

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

for cables with connectors / IP54 / UL Type 12



icotech 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 cables with connectors providing an IP54 / UL type 12 rating. Routing, sealing and providing strain relief for cable diameters from 1 to 35 mm. 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-U-BS frame matches exactly the cut-out dimensions for 10-, 16- and 24-pin standard industrial connectors. The KEL-U-B-BS frame matches exactly the cut-out dimensions of 46 x 46 mm measuring instruments. The single-row version KEL-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) IFPS 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.



Specifications

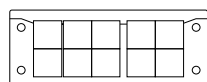
IP rating (EN 60529)	IP54
UL Type (UL 50E)	UL Type 12
Material	Polyamide
Flame class	UL94-V0, self-extinguishing
Operating temperature	-40 C° to 140 C°
Properties	silicone free, intumescent (foaming), halogen free
Mounting options	Screw type mounting

Advantages & benefits

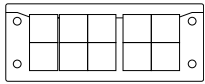
- Approved for use in railway technology (EN 45545-2, EN 45545-3, EN 1363-1 and EN 61373)
- Only one fire penetration seal per cable entry component required
- High classifications E45 / EI30
- Greatly increased cable density when using double or quadruple grommets
- Fast and easy assembly
- Warranty 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

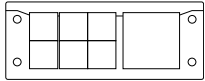
KEL-U 24|10-BS



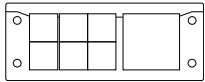
Part No.	99300.003	Height	17 mm
EAN	4251269318436	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 36 mm
For max. no. of cables	40	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	10 x KT small

KEL-U 24|10-BS V2A

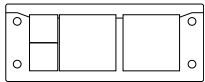
Part No.	99300.203	Height	17 mm
EAN	4251269318788	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 36 mm
For max. no. of cables	40	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	10 x KT small

KEL-U 24|7-BS

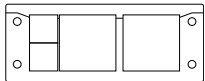
Part No.	99300.002	Height	17 mm
EAN	4251269318429	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 36 mm
For max. no. of cables	25	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	6 x KT small 1 x KT large

KEL-U 24|7-BS V2A

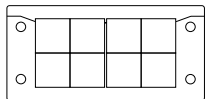
Part No.	99300.202	Height	17 mm
EAN	4251269318771	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 36 mm
For max. no. of cables	25	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	6 x KT small 1 x KT large

KEL-U 24|4-BS

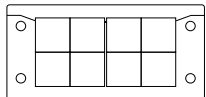
Part No.	99300.001	Height	17 mm
EAN	4251269318412	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 36 mm
For max. no. of cables	10	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	2 x KT small 2 x KT large

KEL-U 24|4-BS V2A

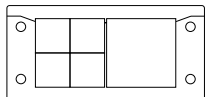
Part No.	99300.201	Height	17 mm
EAN	4251269318764	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 36 mm
For max. no. of cables	10	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	2 x KT small 2 x KT large

KEL-U 16|8-BS

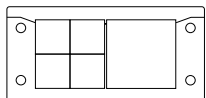
Part No.	99301.003	Height	17 mm
EAN	4251269318498	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 36 mm
For max. no. of cables	32	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	8 x KT small

KEL-U 16|8-BS V2A

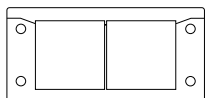
Part No.	99301.203	Height	17 mm
EAN	4251269318849	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 36 mm
For max. no. of cables	32	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	8 x KT small

KEL-U 16|5-BS

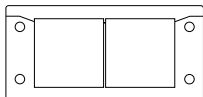
Part No.	99301.002	Height	17 mm
EAN	4251269318481	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 36 mm
For max. no. of cables	17	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	4 x KT small 1 x KT large

KEL-U 16|5-BS V2A

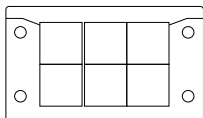
Part No.	99301.202	Height	17 mm
EAN	4251269318832	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 36 mm
For max. no. of cables	17	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	4 x KT small 1 x KT large

KEL-U 16|2-BS

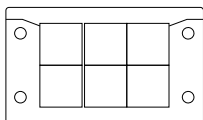
Part No.	99301.001	Height	17 mm
EAN	4251269318474	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 36 mm
For max. no. of cables	2	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	2 x KT large

KEL-U 16|2-BS V2A

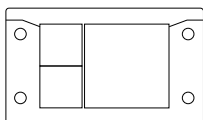
Part No.	99301.201	Height	17 mm
EAN	4251269318825	Mounting height	17 mm
Package quantity	5	Cut-out size	86 × 36 mm
For max. no. of cables	2	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	2 x KT large 0 x KT small

KEL-U 10|6-BS

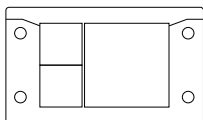
Part No.	99306.001	Height	17 mm
EAN	4251269320644	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	24	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	6 x KT small

KEL-U 10|6-BS V2A

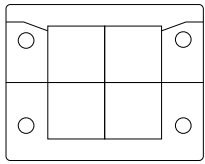
Part No.	99306.201	Height	17 mm
EAN	4251269321924	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	24	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	6 x KT small

KEL-U 10|3-BS

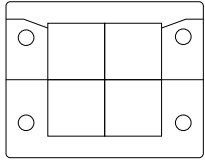
Part No.	99306.002	Height	17 mm
EAN	4251269320651	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	9	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	2 x KT small 1 x KT large

KEL-U 10|3-BS V2A

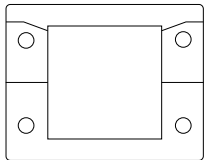
Part No.	99306.202	Height	17 mm
EAN	4251269321931	Mounting height	17 mm
Package quantity	5	Cut-out size	65 × 36 mm
For max. no. of cables	9	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	2 x KT small 1 x KT large

KEL-U-B4-BS

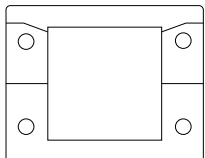
Part No.	99305.002	Height	17 mm
EAN	4251269320613	Mounting height	17 mm
Package quantity	5	Cut-out size	46 × 46 mm
For max. no. of cables	16	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	4 x KT small

KEL-U-B4-BS V2A

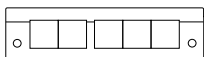
Part No.	99305.202	Height	17 mm
EAN	4251269321894	Mounting height	17 mm
Package quantity	5	Cut-out size	46 × 46 mm
For max. no. of cables	16	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	4 x KT small

KEL-U-B1-BS

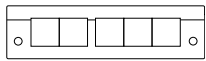
Part No.	99305.001	Height	17 mm
EAN	4251269320606	Mounting height	17 mm
Package quantity	5	Cut-out size	46 × 46 mm
For max. no. of cables	1	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	Suitable for grommets	1 x KT large 0 x KT small

KEL-U-B1-BS V2A

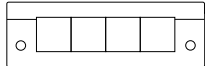
Part No.	99305.201	Height	17 mm
EAN	4251269321887	Mounting height	17 mm
Package quantity	5	Cut-out size	46 × 46 mm
For max. no. of cables	1	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	73 mm	Screw material	Stainless steel (V2A)
Width	58 mm	Suitable for grommets	1 x KT large 0 x KT small

KEL-E5-BS

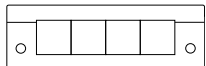
Part No.	99302.001	Height	17 mm
EAN	4251269318535	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 24 mm
For max. no. of cables	20	No. of screw holes	2
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	39 mm	Suitable for grommets	5 x KT small 0 x KT small

KEL-E5-BS V2A

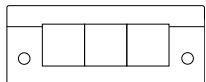
Part No.	99302.201	Height	17 mm
EAN	4251269318887	Mounting height	17 mm
Package quantity	5	Cut-out size	112 x 24 mm
For max. no. of cables	20	No. of screw holes	2
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stainless steel (V2A)
Width	39 mm	Suitable for grommets	5 x KT small

KEL-E4-BS

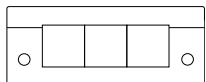
Part No.	99309.001	Height	17 mm
EAN	4251269321795	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 24 mm
For max. no. of cables	16	No. of screw holes	2
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Mild steel, galvanically zinc plated
Width	39 mm	Suitable for grommets	4 x KT small

KEL-E4-BS V2A

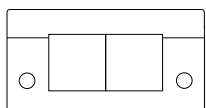
Part No.	99309.201	Height	17 mm
EAN	4251269321818	Mounting height	17 mm
Package quantity	5	Cut-out size	86 x 24 mm
For max. no. of cables	16	No. of screw holes	2
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	120 mm	Screw material	Stainless steel (V2A)
Width	39 mm	Suitable for grommets	4 x KT small

KEL-E3-BS

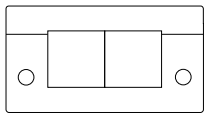
Part No.	99308.001	Height	17 mm
EAN	4251269321757	Mounting height	17 mm
Package quantity	5	Cut-out size	65 x 24 mm
For max. no. of cables	12	No. of screw holes	2
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	98 mm	Screw material	Mild steel, galvanically zinc plated
Width	39 mm	Suitable for grommets	3 x KT small

KEL-E3-BS V2A

Part No.	99308.201	Height	17 mm
EAN	4251269321771	Mounting height	17 mm
Package quantity	5	Cut-out size	65 x 24 mm
For max. no. of cables	12	No. of screw holes	2
Max. cable diameter	17 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-E2-BS

Part No.	99307.001	Height	17 mm
EAN	4251269321719	Mounting height	17 mm
Package quantity	5	Cut-out size	43 x 24 mm
For max. no. of cables	8	No. of screw holes	2
Max. cable diameter	17 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-E2-BS V2A

Part No.
EAN
Package quantity
For max. no. of cables
Max. cable diameter
Length
Width

99307.201
4251269321733
5
8
17 mm
73 mm
39 mm

Height
Mounting height
Cut-out size
No. of screw holes
Diam. of screw holes
Screw material
Suitable for grommets

17 mm
17 mm
43 × 24 mm
2
5,8 mm
Stainless steel (V2A)
2 x KT small

icotek[®]
smart cable management