

KEL-U 24 Cable entry frames







KEL-U 24 also available with V2A screws.



able with threaded bushings.



Split grommets

Product description

Split cable entry system for routeing pre-terminated cables providing a protection class of IP54. Routeing, sealing and providing strain relief for cable diameters from 2 to 34 mm. The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-U 24 frame matches exactly the cut-out dimensions for 24pole standard industrial connectors. Either a cutout of 36 mm or 46 mm in height can be chosen depending on the cables being routed.

Advantages

- Very easy assembly
- Warranty on pre-terminated cables remains
 Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- High stability, vibration proof

Specifications

Material	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct
	selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 112 mm / page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	118 - 120
KDR Base plates	136 - 145
FP Flanged plates	148 - 153
MP Module plates	146

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Ø 5,80

			small large		
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6	KEL-U 24 10	54241	10 -	10	
0	KEL-U 24 10 with V2A screws	54241.200	10 -	10	
-	KEL-U 24 <mark> </mark> 7	54247	6 1	10	
0	KEL-U 24 7 with V2A screws	54247.200	6 1	10	
-	KEL-U 24 4	54244	2 2	10	
0	KEL-U 244 with V2A screws	54244.200	2 2	10	

KEL-ER 24

Cable entry frames



KEL-ER also available with V2A screws.



up to NEMA

4X

EN 45545-2

cNus IP65

able with threaded bushings.



EN 45545-2 ECOLAB ROHS Made in Germany

Split grommets





Туре	Order No.	Grommets small large	PU	Description
KEL-ER 24/10 KEL-ER 24/10 with V2A screws	48241 48241.200	10 - 10 -	10 10	
KEL-ER 24 7 KEL-ER 24 7 with V2A screws	48247 48247.200	6 1 6 1	10 10	
KEL-ER 24 4 KEL-ER 24 4 with V2A screws	48244 48244.200	2 2 2 2	10 10	

Product description

Split cable entry system for routeing and sealing pre-terminated cables, providing a protection class of IP65 / up to NEMA 4X and strain relief for cable diameters from 2 to 16 mm (KT 2 - 15) and 16 to 34 mm (KT 16 - 34). The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-ER 24 frame matches exactly the cut-out dimensions for 24-pole standard industrial connectors.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Materia	Polyamide (PA)
Flame class	UL94-VO, self-extinguishing
Protection class	IP65, with gasket and correct
	selection of single grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 112 mm / page 176 - 177
Height KEL	17 mm
0	

Accessories

KT Cable grommets 38 **-** 40 KEL-EMC Cable collectors

118 - 120



KEL-U 16 Cable entry frames







Sp**l**it grommets



V2A screws.



KEL-U 16 on request also available with threaded bushings.

Product description

Split cable entry system for routeing pre-terminated cables providing a protection class of IP54. Routeing, sealing and providing strain relief for cable diameters from 2 to 34 mm. The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-U 16 frame matches exactly the cut-out dimensions for 16pole standard industrial connectors. Either a cutout of 36 mm or 46 mm in height can be chosen depending on the cables being routed.

Advantages

- Very easy assembly
- Warranty on pre-terminated cables remains
 Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- High stability, vibration proof

Specifications

Material	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct
	selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 86 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	118 - 120
KDR Base plates	136 - 145
FP Flanged plates	148 - 153







туре		small large	PU	
KEL-U 16 8	54168	8 -	10	
KEL-U 16 8 with V2A screws	54168.200	8 -	10	
KELLISCH.		.1.		
KEL-U 16 5	54165	4 1	10	
KEL-U 16 5 with V2A screws	54165.200	4	10	
KEL-U 16 2	54162	- 2	10	
KEL-U 16 2 with V2A screws	54162.200	- 2	10	
with V2A screws				



Cable entry frames



(2x)

Germany



KEL-ER also available with V2A screws.



able with threaded bushings. KEL-ER 16 8 48168 8|-10 \cap KEL-ER 16 8 48168.200 8|-10 with V2A screws Ø5 KEL-ER 16 5 48165 41 10 KEL-ER 16 5 48165.200 41 10 with V2A screv Ø5,8 KEL-ER 16 2 48162 -|2 10 KEL-ER 16 2 48162.200 -|2 10 with V2A screws Ø5,8





Product description

Split cable entry system for routeing and sealing pre-terminated cables, providing a protection class of IP65 / up to NEMA 4X and strain relief for cable diameters from 2 to 16 mm (KT 2 - 15) and 16 to 34 mm (KT 16 - 34). The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-ER 16 frame matches exactly the cut-out dimensions for 16-pole standard industrial connectors.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class	Polyamide (PA) UL94-Vo, self-extinguishing IP65, with gasket and correct selection of single grommets (certified according to DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 86 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets 38 - 40 KEL-EMC Cable collectors 118 - 120



KEL-U 10 Cable entry frames



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KEL-U 10 also available with V2A screws.

KEL-U 10 on request also available with threaded bushings.

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Description	Туре	Order No.	Grommets small large	PU	
	KEL-U 10 6 KEL-U 10 6 with V2A screws	54216 54216.200	6 - 6 -	10	
	KEL-U 10 3	54212	2 1	10	

Product description

Split cable entry system for routeing pre-terminated cables providing a protection class of IP54. Routeing, sealing and providing strain relief for cable diameters from 2 to 34 mm. The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-U 10 frame matches exactly the cut-out dimensions for 10-pole standard industrial connectors. Either a cut-out of 36 mm or 46 mm in height can be chosen depending on the cables being routed.

Advantages

- Very easy assembly
- Warranty on pre-terminated cables remains • Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- High stability, vibration proof

Specifications

Materia	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct
	selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 65 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	119 - 120



KEL-U 10 3 with V2A s

54212.200







KEL-ER also available with V2A screws.



KEL-ER on request also avail- Split gro able with threaded bushings.







Product description

Split cable entry system for routeing and sealing pre-terminated cables, providing a protection class of IP65 / up to NEMA 4X and strain relief for cable diameters from 2 to 16 mm (KT 2 - 15) and 16 to 34 mm (KT 16 - 34). The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-ER 10 frame matches exactly the cut-out dimensions for 10-pole standard industrial connectors.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class	Polyamide (PA) UL94-Vo, self-extinguishing
Protection class	IP65, with gasket and correct
	selection of single grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36 /46× 65 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets38 - 40KEL-EMC Cable collectors119 - 120

KEL-ER 10 6	48216	6 -	10	
KEL-ER 10 6 with V2A screws	48216.200	6 -	10	
KEL-ER 103	48212	2 1	10	
KEL-ER 10 3 with V2A screws	48212.200	2 1	10	



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KEL-U-B Cable entry frames



IP54



Split grommets



KEL-U-B also available with V2A screws.

KEL-U-B on request also available

with threaded bushings.

	Туре	Order No.	Grommets small large	PU	
	KEL-U-B4 KEL-U-B4 with V2A screws	54204 54204.200	4 - 4 -	10	
	KEL-U-B1	54206	-[1	10	
	KEL-U-B1 with V2A screws	54206.200	- 1	10	

Product description

Split cable entry system for routeing pre-terminated cables providing a protection class of IP54. Routeing, sealing and providing strain relief for cable diameters from 2 to 34 mm. The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-U-B frame matches exactly the cut-out dimensions of 46×46 mm measuring instruments.

Advantages

- Very easy assembly
- Warranty on pre-terminated cables remains • Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- High stability, vibration proof

Specifications

Material	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct
	selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	46 × 46 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	119 - 120
FP Flanged plates	150 - 151



KEL-ER-B Cable entry frames





KEL-ER also available with V2A screws.



able with threaded bushings.

Туре	Order No.	Grommets small large	PU	Description
KEL-ER-B4 KEL-ER-B4 with V2A screws	48204 48204.200	4 - 4 -	10	
KEL-ER-B1 KEL-ER-B1 with V2A screws	48206 48206.200	- 1 - 1	10	





Product description

Split cable entry system for routeing and sealing pre-terminated cables, providing a protection class of IP65 / up to NEMA 4X and strain relief for cable diameters from 2 to 16 mm (KT 2 - 15) and 16 to 34 mm (KT 16 - 34). The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly. The KEL-ER-B frame matches exactly the cut-out dimensions of 46 × 46 mm measuring instruments.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- Small cut-out, high packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class	Polyamide (PA) UL94-VO, self-extinguishing IP65, with gasket and correct selection of single grommets (certified according to DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	46 × 46 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets38 - 40KEL-EMC Cable collectors119 - 120



KEL-E

Cable entry frames





KEL-E also available with V2A screws. KEL-E on request also available with threaded bushings.

Product description

The split cable entry frames KEL-E are particularly suited for flat connectors. The small frame is ideal for applications with limited space.

For inserting cables up to 17 mm in diameter.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- Space saving shape
- Optimal for D-Sub connectors
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class	Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of cable grommets (certified according to DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 41
KEL-EMC Cable collectors	118 - 120









	Туре	Order No.	Cut-out [mm]	Grommets small large	PU	
	KEL-E2	42249	43 × 24	2 -	10	
	KEL-E2 with V2A screws	42249.200	43 × 24	2 -	10	
	KEL - E3	42258	65 × 24	3 -	10	
	KEL-E3 with V2A screws	42258.200	65 × 24	3 -	10	
	KEL-E4	42259	86 × 24	4 -	10	
_	KEL-E4 with V2A screws	42259.200	86 × 24	4 -	10	
	KEL-E5	42250	112 × 24	5 -	10	
5,80	KEL-E5 with V2A screws	42250.200	112 × 24	5 -	10	



KEL-ER-E Cable entry frames







Product description

Split cable entry system for routeing and sealing pre-terminated cables, providing a protection class of IP65 and strain relief for cable diameters from 2 to 16 mm (KT 2 - 15). It is particularly suited for flat connectors. The small frame is ideal for applications with limited space.

The new cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- Strain relief according to EN 50262 / 62444
- Space saving shape
- Optimal for D-Sub connectors
- Vibration proof

Specifications

Material	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP65, with gasket and correct
	selection of single grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Height KEL	17 mm

Accessories

KT Cable grommets 38 - 40 KEL-EMC Cable collectors

118 - 120



KEL-ER also available with V2A screws.

V2A anti-corrosive

Туре	Order No.	Cut-out [mm]	Grommets small large	PU	
KEL-ER-E2	48249	43 × 24	2 -	10	72.8
KEL-ER-E2 with V2A screws	48249.200	43 × 24	2 -	10	
KEL-ER-E3	48258	65 × 24	3 -	10	98,3 63
KEL-ER-E3 with V2A screws	48258.200	65 × 24	3 -	10	
					120 103
KEL-ER-E4	48259	86 × 24	4 -	10	
KEL-ER-E4 with V2A screws	48259.200	86 × 24	4 -	10	
KEL-ER-E5	48250	112 × 24	5 -	10	
KEL-ER-E5 with V2A screws	48250.200	112 × 24	5 -	10	<u>Ø5.80</u>



V2A anti-corrosive

KEL 24

Cable entry frames





Product description

The split cable entry frame KEL 24 matches exactly the cut-out dimensions of 24-pole standard industrial connectors.

The split grommet matching the cable diameter is placed around the cable and inserted into the cable entry frame.

Either a cut-out of 36 mm or 46 mm in height can be chosen depending on the cables being routed. This flexibility is perfect for pre-terminated cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct
	selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 112 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	118 - 120
KDR Base plates	136 - 145
FP Flanged plates	148 - 153
MP Module plates	146

KEL 24 also available with V2A screws.



KEL 24 on request also available with threaded bushings.

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Split grommets

KEL 16 8

KEL 16 8

KEL 16 5

KEL 16 5

KEL 16 4

KEL 16 4

KEL 16 2

KEL 16 2

with V2A screw

with V2A screws

with V2A screws

with V2A screw



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KEL 16 also available with V2A screws.

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42168.200

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42165.200

42164

42164.200

42162

42162.200



KEL 16 on request also available with threaded bushings.

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The split cable entry frame KEL 16 matches exactly the cut-out dimensions of 16-pole standard industrial connectors.

The split grommet matching the cable diameter is placed around the cable and inserted into the cable entry frame.

Either a cut-out of 36 mm or 46 mm in height can be chosen depending on the cables being routed. This flexibility is perfect for pre-terminated cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class	Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of cable grommets (certified according to DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 86 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	118 - 120
KDR Base plates	136 - 145
FP Flanged plates	148 - 153

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Ø5,8

Ø5,8





KEL 10

Cable entry frames



P54



Split grommets



KEL 10 also available with V2A screws.

KEL 10 on request also available with threaded bushings.

Product description

The split cable entry frame KEL 10 matches exactly the cut-out dimensions of 10-pole standard industrial connectors.

The split grommet matching the cable diameter is placed around the cable and inserted into the cable entry frame.

Either a cut-out of 36 mm or 46 mm in height can be chosen depending on the cables being routed. This flexibility is perfect for pre-terminated cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density, wide variety of frames and grommets
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Materia	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct
	selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	36/46 × 65 mm / Page 176 - 177
Height KEL	17 mm

Accessories

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	119 - 120

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Product description

The split cable entry frame KEL-B matches exactly the cut-out dimensions of 46 × 46 mm measuring instruments.

The split grommet matching the cable diameter is placed around the cable and inserted into the cable entry frame. For routeing cables and conduits up to 34 mm in diameter.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- Space saving shape
- Small cut-out, high packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class	Polyamide (PA) UL94-Vo, self-extinguishing
Protection class	IP54, with gasket and correct selection of cable grommets
	(certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Cut-out dimensions	46 × 46 mm / Page 176 - 177
Height KEL	17 mm

Accessories

38 - 42
28 - 29
119 - 120
150 - 151





Split grommets



KEL-B also available with V2A

KEL-B on request also available

V2A anti-corrosive



KEL 24-E Cable entry frames







KEL 24-E also available with V2A screws.



KEL 24-E on request available with threaded bushings.

Product description

The cable entry frame KEL 24-E offers a larger frame size for routeing a greater amount of cables, pipes or conduits.

The KEL24-E series are KEL 24 frames extended with an additional middle frame for routeing additional cables. Thus allowing a quick, easy and cost effective routeing solution for up to 60 cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- Very high packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class

Temperature

Cut-out dimensions

Properties

Height KEL

UL94-Vo, self-extinguishing IP54, with gasket and correct selection of cable grommets - 40°C to + 140°C (static) Halogen free, silicone free 66 × 112 mm / Page 176 - 177 17 mm

Polyamide (PA)

Accessories

KEL-SNAP Mounting frames	28 - 29
KT Cable grommets	38 - 42
KEL-EMC Cable collectors	118 - 120

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	KEL 24 15-E	42209	15 -	1
	KEL 24 15-E with V2A screws	42209.200	15 -	1
	KEL 24 12-E	42208	11 1	1
	KEL 24 12-E with V2A screws	42208.200	nþ	1
	KEL 24 9 - E	42207	7 2	1
	KEL 24 9-E with V2A screws	42207.200	7 2	1
	KEL 24 10-E	49056	10 -	1
© ©	KEL 24 10-E with V2A screws	49056.200	10 -	1

KEL 24-MT Cable entry frames



V2A anti-corrosive

KEL 24-MT also available with V2A screws.

KEL 24 8-MT with V2A screws

42221.200

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KEL 24-MT on request available with threaded bushings.



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Туре	Order No.	Grommets small large	PU	De
KEL 24 20-MT KEL 24 20-MT with V2A screws	42232 42232.200	20 - 20 -	1	
KEL 24/17-MT KEL 24/17-MT with V2A screws	42224 42224.200	16 1 16 1	1	
KEL 24/14-MT KEL 24/14-MT with V2A screws	42225 42225.200	12 2 12 2	1	
KEL 24/11-MT KEL 24/11-MT with V2A screws	42222 42222.200	8 3 8 3	1	
KEL 24 8- MT	42221	4 4	1	

Product description

The cable entry frame KEL 24-MT provides additional cable routeing possibilities.

The KEL 24-MT series are KEL frames extended with an additional middle frame for routeing additional cables. Thus allowing the quick, easy and cost effective routeing solution for up to 80 cables.

Advantages

- Warranty on pre-terminated cables remains Retrofitting and maintenance can be carried
- out easily and quickly
- Very high packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class

Temperature Properties Cut-out dimensions Height KEL

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of the cable grommets -40°C to + 140°C (static) Halogen free, silicone free 82 × 112 mm / Page 176 - 177 17 mm

Accessories

KEL-SNAP Mounting frames	28 - 29
KT Cable grommets	38 - 42
KEL-EMC Cable collectors	118 - 120

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KEL 24-2MT Cable entry frames



Product description

The KEL 24-2MT is our largest frame providing the ability to route and seal up to 120 cables.

The cable entry frames KEL 24-2MT series are KEL frames extended with two additional middle frames for routeing additional cables. Thus allowing the quick, easy and cost effective routeing solution for up to 120 cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried
- out easily and quickly
- High packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class

Temperature

Properties

Height KEL

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of the cable grommets -40°C to + 140°C (static) Halogen free, silicone free 126 × 112 mm / Page 176 - 177 17 mm

Accessories

Cut-out dimensions

KT Cable grommets38 - 42KEL-EMC Cable collectors118 - 120



Ø5,8

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Ø5,8

CNus IP54

GL



EN 45545-2 ECOLAB ROHS Made in Germany

KEL 24-2MT also available with V2A screws.

KEL 24-2MT on request available with threaded bushings.

	Туре	Order No.	Grommets small large	PU	
	KEL 24 30-2 MT	42234	30 -	1	
	KEL 24 30-2 MT with V2A screws	42234.200	30 -	1	
	KEL 24 27-2 MT	42233	26 1	1	
	KEL 24 27-2 MT with V2A screws	42233.200	26 1	1	
130 147					
	KEL 24 24-2 MT	42227	22 2	1	
	KEL 24 24-2 MT with V2A screws	42227.200	22 2	1	
130					
	KEL 24 21-2 MT	42226	18 3	1	
	KEL 24 21-2 MT with V2A screws	42226.200	18 3	1	
130 147					
	KEL 24 12-2 MT	42223	6 6	1	
	KEL 24 12-2 MT with V2A screws	42223.200	6 6	1	
130 147					

KEL 16-E Cable entry frames





KEL 16-E also available with V2A screws.



with threaded bushings.







Product description

The cable entry frame KEL 16-E offers a larger frame size for routeing a greater amount of cables, pipes or conduits.

The KEL16-E series are KEL 16 frames extended with an additional middle frame for routeing additional cables. Thus allowing a quick, easy and cost effective routeing solution for up to 48 cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- Very high packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class

Temperature Properties Cut-out dimensions Height KEL

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of cable grommets - 40°C to + 140°C (static) Halogen free, silicone free 66 × 86 mm 17 mm

Accessories

KT Cable grommets 38 - 42 KEL-EMC Cable collectors 118 - 120

		annan Liaige	
KEL 16 12-E	42141	12 -	1
KEL 16 12-E with V2A screws	42141.200	12 -	1
KEL 16 6-E	42140	4 2	1
KEL 16 6-E with V2A screws	42140.200	4 2	1

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KEL 16-MT Cable entry frames



Product description

The cable entry frame KEL 16-MT provides additional cable routeing possibilities.

The KEL 16-MT series are KEL 16 frames extended with an additional middle frame for routeing additional cables. Thus allowing the quick, easy and cost effective routeing solution for up to 64 cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried
- out easily and quickly
- Very high packing density
- Strain relief according to EN 50262 / 62444 Vibration proof

Specifications

Materia Flame class Protection class

Temperature

Properties Cut-out dimensions

Height KEL

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of the cable grommets -40°C to + 140°C (static) Halogen free, silicone free 82 × 86 mm

Accessories

K⊤ Cable grommets 38 **-** 42 KEL-EMC Cable collectors 118 - 120

17 mm



IP54

EXAMPLE ROHS Compliant Complex Com



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KEL 16-MT also available with V2A screws.

KEL 16-MT on request available with threaded bushings.

	I		1	
	Туре	Order No.	Grommets small large	PU
120 103				
	KEL 16 16-MT	42145	16 -	1
	KEL 16 16-MT with V2A screws	42145.200	16 -	1
	with v2A sciews	42145.200	101-	
<u>.8</u> 120				
	KEL 16 10-MT	42144	8 2	1
	KEL 16 10-MT with V2A screws	42144.200	8 2	1
120 103				
	KEL 164-MT	42143	- 4	1
O O		4-145		Ċ
	KEL 16 4-MT with V2A screws	42143.200	- 4	1



KEL 16-2MT Cable entry frames



Product description

The KEL 16-2MT is our largest frame providing the ability to route and seal up to 96 cables.

The cable entry frames KEL 16-2MT series are KEL 16 frames extended with two additional middle frames for routeing additional cables. Thus allowing the quick, easy and cost effective routeing solution for up to 96 cables.

Advantages

- Warranty on pre-terminated cables remains
- Retrofitting and maintenance can be carried out easily and quickly
- High packing density
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class

Temperature Properties Cut-out dimensions Height KEL

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of the cable grommets -40°C to + 140°C (static) Halogen free, silicone free 126 × 86 mm 17 mm

Accessories

K⊤ Cable grommets 38 **-** 42 KEL-EMC Cable collectors 118 - 120





KEL 16-2MT on request avail-able



V2A anti-corrosive

KEL 16-2MT also available

with V2A screws.

with threaded bushings.

Туре	Order No.	Grommets small large	PU	
KEL 16 24-2 MT KEL 16 24-2 MT with V2A screws	42149 42149.200	24 - 24 -	1	
KEL 16 12-2 MT KEL 16 12-2 MT with V2A screws	42148 42148.200	8 4 8 4	1	
KEL 16 6- 2 MT	42147	- 6	1	
KEL 16 6-2 MT with V2A screws	42147.200	- 6	1	

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С

С

KEL-FG A Flange enclosure





ECOLAB ROHS Made in Germany

IP54

GL



Split grommets

10|-

10|-

1

1

42320

42320.200

Product description

The cable entry frames KEL-FG are suited for installation, sealing and strain relief of pre-terminated cables and conduits at an angle of 90° to the cabinet.

For routeing cables and conduits up to 34 mm in diameter.

Advantages

- Installation at an angle of 90° to the cabinet
- Mechanical protection of cable directly at the place of entry
- Protection against water spray and drips
- Warranty on pre-terminated cables remains
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Materia
Flame class
Protection class

Temperature Properties

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of the cable grommets - 40°C to + 140°C (static) Halogen free, silicone free 36 × 112 mm, Page 176 - 177

Accessories

Cut-out dimensions

KT Cable grommets	38 - 42
KEL-SNAP Mounting frames	28 - 29
KEL-EMC Cable collectors	118 - 120













KEL-FG B Flange enclosure



KEL-FG also available with V2A screws.

KEL-FG B1

KEL-FG B1

with V2A

screws

42332



with threaded bushings.

Туре	Order No.	Grommets small large	PU	Description	
KEL-FG B4 with V2A screws		4 - 4 -	1		

42332.200 -|1

-|1









Product description

The cable entry frames KEL-FG are suited for installation, sealing and strain relief of pre-terminated cables and conduits at an angle of 90° to the cabinet.

For routeing cables and conduits up to 34 mm in diameter.

Advantages

- Installation at an angle of 90° to the cabinet
- Mechanical protection of cable directly at the place of entry
- Protection against water spray and drips
- Warranty on pre-terminated cables remains
- Strain relief according to EN 50262 / 62444
- Vibration proof

Specifications

Material Flame class Protection class

Temperature

Properties

Polyamide (PA) UL94-Vo, self-extinguishing IP54, with gasket and correct selection of the cable grommets - 40°C to + 140°C (static) Halogen free, silicone free 46 × 36 mm, Page 176 - 177

Accessories

Cut-out dimensions

K⊤ Cable grommets 38 **-** 42 KEL-EMC Cable collectors 119 **-** 120





KEL-SNAP

Snap mounting frames





sealing (IP54)



46 × 38

46 × 65

46 × 85

10

10

10

Blind plate BPK-SNAP, see page 156

Product description

The patented KEL-SNAP frame provides a quick assembly of the KEL system when necessary.

Control panels can be equipped with the KEL-SNAP frame at delivery, allowing a simple push in of the KEL frame when routeing the cables and conduits. Perfect for enclosures that are maintenance intensive or for an install at a later date.

A cut-out of 46 mm also can be chosen instead of 36 mm. Thus prefabricated multi-pole connectors can be used.

Advantages

- Upon disassembly (e.g. maintenance) screwing and unscrewing of KEL-frame is not necessary
- Previously assembled KEL frames are quickly and easily attached
- Integrated gasket
- Drilling template identical to KEL frame (except KEL-SNAP-B4)

KEL-SNAP-B4	42038	KEL-B KEL-U-B KEL-QUICK-B
KEL-SNAP 10	42039	KEL 10 KEL-U 10



KEL 16 KEL-SNAP 16 42040 KEL-U 16 KEL-QUICK 16

c FN us	IP54	up to NEMA 12	HL3 EN 45545-2	ECOLAB certified	RoHS compliant	Made in Germany
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KEL-SNAP

Snap mounting frames



Туре	Order No.	Fits for	Cut-out [mm]	PU	Description
KEL-SNAP 24	42042	KEL 24 KEL-U 24 KEL-FG A KEL-QUICK 24	46 × 112	10	
KEL-SNAP 24-E	42044	KEL 24-E	71 × 112	1	
KEL-SNAP 24-MT	42046	KEL 24-MT	89 × 112	1	



Specifications

Material	Polyamide (PA)
Flame class	UL94-Vo, self-extinguishing
Protection class	IP54 (certified according to
	DIN EN 60529:2000-09)
Temperature	- 40°C to + 140°C (static)
Properties	Halogen free, silicone free
Drilling template	See Page 176 - 177

Accessories

KEL Cable entry frames	16 - 21
KEL-U Cable entry frames	6 - 12
KEL-QUICK Cable entries	50 - 51
MP Module plates	146
BPK-SNAP Blind plates	156

Typical applications

Cable entry systems for pre-terminated cables









KEL 24|10 - Page 16 / BPK 24 - Page 154 Routeing of 6 cables with one cable entry frame. Another cut-out is sealed by a plastic blind plate BPK 24.



KEL 24/12-2MT - Page 22 Routeing of 6 large cables up to 34 mm with one cable entry frame and one cut-out.



KEL-FG A10 - Page 26 In conjunction with cable carriers for strain relief and cable routeing into a integrated switch cabinet.



KVT 50-W90 - Page 36 Cable routeing into a control panel at a 90 degree angle with KVT-W90.



KEL-JUMBO 2 - Page 48 / KEL 24 \mid x - Page 16 Routeing of conduits and large cables in the vehicle frame.