ES 35/K/ST end stops have a built-in support that makes it easy to mount 10x3mm busbars directly above a 35mm DIN rail.

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



Types and catalogue numbers, alphabetic

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BL KDS-KV M20	28746.0	54	KDS-DE 4x3-4 GR	28598.6	42	KDS-DEG 30-31 GR	28592.6	42
BL KDS-KV M25	28747.0	55	KDS-DE 4x4,5 BK	28681.4	43	KDS-DEG 31-32 BK	28552.4	43
BL KDS-KV M32	28748.0	55	KDS-DE 4x4,5 GR	28606.6	42	KDS-DEG 31-32 GR	28593.6	42
BL KDS-KV M40	28749.0	55	KDS-DE 4x5 BK	28672.4	43	KDS-DEG 32-33 BK	28601.4	43
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BL KDS-FB4	28737.0	55	KDS-DE 7-8 BK	28527.4	43	KDS-EMV-SAB 10/24	28626.0	41
BL KDS-FP2	28745.0	54	KDS-DE 7-8 GR	28568.6	42	KDS-EMV-SAB 6/10	28624.0	41
BL KDS-SR 1-4	28674.0	54	KDS-DE 8-9 BK	28528.4	43	KDS-EMV-SAB 8/16	28625.0	41
BL KDS-SR 10/24	28677.0	55	KDS-DE 8-9 GR	28569.6	42	KDS-FP 2x10/24 BK	28660.4	30
BL KDS-SR 6/10	28675.0	54	KDS-DE 9-10 BK	28529.4	43	KDS-FP 3x10/24 BK	28661.4	30
BL KDS-SR 8/16	28676.0	54	KDS-DE 9-10 GR	28570.6	42	KDS-FP-IVR OG	28664.3	30
BL KES	28744.0	54	KDS-DE-FB1/A GR	28713.6	16	KDS-GM 20 BK	28616.4	38
BL-VA KDS-KV M20	28754.0	54	KDS-DE-FB1/B GR	28714.6	16	KDS-GM 25 BK	28617.4	38
BL-VA KDS-KV M25	28754.0	55	KDS-DE-FB1/C GR	28715.6	16	KDS-GM 32 BK	28618.4	38
BL-VA KDS-KV M32	28756.0	55	KDS-DE-FB1/D GR	28716.6	16	KDS-GM 40 BK	28619.4	39
BL-VA KDS-KV M40	28757.0	55	KDS-DE-FB1/E GR	28717.6	16	KDS-GM 50 BK	28620.4	39
BL-VA KDS-KV M50 BL-VA KDS-KV M63	28758.0 28759.0	55 55	KDS-DE-FB1/F GR KDS-DE-FB2/A GR	28718.6 28719.6	16 16	KDS-GM 63 BK KDS-Inlay 1 BK	28621.4 28516.4	39 24
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BL-VA KDS-FB2	28741.0	55	KDS-DE-FB2/C GR	28721.6	16	KDS-Inlay 4 BK	28518.4	24
BL-VA KDS-FB3	28742.0	55	KDS-DE-FB2/D GR	28722.6	16	KDS-Inlay 6 BK	28519.4	24
BL-VA KDS-FB4	28743.0	55	KDS-DE-FB2/E GR	28723.6	16	KDS-IVR 1-4 BK	28507.4	24
BL-VA KDS-FP2	28753.0	54	KDS-DE-FB2/F GR	28724.6	16	KDS-IVR 10/24 BK	28505.4	24
BL-VA KDS-SR 1-4	28683.0	54	KDS-DE-FB3/A GR	28725.6	16	KDS-IVR 6/10 BK	28501.4	24
BL-VA KDS-SR 10/24	28686.0	55	KDS-DE-FB3/B GR	28726.6	16	KDS-IVR 8/16 BK	28503.4	24
BL-VA KDS-SR 6/10	28684.0	54	KDS-DE-FB4/A GR	28727.6	16	KDS-KV M20 BK	28610.4	38
BL-VA KDS-SR 8/16	28685.0	54	KDS-DE-FB4/B GR	28728.6	16	KDS-KV M25 BK	28611.4	38
BL-VA KES	28752.0	54	KDS-DE/1XASI BK	28559.4	43	KDS-KV M32 BK	28612.4	38
E			KDS-DE/1XASI GR	28599.6	42	KDS-KV M40 BK	28613.4	39
			KDS-DE/2XASI BK	28560.4	43	KDS-KV M50 BK	28614.4	39
ES 35/K/ST BG	2828.0	73	KDS-DE/2XASI GR	28600.6	42	KDS-KV M63 BK	28615.4	39
H			KDS-DE/B BK	28520.4	43	KDS-Set 1-4 BK	28602.4	24
	20770.0		KDS-DE/B GR	28561.6	42	KDS-Set 10/24 BK	28605.4	24
Hydraulic hand pump for sheet-metal punch	28679.0	53	KDS-DE/K 2-11 BK KDS-DEG 14-15 BK	28553.4 28535.4	43	KDS-Set 6/10 BK	28603.4 28604.4	24 24
·			KDS-DEG 14-15 GR	28576.6	42	KDS-Set 8/16 BK KDS-SR 1-4 BK	28506.4	24
K			KDS-DEG 14-15 GK KDS-DEG 15-16 BK	28536.4	43	KDS-SR 10/24 BK	28504.4	24
KDS BW 1	28622.0	40	KDS-DEG 15-16 GR	28577.6	42		28500.4	24
KDS-DE 1,5-2 BK	28521.4	43	KDS-DEG 16-17 BK	28537.4	43	KDS-SR 8/16 BK	28502.4	24
KDS-DE 1,5-2 GR	28562.6	42	KDS-DEG 16-17 GR	28578.6	42	KDS-SR-FB1/A BK	28700.4	12
KDS-DE 10-11 BK	28530.4	43	KDS-DEG 17-18 BK	28538.4	43	KDS-SR-FB2/A BK	28701.4	12
KDS-DE 10-11 GR	28571.6	42	KDS-DEG 17-18 GR	28579.6	42	KDS-SR-FB2/B BK	28702.4	12
KDS-DE 11-12 BK	28531.4	43	KDS-DEG 18-19 BK	28539.4	43	KDS-SR-FB3/A BK	28703.4	13
KDS-DE 11-12 GR	28572.6	42	KDS-DEG 18-19 GR	28580.6	42	KDS-SR-FB3/B BK	28704.4	13
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KDS-DE 2-3 GR	28563.6	42	KDS-DEG 23-24 GR	28585.6	42	KES 13/24 GR	28630.6	48
KDS-DE 2x4-5 BK	28555.4	43	KDS-DEG 24-25 BK	28545.4	43	KES 14/24 BK	28631.4	48
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KDS-DE 2x5-6 BK	28556.4	43	KDS-DEG 25-26 BK	28546.4	43	KES 16-1/24 BK	28633.4	49
KDS-DE 2x5-6 GR	28596.6	42	KDS-DEG 25-26 GR	28587.6	42	KES 16-1/24 GR	28633.6	49
KDS-DE 2x6,5 BK	28682.4	43	KDS-DEG 26-27 BK	28547.4	43	KES 16/24 BK	28632.4	48
KDS-DE 2x6,5 GR	28607.6	42	KDS-DEG 26-27 GR	28588.6	42	KES 16/24 GR	28632.6	48
KDS-DE 3-4 BK	28523.4	43	KDS-DEG 27-28 BK	28548.4	43	KES 17/24 BK	28634.4	49
KDS-DE 4-5 BK	28564.6	42	KDS-DEG 27-28 GR	28589.6	42	KES 17/24 GR	28634.6	49
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KES-GB 21/24 BK	28646.4	49	SABKD 1,5-3/SSCH/Z	27259.0	66	
KES-GB 21/24 GR	28646.6	49	SABKD 3-6/SSCH/Z	27260.0	66	
KES-GB 32/24 BK	28647.4	49	SABKM 12	17975.0	59	
KES-GB 32/24 GR	28647.6	49	SABKM 12/D M4	27246.0	64	
KES-R 13/24 BK	28650.4	48	SABKM 12/D M4/Z	17984.0	64	
KES-R 13/24 GR	28650.6	48	SABKM 12/MF/35	27237.0	70	
KES-R 14/24 BK	28651.4	48	SABKM 12/MF/35/Z	17980.0	70	
KES-R 14/24 GR	28651.6	48	SABKM 12/SSCH	27224.0	66	
KES-R 16-1/24 BK	28653.4	49	SABKM 12/SSCH/Z	17982.0	66	
KES-R 16-1/24 GR	28653.6	49	SABKM 18	17976.0	59	
KES-R 16/24 BK	28652.4	48	SABKM 18/D M4	27247.0	64	
KES-R 16/24 GR	28652.6	48	SABKM 18/D M4/Z	17985.0	64	
KES-R 17/24 BK	28654.4	49	SABKM 18/MF/35	27238.0	70	
KES-R 17/24 GR	28654.6	49	SABKM 18/MF/35/Z	17981.0	70	
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KES-R 20/24 GR	28655.6	49	SABKM 18/SSCH/Z	17983.0	66	
KES-R 21/24 BK	28656.4	49	SABKM 22/D M4	27248.0	64	
KES-R 21/24 GR	28656.6	49	SABKM 22/D M4/Z	27220.0	64	
KES-R 32/24 BK	28657.4	49	SABKM 22/SSCH	27226.0	66	
KES-R 32/24 GR	28657.6	49	SABKM 22/SSCH/Z	27228.0	66	
KES-K SZ/Z+ GK	20037.0	77	SABKM 29/D M4	27249.0	64	
M			SABKM 29/D M4/Z	27221.0	64	
MF-SABK/35	17261.0	63	SABKM 29/SSCH	27227.0	66	
	17201.0	63		27227.0		
MF-SABK/35/Z			SABKM 29/SSCH/Z		66	
MF-SABK/SSCH	27218.0	62	SABKM 35/D M4	27256.0	64	
MF-SABK/SSCH/Z	17979.0	62	SABKM 35/MF/35	27239.0	70	
MF/D M4	27217.0	60	SABKM 65/D M4	27257.0	64	
MF/D M4/Z	17977.0	60	SABKM 65/MF/35	27258.0	70	
R			SABKMD 1,5-3/SSCH	27250.0	66	
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SAB 13,5/D	1550.0	65	SABKMD 6-8/SSCH	27252.0	66	
SAB 13,5/F	1572.0	71	SABKMD 6-8/SSCH/Z	27254.0	66	
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SAB 20	1529.0	67	SSAB 20	3697.0	68	
SAB 20/D	1551.0	65	SSAB 28	3698.0	68	
SAB 20/F	1573.0	71	SSAB 35	3699.0	68	
SAB 20/GWP	17358.0	69	SSAB 5	3694.0	68	
SAB 20/MF/35	17040.0	72	SSAB 8	3695.0	68	
SAB 20/MF/35/S	17342.0	72				
SAB 32/D	17361.0	65				
SAB 32/GWP	17359.0	69				
SAB 32/MF/35	17363.0	72				
SAB 32/MF/35/S	17343.0	72				
SAB 8	1527.0	67				
SAB 8/D	1549.0	65				
SAB 8/D/M5	1526.0	65				
SAB 8/F	1571.0	71				
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SAB 8/MF/35/S	17340.0	72				
SABK 11	17973.0	58				
SABK 11/MF/35	27232.0	70				
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19260 SAB 8 D/MS 65 27233 SAB 16 AMF-155 70 28569 AMF-150E (23-92 B) K 43 19280 SAB 13,5 67 27235 SAB 12,5 70 28551 K DS-DEC (23-93 B) K 43 19280 SAB 13,5 67 27235 SAB 12,5 70 28551 K DS-DEC (23-93 B) K 43 19280 SAB 13,5 67 27235 SAB 12,5 70 28551 K DS-DEC (33-23 B) K 43 19280 SAB 13,5 67 27235 SAB 12,5 70 28551 K DS-DEC (33-23 B) K 43 19280 SAB 13,5 M 19280 SAB 13,5	1	-71	95			•		<u> </u>	
1927.0 SAB 8 67 2724.0 SAB K 22/MF/35 70 2859.4 KDS/DEC/29-30 RK 43 1529.0 SAB 2.0 67 27234.0 SAB 2.0 SAB	ı			27232.0		70	28548.4		43
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17261.0	17039.0	SAB 13,5/MF/35	72	27258.0	SABKM 65/MF/35	70	28574.6	KDS-DE 13-14 GR	42
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17343.0 SAB 32/MF/35/S 72 28501.4 KDS-IVR 6/10 BK 24 28580.6 KDS-DEC 18-19 CR 42 17356.0 SAB 8/CWP 69 28503.4 KDS-NR 8/16 BK 24 28581.6 KDS-DEC 19-20 CR 42 17358.0 SAB 13,5/CWP 69 28503.4 KDS-NR 8/16 BK 24 28582.6 KDS-DEC 20-21 CR 42 17358.0 SAB 20/CWP 69 28504.4 KDS-SR 10/24 BK 24 28582.6 KDS-DEC 21-22 CR 42 17361.0 SAB 32/D 65 28506.4 KDS-NR 10/24 BK 24 28583.6 KDS-DEC 21-22 CR 42 17361.0 SAB 32/D 65 28506.4 KDS-NR 110/24 BK 24 28583.6 KDS-DEC 21-22 CR 42 17363.0 SAB 32/MF/35 72 28507.4 KDS-NR 11.4 BK 24 28586.6 KDS-DEC 21-22 CR 42 17971.0 SABK 3 SAB 32/MF/35 72 28507.4 KDS-NR 11.4 BK 24 28586.6 KDS-DEC 21-25 CR 42 17971.0 SABK 6 SB 28517.4 KDS-Inlay 1 BK 24 28586.6 KDS-DEC 21-25 CR 42 17971.0 SABK 6 SB 28517.4 KDS-Inlay 1 BK 24 28586.6 KDS-DEC 21-25 CR 42 17973.0 SABK 11 SB 28519.4 KDS-Inlay 6 BK 24 28586.6 KDS-DEC 27-28 CR 42 17973.0 SABK 11 SB 28519.4 KDS-Inlay 6 BK 24 28590.6 KDS-DEC 27-28 CR 42 17974.0 SABK 16 SB 28524.4 KDS-Inlay 6 BK 24 28590.6 KDS-DEC 28-29 CR 42 17976.0 SABK 11 SB 28524.4 KDS-DE 1,5-2 BK 43 28591.6 KDS-DEC 30-30 CR 42 17976.0 SABK 18 59 28522.4 KDS-DE 3-18 K 43 28592.6 KDS-DEC 31-32 CR 42 17978.0 MF-SABK/SSCH/Z 63 28524.4 KDS-DE 3-8 BK 43 28594.6 KDS-DE 63-33 CR 42 17978.0 MF-SABK/SSCH/Z 63 28524.4 KDS-DE 8-8 BK 43 28594.6 KDS-DE 63-33 CR 42 17980.0 SABK 11 SABK 1					VDC CD 6/10 DV	2.4			
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17970.0 SABK 3 S8 28516.4 KDS-Inlay 1 BK 24 28587.6 KDS-DEG 25-26 GR 42 17971.0 SABK 6 S8 28517.4 KDS-Inlay 2 BK 24 28588.6 KDS-DEG 26-27 GR 42 17972.0 SABK 8 S8 28518.4 KDS-Inlay 4 BK 24 28588.6 KDS-DEG 27-28 GR 42 17973.0 SABK 11 S8 28519.4 KDS-Inlay 6 BK 24 28590.6 KDS-DEG 27-28 GR 42 17974.0 SABK 16 S8 28520.4 KDS-DE/B BK 43 28591.6 KDS-DEG 28-29 GR 42 17974.0 SABK 16 S8 28520.4 KDS-DE/B BK 43 28591.6 KDS-DEG 29-30 GR 42 17975.0 SABKM 12 S9 28521.4 KDS-DE 15-2 BK 43 28592.6 KDS-DEG 30-31 GR 42 17976.0 SABKM 18 S9 28522.4 KDS-DE 2-3 BK 43 28593.6 KDS-DEG 31-32 GR 42 17977.0 MF/D M4/Z 60 28523.4 KDS-DE 3-4 BK 43 28593.6 KDS-DEG 31-32 GR 42 17978.0 MF-SABK/35/Z 63 28524.4 KDS-DE 3-4 BK 43 28593.6 KDS-DEG 31-32 GR 42 17978.0 MF-SABK/35/Z 63 28524.4 KDS-DE 3-4 BK 43 28593.6 KDS-DE 2X4-5 GR 42 17980.0 SABKM 18/MF/35/Z 70 28526.4 KDS-DE 5-6 BK 43 28595.6 KDS-DE 2X4-5 GR 42 17980.0 SABKM 18/MF/35/Z 70 28526.4 KDS-DE 6-7 BK 43 28597.6 KDS-DE 4X2-3 GR 42 17982.0 SABKM 18/MF/35/Z 70 28526.4 KDS-DE 8-9 BK 43 28599.6 KDS-DE 4X3-4 GR 42 17982.0 SABKM 18/MF/35/Z 66 28528.4 KDS-DE 8-9 BK 43 28599.6 KDS-DE/1XASI GR 42 17984.0 SABKM 18/D M4/Z 64 28530.4 KDS-DE 11-12 BK 43 28600.4 KDS-DE(32-33 BK 43 17985.0 SABKM 18/D M4/Z 64 28530.4 KDS-DE 11-12 BK 43 28600.4 KDS-DE 32-33 BK 43 17985.0 SABKM 18/D M4/Z 64 28531.4 KDS-DE 12-13 BK 43 28600.4 KDS-Set 17/2 BK 24 22210.0 SABKM 22/D M4/Z 64 28531.4 KDS-DE 12-13 BK 43 28600.6 KDS-DE 13-13 BK 24 22210.0 SABKM 22/D M4/Z 64 28531.4 KDS-DE 11-12 BK 43 28600.6 KDS-DE 14-15 BK 24 22210.0 SABKM 22/D M4/Z 64 28531.4 KDS-DE 01-11 BK 43 28600.6 KDS-DE 14-15 BK 24 22210.0 SABKM 22/D M4/Z 64 28531.4 KDS-DE 01-13 B	17361.0	SAB 32/D	65	28506.4	KDS-SR 1-4 BK	24	28585.6	KDS-DEG 23-24 GR	42
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17983.0 SABKM 18/SSCH/Z 66 28529.4 KDS-DE 9-10 BK 43 28600.6 KDS-DE/2XASI GR 42 17984.0 SABKM 12/D M4/Z 64 28530.4 KDS-DE 10-11 BK 43 28601.4 KDS-DEG 32-33 BK 43 17985.0 SABKM 18/D M4/Z 64 28531.4 KDS-DE 11-12 BK 43 28602.4 KDS-Set 1-4 BK 24 27 28533.4 KDS-DE 12-13 BK 43 28603.4 KDS-Set 8/16 BK 24 27217.0 MF/D M4 60 28534.4 KDS-DEG/B BK 43 28606.4 KDS-Set 10/24 BK 24 27218.0 MF-SABK/SSCH 62 28536.4 KDS-DEG 14-15 BK 43 28607.6 KDS-DE 2x6,5 GR 42 27220.0 SABKM 22/D M4/Z 64 28537.4 KDS-DEG 15-16 BK 43 28607.6 KDS-DE 2x6,5 GR 42 27221.0 SABKM 29/D M4/Z 64 28538.4 KDS-DEG 16-17 BK 43 28608.4 KDS-DE 14-15 BK 43 27225.0 SABKM 18/SCH 66 28539.4 KDS-DEG 19-20 BK 43 28610.4 KDS-KV M20 BK 38 <td>17981.0</td> <td>SABKM 18/MF/35/Z</td> <td>70</td> <td>28527.4</td> <td>KDS-DE 7-8 BK</td> <td>43</td> <td>28598.6</td> <td>KDS-DE 4X3-4 GR</td> <td>42</td>	17981.0	SABKM 18/MF/35/Z	70	28527.4	KDS-DE 7-8 BK	43	28598.6	KDS-DE 4X3-4 GR	42
17984.0 SABKM 12/D M4/Z 64 28530.4 KDS-DE 10-11 BK 43 28601.4 KDS-DEG 32-33 BK 43 17985.0 SABKM 18/D M4/Z 64 28531.4 KDS-DE 11-12 BK 43 28602.4 KDS-Set 1-4 BK 24 17986.0 RMF/D M4/Z 61 28532.4 KDS-DE 12-13 BK 43 28603.4 KDS-Set 6/10 BK 24 28533.4 KDS-DEG 13-14 BK 43 28604.4 KDS-Set 8/16 BK 24 28534.4 KDS-DEG/B BK 43 28605.4 KDS-Set 8/16 BK 24 28534.4 KDS-DEG/B BK 43 28605.4 KDS-Set 10/24 BK 24 28534.4 KDS-DEG/B BK 43 28606.6 KDS-DE 4x4,5 GR 42 27217.0 MF/D M4 60 28535.4 KDS-DEG 14-15 BK 43 28606.6 KDS-DE 4x4,5 GR 42 27220.0 SABKM 22/D M4/Z 64 28537.4 KDS-DEG 15-16 BK 43 28607.6 KDS-DE 2x6,5 GR 42 27221.0 SABKM 29/D M4/Z 64 28537.4 KDS-DEG 16-17 BK 43 28608.4 KDS-DE 14-15 BK 43 27221.0 SABKM 29/D M4/Z 64 28538.4 KDS-DEG 18-19 BK 43 28609.6 KDS-DE 14-15 GR 42 27224.0 SABKM 18/SSCH 66 28539.4 KDS-DEG 18-19 BK 43 28610.4 KDS-KV M20 BK 38 27225.0 SABKM 18/SSCH 66 28540.4 KDS-DEG 19-20 BK 43 28611.4 KDS-KV M25 BK 38 27227.0 SABKM 22/SSCH 66 28540.4 KDS-DEG 20-21 BK 43 28611.4 KDS-KV M25 BK 38 27227.0 SABKM 29/SSCH 66 28542.4 KDS-DEG 21-22 BK 43 28613.4 KDS-KV M32 BK 38 27227.0 SABKM 29/SSCH 66 28544.4 KDS-DEG 22-23 BK 43 28614.4 KDS-KV M40 BK 39 27228.0 SABKM 29/SSCH/Z 66 28543.4 KDS-DEG 23-24 BK 43 28615.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-GM 20 BK 38 28616.4 KDS-GM 20 BK		SABKM 12/SSCH/Z	66			43		KDS-DE/1XASI GR	42
17985.0 SABKM 18/D M4/Z 64 28531.4 KDS-DE 11-12 BK 43 28602.4 KDS-Set 1-4 BK 24 17986.0 RMF/D M4/Z 61 28532.4 KDS-DE 12-13 BK 43 28603.4 KDS-Set 6/10 BK 24 28533.4 KDS-DE 13-14 BK 43 28604.4 KDS-Set 8/16 BK 24 28534.4 KDS-DEG/B BK 43 28605.4 KDS-Set 10/24 BK 24 27217.0 MF/D M4 60 28535.4 KDS-DEG/B BK 43 28606.6 KDS-DE 4x4,5 GR 42 27218.0 MF-SABK/SSCH 62 28536.4 KDS-DEG 15-16 BK 43 28607.6 KDS-DE 2x6,5 GR 42 27220.0 SABKM 22/D M4/Z 64 28537.4 KDS-DEG 16-17 BK 43 28608.4 KDS-DE 14-15 BK 43 27221.0 SABKM 29/D M4/Z 64 28538.4 KDS-DEG 17-18 BK 43 28609.6 KDS-DE 14-15 GR 42 27224.0 SABKM 12/SSCH 66 28539.4 KDS-DEG 18-19 BK 43 28610.4 KDS-KV M20 BK 38 27225.0 SABKM 18/SSCH 66 28540.4 KDS-DEG 19-20 BK 43 28611.4 KDS-KV M25 BK 38 27227.0 SABKM 22/SSCH 66 28541.4 KDS-DEG 20-21 BK 43 28613.4 KDS-KV M32 BK 38 27227.0 SABKM 29/SSCH 66 28542.4 KDS-DEG 21-22 BK 43 28613.4 KDS-KV M32 BK 38 27227.0 SABKM 29/SSCH 66 28542.4 KDS-DEG 22-23 BK 43 28613.4 KDS-KV M32 BK 38 27227.0 SABKM 29/SSCH 66 28542.4 KDS-DEG 22-23 BK 43 28613.4 KDS-KV M32 BK 38 27227.0 SABKM 29/SSCH 66 28542.4 KDS-DEG 22-23 BK 43 28613.4 KDS-KV M32 BK 38 27227.0 SABKM 29/SSCH 66 28542.4 KDS-DEG 22-23 BK 43 28613.4 KDS-KV M30 BK 39 27228.0 SABKM 29/SSCH/Z 66 28543.4 KDS-DEG 23-24 BK 43 28615.4 KDS-KV M50 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-GM 20 BK 38									
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27228.0 SABKM 22/SSCH/Z 66 28543.4 KDS-DEG 22-23 BK 43 28614.4 KDS-KV M50 BK 39 27229.0 SABK 3/MF/35 70 28544.4 KDS-DEG 23-24 BK 43 28615.4 KDS-KV M63 BK 39 27229.0 SABKM 29/SSCH/Z 66 28545.4 KDS-DEG 24-25 BK 43 28616.4 KDS-GM 20 BK 38		SABKM 22/SSCH	66	28541.4	KDS-DEG 20-21 BK	43	28612.4	KDS-KV M32 BK	38
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2/230.0 SADN 0/IVIF/33 /U 26340.4 ND3-DEG 23-20 BN 43 2861/.4 KD3-GM 25 BK 38									
	2/230.0	SADIN U/IVIT/33	70	20340.4	KD3-DEG Z3-Z0 BK	43	28617.4	VD2-CINI 52 RK	38

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28618.4	KDS-GM 32 BK	38	28686.0	BL-VA KDS-SR 10/24	55	,,	
28619.4	KDS-GM 40 BK	39	28700.4	KDS-SR-FB1/A BK	12		
28620.4	KDS-GM 50 BK	39	28701.4	KDS-SR-FB2/A BK	12		
28621.4	KDS-GM 63 BK	39	28702.4	KDS-SR-FB2/B BK	12		
28622.0	KDS BW 1	40	28703.4	KDS-SR-FB3/A BK	13		
28623.0	KDS-EMV-SAB 1-4	41	28704.4	KDS-SR-FB3/B BK	13		
28624.0	KDS-EMV-SAB 6/10	41	28705.4	KDS-SR-FB3/C BK	13		
28625.0	KDS-EMV-SAB 8/16	41	28706.4	KDS-SR-FB3/D BK	13		
28626.0	KDS-EMV-SAB 10/24	41	28707.4	KDS-SR-FB4/A BK	12		
28630.4	KES 13/24 BK	48	28708.4	KDS-SR-FB4/B BK	12		
28630.6	KES 13/24 GR	48	28709.4	KDS-SR-FB4/C BK	12		
28631.4	KES 14/24 BK	48	28710.4	KDS-SR-FB4/D BK	13		
28631.6	KES 14/24 GR	48	28711.4	KDS-SR-FB4/E BK	13		
28632.4	KES 16/24 BK	48	28712.4	KDS-SR-FB4/F BK	13		
28632.6	KES 16/24 GR	48	28713.6	KDS-DE-FB1/A GR	16		
28633.4	KES 16-1/24 BK	49	28714.6	KDS-DE-FB1/B GR	16		
28633.6	KES 16-1/24 GR	49	28715.6	KDS-DE-FB1/C GR	16		
28634.4	KES 17/24 BK	49	28716.6	KDS-DE-FB1/D GR	16		
28634.6	KES 17/24 GR	49	28717.6	KDS-DE-FB1/E GR	16		
28635.4	KES 20/24 BK	49	28718.6	KDS-DE-FB1/F GR	16		
28635.6	KES 20/24 GR	49	28719.6	KDS-DE-FB2/A GR	16		
28636.4	KES 21/24 BK	49	28720.6	KDS-DE-FB2/B GR	16		
28636.6 28637.4	KES 21/24 GR	49	28721.6	KDS-DE-FB2/C GR	16		
	KES 32/24 BK	49	28722.6	KDS-DE-FB2/D GR	16		
28637.6	KES 32/24 GR	49	28723.6	KDS-DE-FB2/E GR	16		
28640.4	KES-GB 13/24 BK	48	28724.6	KDS-DE-FB2/F GR	16		
28640.6	KES-GB 13/24 GR	48	28725.6	KDS-DE-FB3/A GR	16		
28641.4	KES-GB 14/24 BK	48	28726.6	KDS-DE-FB3/B GR	16		
28641.6	KES-GB 14/24 GR	48	28727.6	KDS-DE-FB4/A GR	16		
28642.4	KES-GB 16/24 BK	48	28728.6	KDS-DE-FB4/B GR	16		
28642.6	KES-GB 16/24 GR	48	28729.0	BL-VA KDS-FB1	55		
28643.4	KES-GB 16-1/24 BK	49	28734.0	BL KDS-FB1	55		
28643.6	KES-GB 16-1/24 GR	49	28735.0	BL KDS-FB2	55		
28644.4	KES-GB 17/24 BK	49	28736.0	BL KDS-FB3	55		
28644.6	KES-GB 17/24 GR	49	28737.0	BL KDS-FB4	55		
28645.4	KES-GB 20/24 BK	49	28741.0	BL-VA KDS-FB2	55		
28645.6	KES-GB 20/24 GR	49	28742.0	BL-VA KDS-FB3	55		
28646.4	KES-GB 21/24 BK	49	28743.0	BL-VA KDS-FB4	55		
28646.6	KES-GB 21/24 GR	49	28744.0	BL KES	54		
28647.4	KES-GB 32/24 BK	49	28745.0	BL KDS-FP2	54		
28647.6	KES-GB 32/24 GR	49	25746.0	BL KDS-KV M20	54		
28650.4	KES-R 13/24 BK	48	25747.0	BL KDS-KV M25	55		
28650.6	KES-R 13/24 GR	48	25748.0	BL KDS-KV M32	55		
28651.4	KES-R 14/24 BK	48	25749.0	BL KDS-KV M40	55		
28651.6	KES-R 14/24 GR	48	25750.0	BL KDS-KV M50	55		
28652.4	KES-R 16/24 BK	48	25751.0	BL KDS-KV M63	55		
28652.6	KES-R 16/24 GR	48	28752.0	BL-VA KES	54		
28653.4	KES-R 16-1/24 BK	49	28753.0	BL-VA KDS-FP2	54		
28653.6	KES-R 16-1/24 GR	49	28754.0	BL-VA KDS-KV M20	54		
28654.4	KES-R 17/24 BK	49	28755.0	BL-VA KDS-KV M25	55		
28654.6	KES-R 17/24 GR	49	28756.0	BL-VA KDS-KV M32	55		
28655.4	KES-R 20/24 BK	49	28757.0	BL-VA KDS-KV M40	55		
28655.6	KES-R 20/24 GR	49	28758.0	BL-VA KDS-KV M50	55		
28656.4	KES-R 21/24 BK	49	28759.0	BL-VA KDS-KV M63	55		
28656.6	KES-R 21/24 GR	49					
28657.4	KES-R 32/24 BK	49					
28657.6	KES-R 32/24 GR	49					
28660.4	KDS-FP 2x10/24 BK	30					
28661.4	KDS-FP 3x10/24 BK	30					
28664.3	KDS-FP-IVR OG	30					
28670.4	KDS-DE 15-16 BK	43					
28671.6	KDS-DE 15-16 GR	42					
28672.4	KDS-DE 4X5 BK	43					
28673.6	KDS-DE 4X5 GR	42					
28674.0	BL KDS-SR 1-4	54					
28675.0	BL KDS-SR 6/10	54					
28676.0	BL KDS-SR 8/16	54					
28677.0	BL KDS-SR 10/24	55					
28679.0	Hydraulic hand pump for	53					
	sheet-metal punch	33					
28681.4	KDS-DE 4x4,5 BK	43					
28682.4	KDS-DE 4x4,5 BK KDS-DE 2x6,5 BK	43					
28683.0	BL-VA KDS-SR 1-4	54					
28684.0	BL-VA KDS-SR 6/10	54					
28685.0	BL-VA KDS-SR 8/16	54					
20003.0	PE-AU KD3-2K 0/ 10	J 4					



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