

KEL-ER-BS cable entry frames with fire penetration seals (EN 45545-3)

for cables with connectors / IP66 / UL Type 12/4X*



IP54

UL TYPE 4X*

ECOLAB certified

IP55

CULUS

UV ISO 4892-2A

IP64

HL3 EN 45545-2

RoHS compliant

IP65

E45 EI30 EN 45545-3

REACH COMPLIANCE

IP66

EN 61373

Made in Germany

UL TYPE 12

JAPAN RAILWAY TESTED FLAME RETARDANT

icotek cable entry frames with fire penetration seals, approved for use in [railway technology](#) (meeting the standards EN 45545-2, EN 45545-3 and EN 1363-1).

Split cable entry system for routing and sealing cables with connectors, providing an IP66 / UL type 12/4X* rating and strain relief for cable diameters from 1 to 16 mm (single-hole grommets KT 1 - 15) and 16 to 35 mm (single-hole grommets KT 16 - 34).

The 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-BS frame matches exactly the cut-out dimensions for 10-, 16- and 24-pin standard industrial connectors. The KEL-ER-B-BBS frame matches exactly the cut-out dimensions of 46 × 46 mm measuring instruments. The single-row version KEL-ER-E-BS is particularly suited for flat connectors. The small frame is ideal for applications with limited space. A flat rubber gasket is included in the shipment.

The intumescent (foaming) IPFS fire penetration seals which are mounted at the backside of the cable entry components consist of expandable graphite and increase their volume by a multiple in case of a fire.

This creates a barrier which prevents a penetration of flames and high heat from one room into another for the longest possible period.

*4X for indoor use only

Specifications

IP rating (EN 60529)	IP54, IP55, IP64, IP65, IP66
UL Type (UL 50E)	UL Type 12, UL Type 4X*
Material	Polyamide
Flame class	UL94-V0, self-extinguishing
Operating temperature	-40 C° to 140 C°
Properties	silicone free, halogen free, intumescent (foaming), anti-corrosive (V2A versions)
Mounting options	Screw type mounting

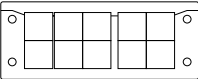
Advantages & benefits

- Approved for use in railway technology (EN 45545-2, EN 45545-3, EN 1363-1 and EN 61373)
- Only one fire penetration seal per cable entry component required
- High classifications E45 / EI30
- Warranty on pre-terminated cables remains
- Retrofits, repairs and maintenance can be done much more easily and quickly
- High cable density, wide variety of grommets
- Strain relief according to EN 62444
- High stability, vibration resistant
- Space-saving shape
- Perfect for routing D-Sub connectors

Product types & sizes

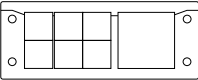
KEL-ER 24 10-BS			
	Part No.	99300.006	
	EAN	4251269318467	
	Package quantity	5	
	For max. no. of cables	10	
	Max. cable diameter	16 mm	
	Length	147 mm	
	Width	58 mm	
		Height	17 mm
		Mounting height	17 mm
		Cut-out size	112 × 36 mm
		No. of screw holes	4
		Diam. of screw holes	5,8 mm
		Screw material	Mild steel, galvanically zinc plated
		Suitable for grommets	10 x KT small

KEL-ER 24|10-BS V2A



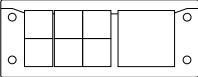
Part No.	99300.206	Height	17 mm
EAN	4251269318818	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	10	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	10 x KT small

KEL-ER 24|7-BS



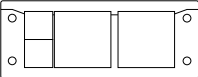
Part No.	99300.005	Height	17 mm
EAN	4251269318450	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	7	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	6 x KT small 1 x KT large

KEL-ER 24|7-BS V2A



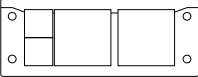
Part No.	99300.205	Height	17 mm
EAN	4251269318801	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	7	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	6 x KT small 1 x KT large

KEL-ER 24|4-BS



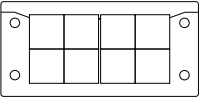
Part No.	99300.004	Height	17 mm
EAN	4251269318443	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	4	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	2 x KT small 2 x KT large

KEL-ER 24|4-BS V2A



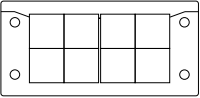
Part No.	99300.204	Height	17 mm
EAN	4251269318795	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	4	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	2 x KT small 2 x KT large

KEL-ER 16|8-BS



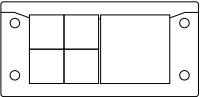
Part No.	99301.006	Height	17 mm
EAN	4251269318528	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	8	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	8 x KT small

KEL-ER 16|8-BS V2A



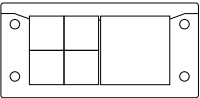
Part No.	99301.206	Height	17 mm
EAN	4251269318870	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	8	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	8 x KT small

KEL-ER 16|5-BS



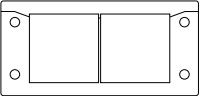
Part No.	99301.005	Height	17 mm
EAN	4251269318511	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	5	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	4 x KT small 1 x KT large

KEL-ER 16|5-BS V2A



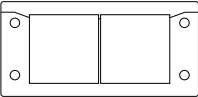
Part No.	99301.205	Height	17 mm
EAN	4251269318863	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	5	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	4 x KT small 1 x KT large

KEL-ER 16|2-BS



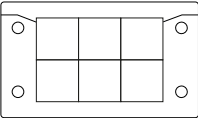
Part No.	99301.004	Height	17 mm
EAN	4251269318504	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	2	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	2 x KT large

KEL-ER 16|2-BS V2A



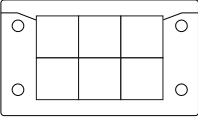
Part No.	99301.204	Height	17 mm
EAN	4251269318856	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	2	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	2 x KT large

KEL-ER 10|6-BS



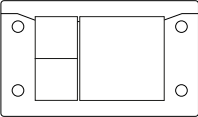
Part No.	99306.003	Height	17 mm
EAN	4251269320668	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	6	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	6 x KT small

KEL-ER 10|6-BS V2A



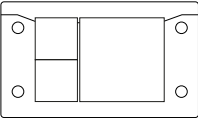
Part No.	99306.203	Height	17 mm
EAN	4251269321948	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	6	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	6 x KT small

KEL-ER 10|3-BS



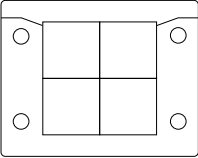
Part No.	99306.004	Height	17 mm
EAN	4251269320675	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	3	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	2 x KT small 1 x KT large

KEL-ER 10|3-BS V2A



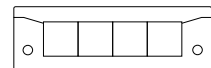
Part No.	99306.204	Height	17 mm
EAN	4251269321955	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	3	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	2 x KT small 1 x KT large

KEL-ER-B4-BS

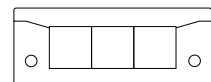


Part No.	99305.004	Height	17 mm
EAN	4251269320637	Mounting height	17 mm
Package quantity	5	Cut-out size	46 × 46 mm
For max. no. of cables	4	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	4 x KT small

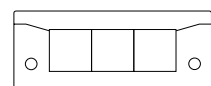
KEL-ER-B4-BS V2A 	Part No.	99305.204	Height	17 mm
	EAN	4251269321917	Mounting height	17 mm
	Package quantity	5	Cut-out size	46 × 46 mm
	For max. no. of cables	4	No. of screw holes	4
	Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
	Length	73 mm	Screw material	Stainless steel (V2A)
	Width	58 mm	Suitable for grommets	4 x KT small
KEL-ER-B1-BS 	Part No.	99305.003	Height	17 mm
	EAN	4251269320620	Mounting height	17 mm
	Package quantity	5	Cut-out size	46 × 46 mm
	For max. no. of cables	1	No. of screw holes	4
	Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
	Length	73 mm	Screw material	Mild steel, galvanically zinc plated
	Width	58 mm	Suitable for grommets	1 x KT large 0 x KT small
KEL-ER-B1-BS V2A 	Part No.	99305.203	Height	17 mm
	EAN	4251269321900	Mounting height	17 mm
	Package quantity	5	Cut-out size	46 × 46 mm
	For max. no. of cables	1	No. of screw holes	4
	Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
	Length	73 mm	Screw material	Stainless steel (V2A)
	Width	58 mm	Suitable for grommets	1 x KT large 0 x KT small
KEL-ER-E5-BS 	Part No.	99302.002	Height	17 mm
	EAN	4251269318542	Mounting height	17 mm
	Package quantity	5	Cut-out size	112 × 24 mm
	For max. no. of cables	5	No. of screw holes	2
	Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
	Length	147 mm	Screw material	Mild steel, galvanically zinc plated
	Width	39 mm	Suitable for grommets	5 x KT small
KEL-ER-E5-BS V2A 	Part No.	99302.202	Height	17 mm
	EAN	4251269318894	Mounting height	17 mm
	Package quantity	5	Cut-out size	112 × 24 mm
	For max. no. of cables	5	No. of screw holes	2
	Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
	Length	147 mm	Screw material	Stainless steel (V2A)
	Width	39 mm	Suitable for grommets	5 x KT small
KEL-ER-E4-BS 	Part No.	99309.002	Height	17 mm
	EAN	4251269321801	Mounting height	17 mm
	Package quantity	5	Cut-out size	86 × 24 mm
	For max. no. of cables	4	No. of screw holes	2
	Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
	Length	120 mm	Screw material	Mild steel, galvanically zinc plated
	Width	39 mm	Suitable for grommets	4 x KT small

KEL-ER-E4-BS V2A

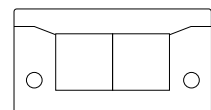
Part No.	99309.202	Height	17 mm
EAN	4251269321825	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 24 mm
For max. no. of cables	4	No. of screw holes	2
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	39 mm	Suitable for grommets	4 x KT small

KEL-ER-E3-BS

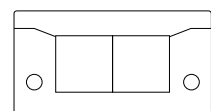
Part No.	99308.002	Height	17 mm
EAN	4251269321764	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 24 mm
For max. no. of cables	3	No. of screw holes	2
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Mild steel, galvanically zinc plated
Width	39 mm	Suitable for grommets	3 x KT small

KEL-ER-E3-BS V2A

Part No.	99308.202	Height	17 mm
EAN	4251269321788	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 24 mm
For max. no. of cables	3	No. of screw holes	2
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Stainless steel (V2A)
Width	39 mm	Suitable for grommets	3 x KT small

KEL-ER-E2-BS

Part No.	99307.002	Height	17 mm
EAN	4251269321726	Mounting height	17 mm
Package quantity	5	Cut-out size	43 × 24 mm
For max. no. of cables	2	No. of screw holes	2
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Mild steel, galvanically zinc plated
Width	39 mm	Suitable for grommets	2 x KT small

KEL-ER-E2-BS V2A

Part No.	99307.202	Height	17 mm
EAN	4251269321740	Mounting height	17 mm
Package quantity	5	Cut-out size	43 × 24 mm
For max. no. of cables	2	No. of screw holes	2
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Stainless steel (V2A)
Width	39 mm	Suitable for grommets	2 x KT small