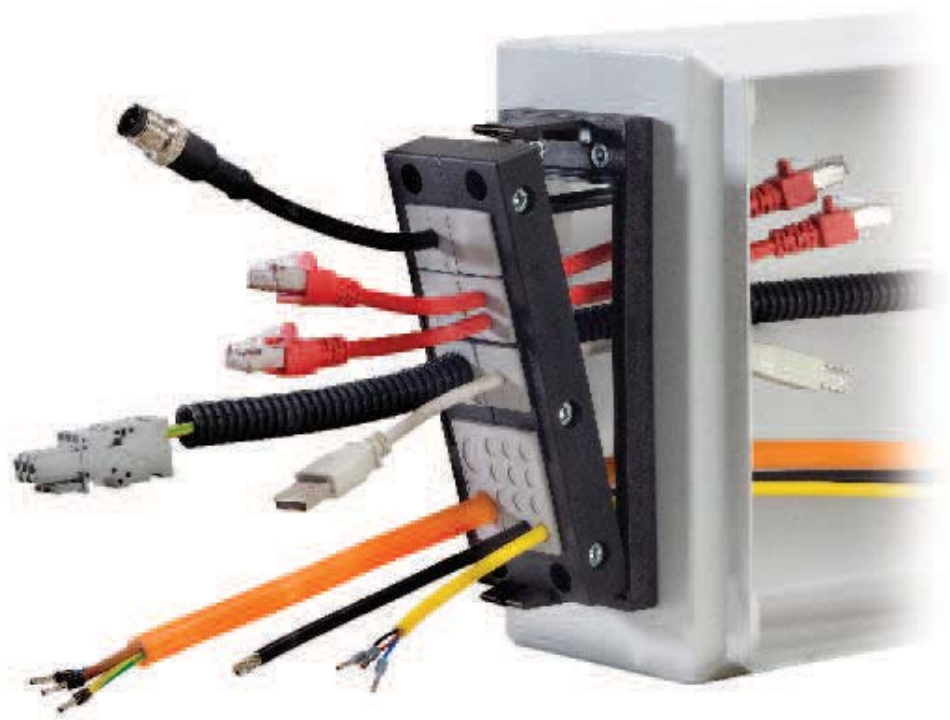


icotek®

Cable Entry Systems EMC Solutions



innovative
creative
technology

Product program

A company of the icotek group



Customer requests and our constant involvement in ever changing markets is motivation for icotek to continuously develop new and innovative products.

Our product offering will continue to grow in an effort to meet the needs of our customers.

Ideas move the world ...

Can't find the product that meets the demands of your application? Contact us and we will be more than happy to discuss a customized solution for you!

Our experienced managers and qualified personnel are in constant pursuit of customer satisfaction.

Trust our innovation.

Your comments and suggestions are important to us. We look forward to hearing from you.

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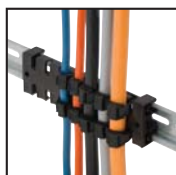
Product group 2



Cable entry systems
for standard cables

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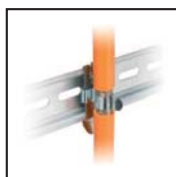
Product group 3



Strain relief systems

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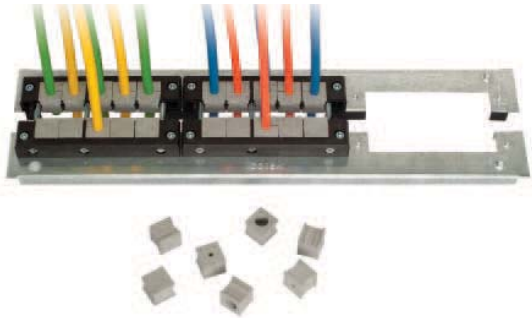
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Product group 5

Switch cabinet accessories



Product description

At a glance ...

A reason for increasing machine failures is dust and dirt inside of switch gears, especially if the equipment is placed in a contaminated environment.

Also contributing to machine failures is dust and dirt inside the switch cabinet.

Conventional cable entry systems like foam rubber get brittle over time. Other systems fail by being very limited in the maximum diameter.

Benefits ...

1. Flexible

For mounting cable entry systems with pre-terminated and non pre-terminated cables there are several designs of base plates and flange plates available.

2. Fast and easy assembly

The base plates are shipped ready for assembly. Threads incorporated in the base plates provide quick and easy installation.

3. Secure hold

Strain relief and a tight seal is incorporated in the system.

4. Easy to maintain

Due to the split of the systems switch cabinets can be equipped with these system subsequently without having to disconnect the cables. Just build "around" the running system.

Product group 5

Switch cabinet accessories

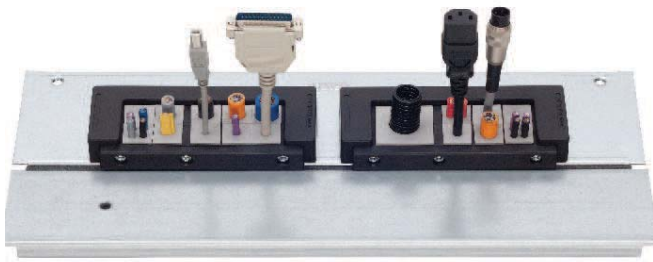
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KDR - ESR

Base plate with slide-frame



KDR-ESR | Assembly

Product description

The KDR-ESR is a one-piece base plate to be assembled on cabinet bases. Slides-frames for the KEL cable entry frames are already pre-assembled. After fitting all cables into the KEL frames, they are easily and quickly inserted into the slide frames and latched. During maintenance, the KEL frames are removed without tools from the slide frames. Due to the combination KDR|ESR and KEL cable entry frames, a rating of IP 54 is achieved (with correct selection of cable inserts).

Advantages and notes

- Easy assembly and removal
- During assembly, almost the whole base of the enclosure can be used for installation of cables.
- Even large connectors can be installed easily.
- Retrofitting possible without disconnecting of cables. All can be built around the cables. No production downtimes.
- No additional sheet metal work for the user
- The base plate KDR 2 is designed for Rittal enclosures TS8. Other sizes can be supplied on request.

Specification

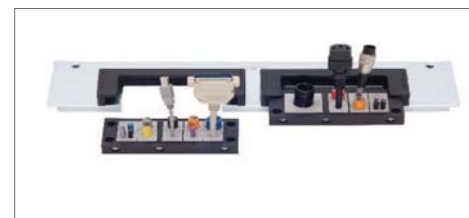
Material	Base plate: Steel, zinc-plated
Flame class	KDR-ESR Frame: Polyamide
Protection class	UL-94 Vo, self-extinguishing
Temperature Properties	IP 54, with gasket and correct selection of the cable inserts
	- 40°C to + 90°C (static)
	halogen-free, silicone-free

Accessories

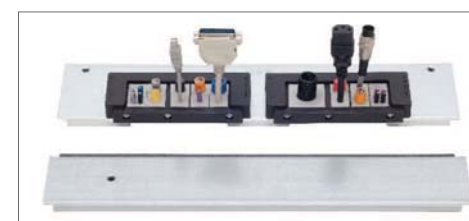
KEL 24/ KEL 16 Cable entry frames	Page 6 7
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1
The base plate is fixed in the cabinet floor. The KEL cable entry frames are fitted.



2
The KEL cable entry frames are screwed together after fitting.



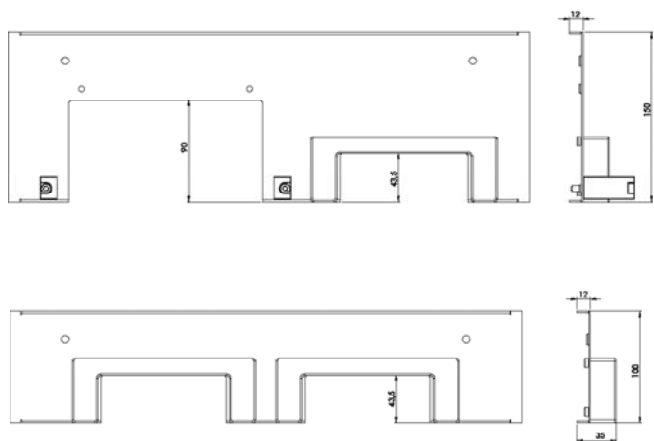
3
Afterwards the KEL frames are pushed into the slide-frames and latched there.



4
Finally, the middle base plate which is part of the standard cabinet, moves together with the KDR-ESR plates.

KDR - ESR

Base plate with slide-frame

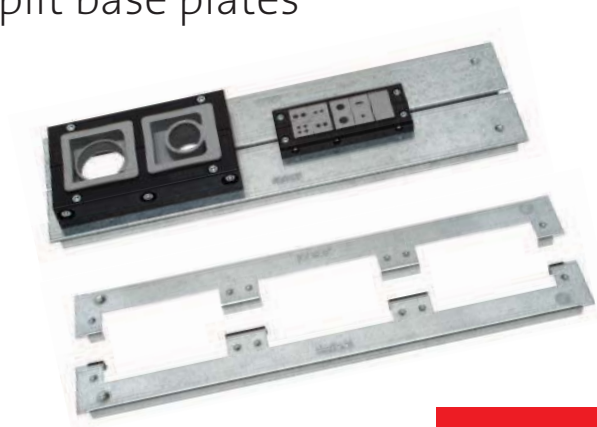


Control cabinet type	Control cabinet width	Total length base plate	Sight size of base plate opening	No. of possible cable entries				Order No.
				Jumbo 1	Jumbo 2	KEL 16 ...	Kel 24 ...	
TS8	600 mm	458 mm	436 mm	-	-	-	2	43079
	600 mm	458 mm	436 mm	-	1	-	1	43070
	600 mm	458 mm	436 mm	1	-	2	-	43071
TS8	800 mm	658 mm	636 mm	-	-	1	3	43080
	800 mm	658 mm	636 mm	1	-	-	3	43072
	800 mm	658 mm	636 mm	-	1	-	2	43073
TS8	1000 mm without division bar	858 mm	836 mm	-	-	-	5	43081
	1000 mm without division bar	858 mm	836 mm	1	-	-	4	43074
	1000 mm without division bar	858 mm	836 mm	-	1	-	3	43075
TS8	1000 mm with division bar	420 mm	398 mm	-	-	-	2	43082
	1000 mm with division bar	420 mm	398 mm	1	-	-	1	43076
	1000 mm with division bar	420 mm	398 mm	-	1	-	1	43077
TS8	1200 mm*	518 mm	496 mm	-	-	-	3	43083
	1200 mm*	518 mm	496 mm	1	-	-	2	43078
	1200 mm*	518 mm	496 mm	-	1	-	1	43084

* in case both fields of the control cabinet are equipped, 2 complete split base plates are necessary.

KDR 2

Split base plates



KDR 2 | Split base plates

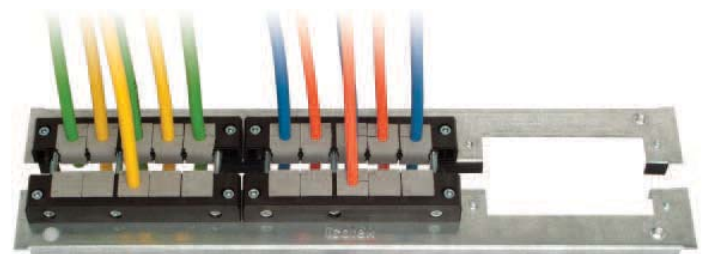
Product description

Split, 2-part base plates KDR 2 with pre-cut holes for KEL and KEL-JUMBO cable entry systems.

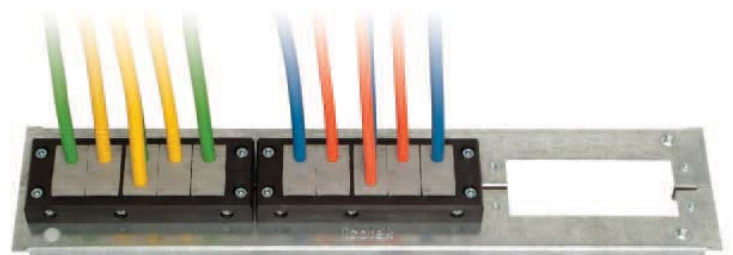
Integrated screw holes provide quick and easy installation of KEL frames.

Advantages and notes

- During assembly, almost the whole base of the enclosure can be used for installation of cables.
- Even large connectors can be installed easily.
- Retrofitting possible without disconnecting of cables. All can be built around the cables. No production downtimes.
- No additional sheet metal work for the user
- Cut-outs, which are no longer required, are covered with metal blind plates Type BPM.
- The base plate KDR 2 is designed for Rittal enclosures TS8. Other sizes can be supplied on request.



When the cable entry frames are assembled, the KDR base plates move together for a tight, secure hold of the cable entry systems.



Specification

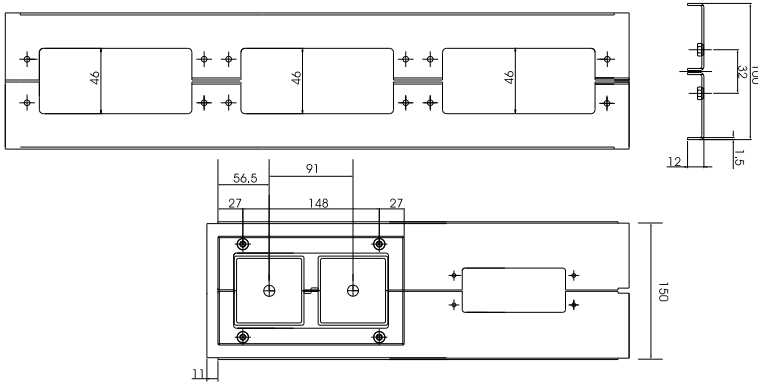
Material **Steel, zinc-plated**

Accessories

KEL 24 Cable entry frames	Page 6
KEL-JUMBO Cable entry frames	Page 34
BPM Blind plates metal	Page 111

The frame-parts with inserts have to be built up before final assembly, i.e. before screwing the system together. Screwing of the cable entry frames tightens both parts of the split base plate.

KDR 2 Split base plates



Control cabinet type	Control cabinet width	Total length base plate	Sight size of base plate opening	No. of possible cable entries			Order No.
				Jumbo 1	Jumbo 2	Kel 24 ...	
TS 8	600 mm	458 mm	436 mm	-	-	3	42924
				1	-	2	42953
				-	1	1	42941
TS 8	800 mm	658 mm	636 mm	-	-	4	42922
				1	-	3	42954
				-	1	2	42945
TS 8	1000 mm without division bar	858 mm	836 mm	-	-	5	42923
				1	-	4	42955
				-	1	3	42952
TS 8	1000 mm with division bar	420 mm	398 mm	-	-	2	42958
				1	-	1	42957
				-	1	1	42959
TS 8	1200 mm *	518 mm	496 mm	-	-	3	42920
				1	-	2	42956
				-	1	1	42943

* in case both fields of the control cabinet are equipped, 2 complete split base plates are necessary.

KDR

Cable entry frame



KDR | Cable entry system

Product description

The KDR frame system is a perfect system for installation and sealing of pre-terminated cables.

The frame system is mounted into the control panel and is sealed by putting the sheet metals together. Subsequent alteration of the number of cables or of the cable diameters is very simple.

The KDR frame system is used, where multiple cables are installed, e.g. on cabinets, walls of machine tools, control panels, flexible for bottom-, cover- and side walls.

Function

Pre-fabricated cables and/ or hoses can be installed through the frame mounted at the bottom of the cabinet.

No extra components are necessary for installation of cables.

The inserts assembled in the cable entry frames guarantee strain relief of the cables (observe the correct selection of insert according to cable diameter).



Advantages

- Perfect transition of KDR frame and frame of the cabinet
- Installation of pre-terminated cables through the bottom of the control cabinet
- Suitable for any switch- and control cabinet



Specification

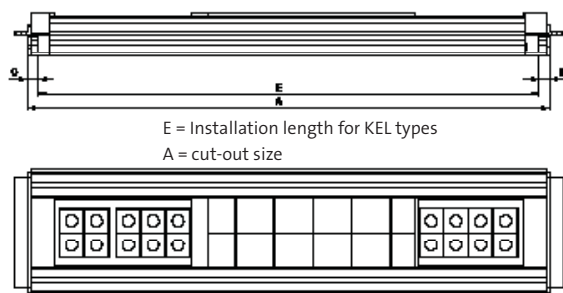
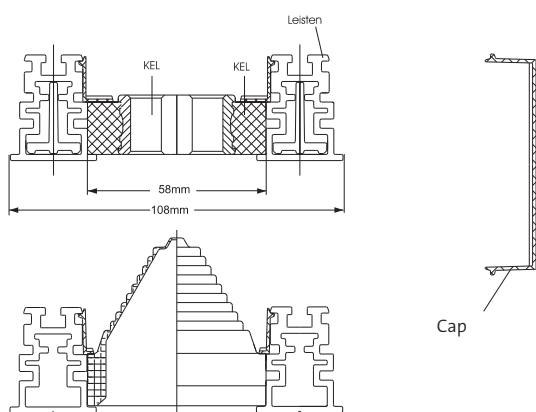
Material Aluminium

Accessories

KEL Cable entry frames

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KDR Cable entry frame



E = Installation length for KEL types
A = cut-out size

Type	Order No.	Size	Length
------	-----------	------	--------

KEL - R 24 10	43240	24	147 mm
KEL - R 24 7	43247	24	147 mm
KEL - R 24 5	43245	24	147 mm
KEL - R 24 4	43244	24	147 mm
KEL - R 16 8	43168	16	120 mm
KEL - R 16 5	43165	16	120 mm
KEL - R 16 4	43164	16	120 mm
KEL - R 16 2	43162	16	120 mm
KDR	44xxx		xxx mm
KT - Uni	43100	∅ 6 -40 mm	58 mm
Cap	43150		172 mm
End piece	43160		2 pieces

KDR ordering information

When ordering KDR cable entry frame, please inform us about:

A = cut-out size

Example: A = 999 mm equals KDR 44999

total length can be equipped as desired with any of the types see table on the left.

Included in delivery:

- 1x KDR - frame by length
- 2x end pieces

FP

Flanged plates



Description

Product description

We supply complete flanged plates FP with cut-outs 112 x 36 mm for enclosures of the AE series. The cut-outs, as well as the drilling template, conform to the standard cut-outs for 24-pole industrial connectors. All flanged plates are RAL 7035 powder-coated. Please use the gaskets of the standard plates. The gaskets and screws are scope of delivery of the enclosures.

We recommend to fasten the cable entry systems with a torque of 1.5 – 2.0 Nm.

Advantages

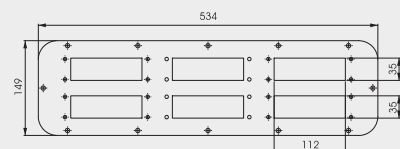
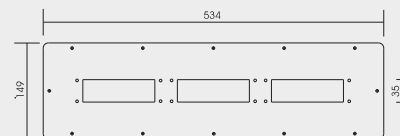
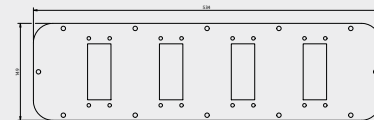
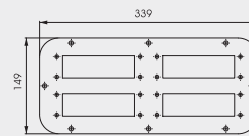
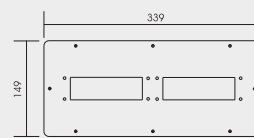
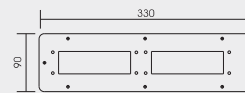
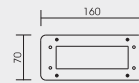
- No expensive extra sheet metal work is required
- High packing density is achieved by using KEL, KEL-DPZ or KEL-DP
- Reduce labor costs by using cable entry systems KEL, KEL-DPZ or KEL-DP compared to the assembly of conventional cable glands

Specification

Material **Steel, powder-coated**

Accessories

KEL Cable entry frames	Page 6 7
KEL-SNAP Frames	Page 17
KEL-QTA Cable entry frames	Page 38
KEL-DPZ Cable entry plates	Page 44 45
KEL-DP Cable entry plates	Page 50
Blind plates	Page 110



FP Flanged plates



Type	Order No. RAL 7035	Flanged plates fit for:	Size FP	Fits for (e.g. for Rittal with RAL 7032 RAL 7035)
FP - AE 160 70 mm Version with 1 cut-out	43836	KEL-DP 24 KEL-QTA 24	1	AE 1032 AE 1035
FP - AE 330 90 mm Version with 2 cut-outs	43838	KEL-DP 24 KEL-QTA 24	3	AE 1030 AE 1031 AE 1038 AE 1380
FP - AE 339 149 mm Version with 2 cut-outs	43840	KEL 24 KEL-SNAP 24 KEL-DPZ 24 KEL-DP 24 KEL-QTA 24	4	AE 1037 CS 9751.125 AE 1045 CS 9751.145 AE 1050 CS 9751.165 AE 1057 CS 9752.125 AE 1100 AE 1110 TP 6710 AE 1114 TP 6712 AE 1130 TP 6714 AE 1213 TP 6716 AE 1338 AE 1350
FP - AE 339 149 mm Version with 4 cut-outs	43846	KEL 24 KEL-DPZ 24 KEL-DP 24 KEL-QTA 24	4	
FP - AE 534 149 mm Version with 4 cut-outs KEL 16	43871	KEL 16 KEL-SNAP 16	5	AE 1039 EL 1919 AE 1054 EL 1926 AE 1055 AE 1060 IN 1076.290 AE 1073 AE 1076 TP 6711 AE 1077 TP 6713 AE 1090 TP 6715 AE 1180 TP 6717 AE 1260 AE 1280 AE 1339 AE 1360 AE 1376 AE1958
FP - AE 534 149 mm Version with 3 cut-outs	43842	KEL 24 KEL-SNAP 24 KEL-DPZ 24 KEL-DP 24 KEL-QTA 24	5	
FP - AE 534 149 mm Version with 6 cut-outs	43848	KEL 24 KEL-DPZ 24 KEL-DP 24 KEL-QTA 24	5	

FP

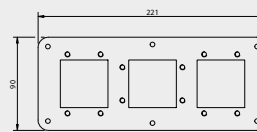
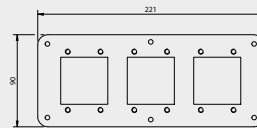
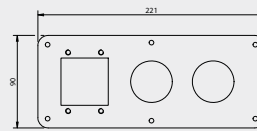
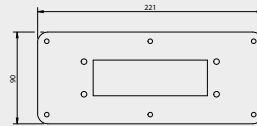
Flanged plates



Description

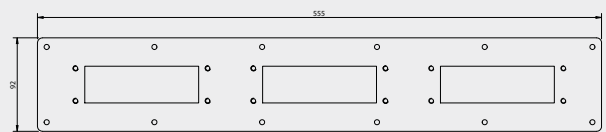
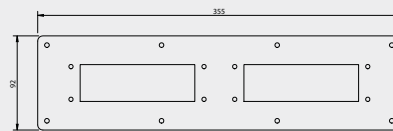
Plates for terminal boxes

The FP flanged plates type KL, designed to fit the Rittal KL series terminal boxes, are installed in combination with a cable entry system for either pre-terminated or standard cables. FP flanged plates are pre-cut, pre-drilled and painted for easy and quick installation of Icotek cable routing products. We recommend to fasten the cable entry systems with a torque of 1.5 – 2.0 Nm.



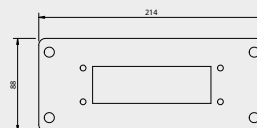
Plates for bus enclosures

The FP flanged plates type BG, designed to fit the Rittal BG series enclosures, have 3 cut-outs that match the dimensions of the standard cut-outs for the 24-pole industrial connectors. These flanged plates are installed in combination with a cable entry system for either pre-terminated cables (KEL-DPZ or KEL-DP) or standard cables (KEL 24). We recommend to fasten the cable entry systems with a torque of 1.5 – 2.0 Nm.



Specification

Material **Steel, powder-coated**



Accessories

- KEL 24/ KEL B Cable entry frames Page 6 | 9
- KEL-SNAP Frames Page 17
- KEL-QTA Cable entry frames Page 38
- KEL-DPZ Cable entry plates Page 44 | 45
- KEL-DP Cable entry plates Page 50
- Blind plates Page 110 | 111

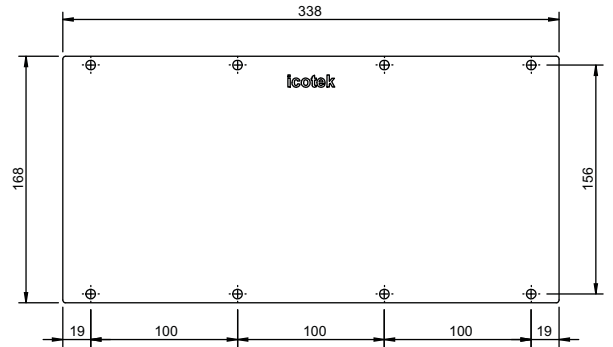
FP Flanged plates



Type	Order No. RAL 7035	Flanged plates fits for:	Size FP.	Fits for (e.g. for Rittal with RAL 7032 RAL 7035)
FP - KL 221 90 mm	43834	KEL 24 KEL-SNAP 24 KEL-DPZ 24 KEL-DP 24	2	Terminal boxes Type KL
FP - KL 221 90 mm - A Version with 3 cut-outs	43852	KEL-B KEL-SNAP B KEL-DPZ-B KEL-DPZ 50 KEL-DP 50	2	Terminal boxes Type KL
FP - KL 221 90 mm - B Version with 3 cut-outs	43854	Only for use with 2x KEL-SNAP B and 1x KEL-DPZ B	2	Terminal boxes Type KL
FP - KL 221 90 mm - C Version with 3 cut-outs	43856	KEL-B KEL-DPZ-B	2	Terminal boxes Type KL
FP - BG 355 92 mm Version with 2 cut-outs	43866	KEL 24 KEL-SNAP 24 KEL-DPZ 24 KEL-DP 24	-	BG 1558.210
FP - BG 555 92 mm Version with 3 cut-outs	43865	KEL 24 KEL-SNAP 24 KEL-DPZ 24 KEL-DP 24	6	BG 1050.900 BG 1559.510 IN 1510.280
FP - FL 21 Version with 1 cut-out	43832	KEL 24 KEL-SNAP 24 KEL-DPZ 24 KEL-DP 24	-	Fibox plates

MP

Module plates



Product description

The module plates have cutouts for fixing the KEL range cable entry systems KEL 24, KEL-JUMBO, KEL-DPF, KEL-JUMBO flex and KEL-ULTRA flex. The module plates can be fixed on the following positions:

- Separation plates
- Closed bottom of the switch box
- 25 mm breadboard of the switch box
- 25 mm breadboard bars (Rittal TS System)

The module plate without cutouts Order-No. 43882 (blind plate) is designed for closing unused cutouts. This module plate can even be used for self-made cutouts.

The shipment includes a suitable gasket.

Specification

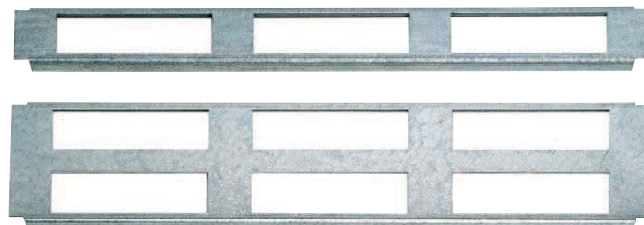
Material **Steel, zinc-plated**
 Article **43883 Aluminium**
 Dimension **338 x 168 x 2 mm**

Accessories

- KEL 24 Cable entry frames Page 6
- KEL-SNAP SNAP frames Page 17
- KEL-JUMBO Cable entry frames Page 34
- KEL-DPF Cable entry inserts Page 53
- KEL-JUMBO flex Cable entry ins. Page 54
- KEL-ULTRA flex Cable entry ins. Page 55
- Blind plates Page 110 | 112

Description	Type	Order No.	Fits for
	MP 0	43882	Module plate, blind
	MP 1	43891	3x KEL 24 x
	MP 2	43890	4x KEL 24 x
	MP 3	43886	1x KEL-JUMBO 1 1x KEL-JUMBO 2
	MP 4	43888	2x KEL-JUMBO 1
	MP 5	43887	2x KEL 24 x 1x KEL-JUMBO 1
	MP 6	43883	5x cut-out M50 for KEL-DPF or KEL-DPZ
	MP 7	43889	Cut-out 3x KEL-JUMBO flex
	MP 8	43894	Cut-out 2x KEL-ULTRA flex

KDR 1 Base plates

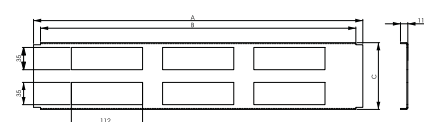
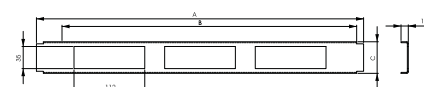


Contr. cabinet width TS 8	Total length base plate A	Sight size base plate opening	Width C	No. of possible cable entries KEL-DP 24 or KEL-QTA 24	Order No.	
600 mm	458 mm	436 mm	50 mm	one-row	3	43028
			105 mm	two-row	6	43012
800 mm	658 mm	636 mm	50 mm	one-row	4	43024
			105 mm	two-row	8	43008
1.000 mm with division bar	420 mm	398 mm	50 mm	one-row	2	43018
			105 mm	two-row	4	43006
1.000 mm without division bar	858 mm	836 mm	50 mm	one-row	5	43016
			105 mm	two-row	10	43004
1.200 mm	518 mm	496 mm	50 mm	one-row	3	43020
			105 mm	two-row	6	43000

Product description

For routing a large amount pre-terminated non assembled cables (especially with a diameter up to 34 mm), one-piece base plates Typ KDR1 can be used.

When assembling the KEL-DP by directly pushing it into the base plate, a reduction of labor costs are achieved.



Specification

Material **Steel, zinc-plated**

Accessories

KEL-QTA Cable entry frames **Page 38**
 KEL-DP Cable entry plates **Page 50**

BPK

Blind plates, plastic



Product description

Blind plates to close cutouts for standard 10-pole / 16-pole / 24-pole industrial connectors.

Plastic blind plates are available in two different versions:

Type BPK-R: Blind plates for SNAPPING into metal sheet plates up to a thickness of 1.5 mm

Type BPK: Blind plates for screw connection

Advantages

- Fast mounting of the blind plates BP-R range by SNAPPING into the cutout
- Integrated circular sealing

Specification

Material	Polyamide
Flame class	BPK-R: UL-94 V0 BPK: UL-94 V2
Temperature Properties	- 30°C to + 140°C (static) halogen-free, silicone-free

Type	Order No.	Blind plate for cut-out of KEL ...	Dimensions	PU
BPK 10	42015	KEL 10	103 x 52 mm	10
BPK - R 16	42006	KEL 16	120 x 55 mm	10
BPK 16	42016	KEL - Quick 16	124 x 52 mm	
BPK - R 24	42008	KEL 24	147 x 55 mm	10
BPK 24	42024	KEL - Quick 24	150 x 52 mm	
BPK - JFX	42620	KEL-Jumbo flex	88 x 88 mm	5

BPM

Blind plates, metal



Type	Order No.	Blind plate for KEL cut-out	Dimensions	PU
BPM - B	42013	KEL - B KEL - Quick B	75 x 58 mm	10
BPM - 10	42014	KEL 10	99 x 58 mm	10
BPM - FG B	42012	KEL - FG B	80 x 58 mm	10
BPM - 16	42025	KEL 16 KEL - Quick 16	118 x 56 mm	10
BPM - 24	42027	KEL - 24 KEL - Quick 24	145 x 56 mm	10
BPM - 24 20	42028	KEL - 24 xx MT	147 x 102 mm	1
BPM - JUMBO 1	42030	KEL - JUMBO 1	116 x 110 mm	1
BPM - JUMBO 2	42032	KEL - JUMBO 2	200 x 116 mm	1
BPM - ULTRA	42633	KEL-ULTRA flex	???? x ????	1

Product description

Blind plates to close cutouts for standard 10-pole / 16-pole / 24-pole industrial connectors.

Gasket is part of delivery.

Specification

Material Steel, zinc-plated
Width 2 mm

BPM - SNAP

Blind plates for KEL-SNAP frames



Product description

Blind plate BPM-SNAP to close cut-outs of pre-assembled KEL-SNAP frames.

A SNAP frame can be closed, e.g. during transport to avoid entry of dust, as long as a KEL frame is not mounted.

The BPM-SNAP blind plate is simply SNAPPED on the KEL frame. There is no tool needed to remove it.

Specification

Material Steel, zinc-plated

Type	Order No.	Blind plate fits for	Dimensions	PU
BPM - SNAP B	42034	KEL - SNAP B4	57 x 71 mm	10
BPM - SNAP 10	42035	KEL - SNAP 10	57 x 99 mm	10
BPM - SNAP 16	42036	KEL - SNAP 16	57 x 118 mm	10
BPM - SNAP 24	42037	KEL - SNAP 24	57 x 146 mm	10

Accessories

KEL-SNAP frames

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KLKB / KLB

Cable ties with hook-and-loop fastener



Type	Size	Order No.	PU
KLKB 200 x 7 bk	200 x 7 mm	61021	100
KLKB 200 x 13 bk	200 x 13 mm	61022	100
KLKB 230 x 13 bk	230 x 13 mm	61023	100
KLKB 300 x 17 bk	300 x 17 mm	61024	100
KLB 10 bk	10 mm	61011	25 m
KLB 15 bk	15 mm	61012	25 m
KLB 20 bk	20 mm	61013	25 m
KLB 25 bk	25 mm	61014	25 m

Product description

Cable ties with hook-and-loop fastener are a more and more common fixing mode for cables. The cable ties with hook-and-loop fastener are used instead of standard cable ties, because they can be easily closed and opened several times. They are gently to cables, especially if there are vibrations.

Cable ties with hook-and-loop fastener are available as ready-made cable ties (KLKB) in four sizes or as continuous tie on a roll (KLB) in four widths.

Advantages

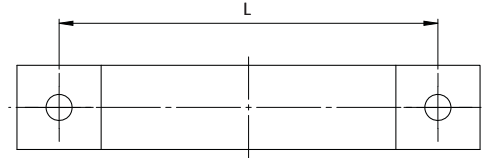
- cable ties with hook-and-loop fastener are re-usable
- adaptable
- the cable tie material is gentle on cables, especially if there are vibrations

Specification

Material	Polypropylene + Velour PA
Colour	black
Flame class	UL-94 V2,
Temperature	- 30°C to + 80°C

MB

Earthing tapes



Product description

Manufactured with highly flexible E-Cu stranded wires with tin-coated ends or connecting end pads made of tinned copper strips, see material specification below.

The minimum transition and connecting resistance makes them perfectly suitable for use as earthing tapes.

Advantages

- Available in various lengths and cross-sections
- Cost-effective
- Low transition impedances

Specification

Material 1 Cu-ETP with connecting end pads made of tinned copper strips

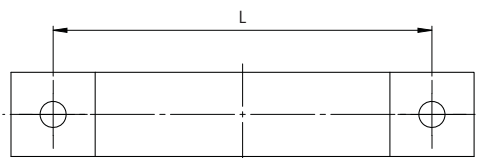


Material 2 Solderless pressed E-Cu with tin-coated ends



Type	Order No.	Material	Length L [mm]	Cross-section mm ²	Hole size	PU
MB 100 6 M6	32700	1	100	6	M6	1
MB 150 6 M6	32701	1	150	6	M6	1
MB 200 6 M6	32702	1	200	6	M6	1
MB 300 6 M6	32703	1	300	6	M6	1
MB 400 6 M6	32704	1	400	6	M6	1
MB 500 6 M6	32705	1	500	6	M6	1
MB 100 10 M6	32730	1	100	10	M6	1
MB 100 10 M8	32731	1	100	10	M8	1
MB 150 10 M8	32732	1	150	10	M8	1
MB 200 10 M6	32650	2	200	10	M6	1
MB 200 10 M6	32733	1	200	10	M6	1
MB 200 10 M8	32734	1	200	10	M8	1
MB 300 10 M6	32665	2	300	10	M6	1
MB 300 10 M6	32735	1	300	10	M6	1
MB 300 10 M8	32736	1	300	10	M8	1
MB 400 10 M6	32737	1	400	10	M6	1
MB 400 10 M8	32738	1	400	10	M8	1
MB 500 10 M6	32739	1	500	10	M6	1
MB 100 16 M6	32760	1	100	16	M6	1
MB 100 16 M8	32761	1	100	16	M8	1
MB 150 16 M6	32762	1	150	16	M6	1
MB 150 16 M8	32763	1	150	16	M8	1
MB 200 16 M6	32764	1	200	16	M6	1
MB 200 16 M8	32655	2	200	16	M8	1

MB Earthing tapes



Type	Order No.	Material	Length L [mm]	Cross-section mm²	Hole size	PU
MB 200 16 M8	32765	1	200	16	M8	1
MB 250 16 M8	32766	1	250	16	M8	1
MB 300 16 M6	32767	1	300	16	M6	1
MB 300 16 M8	32670	2	300	16	M8	1
MB 300 16 M8	32768	1	300	16	M8	1
MB 350 16 M8	32769	1	350	16	M8	1
MB 400 16 M8	32770	1	400	16	M8	1
MB 500 16 M8	32771	1	500	16	M8	1
MB 600 16 M8	32772	1	600	16	M8	1
MB 100 25 M10	32800	1	100	25	M10	1
MB 150 25 M10	32801	1	150	25	M10	1
MB 200 25 M8	32660	2	200	25	M8	1
MB 200 25 M8	32802	1	200	25	M8	1
MB 200 25 M10	32803	1	200	25	M10	1
MB 250 25 M8	32804	1	250	25	M8	1
MB 250 25 M10	32805	1	250	25	M10	1
MB 300 25 M8	32675	2	300	25	M8	1
MB 300 25 M8	32806	1	300	25	M8	1
MB 300 25 M10	32807	1	300	25	M10	1
MB 350 25 M10	32808	1	350	25	M10	1
MB 400 25 M8	32809	1	400	25	M8	1
MB 500 25 M8	32810	1	500	25	M8	1
MB 600 25 M8	32811	1	600	25	M8	1

Product description

Manufactured with highly flexible E-Cu stranded wires with tin-coated ends or connecting end pads made of tinned copper strips, see material specification below.

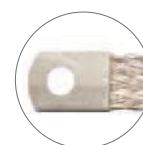
The minimum transition and connecting resistance makes them perfectly suitable for use as earthing tapes.

Advantages

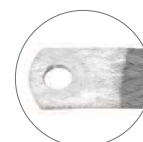
- Available in various lengths and cross-sections
- Cost-effective
- Low transition impedances

Specification

Material 1 Cu-ETP with connecting end pads made of tinned copper strips



Material 2 Solderless pressed E-Cu with tin-coated ends



WST

Split corrugated conduit



Product description

The WST is split and two piece corrugated conduit. Perfect for routing standard or pre-terminated cables in harsh environments.

In conjunction with KVT-W90, a high degree of flexibility is achieved. Numerous conduit sizes can be used thanks to the wide variety of split inserts offered (see KT inserts on pages 22 - 24).

The length of the WST split corrugated conduit is individually adjustable.

Advantages

- Containing pre-terminated cables, warranty of cable remains
- Retrofitting and maintenance carried out easily and quickly

Specification

Material	Polypropylene, black
Flame class	UL-94 V2
Protection class	IP 50
Temperature	- 40°C to + 105°C
Properties	halogen-free, UV-resistant

Accessories

SH Conduit clip

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Type	Order No.	Internal diameter	External diameter	Fits for:	Dimensions	Ring length
WST NW 10	31200	8.7 mm	13.6 mm	KT 13 KTRS 13	10 mm	50 m
WST NW 14	31210	12.5 mm	18.5 mm	KT 18	14 mm	50 m
WST NW 20	31220	19.5 mm	25.5 mm	KT 25	20 mm	50 m
WST NW 23	31230	24.2 mm	31.0 mm	KT 30	23 mm	50 m
WST NW 37	31240	31.0 mm	41.4 mm	KTMB - P	37 mm	25 m
WST NW 45	31250	42.7 mm	54.0 mm	KTMB - Q	45 mm	25 m
WST NW 70	31260	66.5 mm	79.8 mm	KTMB - S	70 mm	10 m

SH Conduit clip



Type	Order No.	Suitable conduit	Length [mm]	Width [mm]	Height [mm]	PU
SH 10	31300	NW 10	18.6	20.0	23.0	10
SH 14	31310	NW 14	24.0	20.0	26.1	10
SH 20	31320	NW 20	35.0	20.0	39.6	10
SH 23	31330	NW 23	42.5	20.5	44.5	10
SH 37	31340	NW 37	52.0	20.5	52.5	10
SH 45	31350	NW 45	66.2	20.5	66.3	10

Product description

Conduit clips are a one-piece location system to provide secure mounting points for corrugated conduit systems.

The clips are secured to their mounting position through a central mounting point with a hexagonal counter-bore.

Specification

Material	Polyamide, black
Flame class	UL-94 V2
Temperature	- 40°C bis + 120°C
Properties	halogen-free, silicone-free

Accessories

Corrugated conduit

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