

# KEL-ER | split cable entry frames

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



IP54

IP55

IP64

IP65

IP66

UL TYPE 12

UL TYPE 4X\*

UL US

RoHS compliant

HL3 EN 45545-2

EN 61373

ECOLAB certified

ISO 4892-2A

PNEUMATICS

REACH COMPLIANCE

Made in Germany

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 13 to 35 mm (single-hole grommets KTG 13 - KT 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 frames match exactly the cut-out dimensions for 10-, 16- and 24-pin standard industrial connectors. Either a cut-out of 36 mm or 46 mm in height can be chosen depending on the cables being routed. The KEL-ER-B frame matches the cut-out dimensions of 46 x 46 mm measuring instruments.

The single-row versions KEL-ER-E are particularly suited for flat connectors. The small frames are ideal for applications with limited space.

Thanks to the injected seal and the use of single grommets, the KEL-ER series achieves protection class IP66. If the flange surface is roughly structured or slightly uneven, we recommend installing the additional flat rubber gasket included in the shipment.

The version with threaded bushings enables the cable entry frame to be screwed onto the housing from the inside out. This protects against vandalism and tampering with the housing from the outside.

\*4X for indoor use only

## Specifications

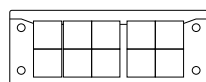
<b>IP rating (EN 60529)</b>	IP54, IP55, IP64, IP65, IP66
<b>UL Type (UL 50E)</b>	UL Type 12, UL Type 4X*
<b>Material</b>	Polyamide
<b>Flame class</b>	UL94-V0, self-extinguishing
<b>Operating temperature</b>	-40 C° to 140 C°
<b>Properties</b>	vibration proof, UV-resistant, silicone free, anti-corrosive (V2A versions), halogen free
<b>Mounting options</b>	Screw type mounting
<b>Mounting height</b>	17 mm

## Advantages & benefits

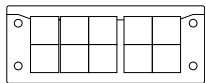
- Warranty on pre-terminated cables remains
- Retrofits, repairs and maintenance can be done much more easily and quickly
- High cable density, wide variety of grommets
- Strain relief according to EN 62444
- High stability, vibration resistant
- Space-saving shape

## Product types & sizes

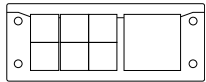
KEL-ER 24|10



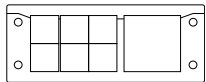
Part No.	<b>48241</b>	Height	<b>17 mm</b>
EAN	<b>4251269312076</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>10</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>10 x KT small</b>

**KEL-ER 24|10 V2A**

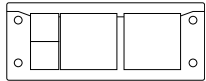
Part No.	<b>48241.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312083</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>10</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>10 x KT small</b>

**KEL-ER 24|7**

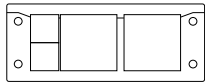
Part No.	<b>48247</b>	Height	<b>17 mm</b>
EAN	<b>4251269312113</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>7</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>6 x KT small 1 x KT large</b>

**KEL-ER 24|7 V2A**

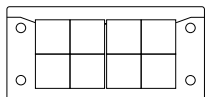
Part No.	<b>48247.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312120</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>7</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>6 x KT small 1 x KT large</b>

**KEL-ER 24|4**

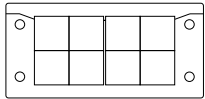
Part No.	<b>48244</b>	Height	<b>17 mm</b>
EAN	<b>4251269312090</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small 2 x KT large</b>

**KEL-ER 24|4 V2A**

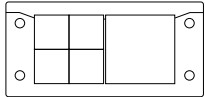
Part No.	<b>48244.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312106</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small 2 x KT large</b>

**KEL-ER 16|8**

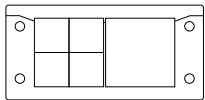
Part No.	<b>48168</b>	Height	<b>17 mm</b>
EAN	<b>4251269311970</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>8 x KT small</b>

**KEL-ER 16|8 V2A**

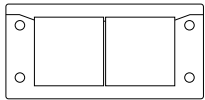
Part No.	<b>48168.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269311987</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>8 x KT small</b>

**KEL-ER 16|5**

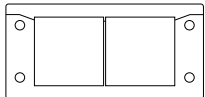
Part No.	<b>48165</b>	Height	<b>17 mm</b>
EAN	<b>4251269311956</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>4 x KT small 1 x KT large</b>

**KEL-ER 16|5 V2A**

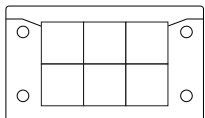
Part No.	<b>48165.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269311963</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>4 x KT small 1 x KT large</b>

**KEL-ER 16|2**

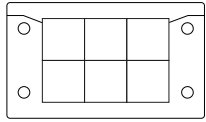
Part No.	<b>48162</b>	Height	<b>17 mm</b>
EAN	<b>4251269311932</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT large</b>

**KEL-ER 16|2 V2A**

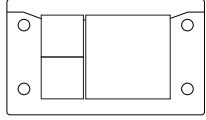
Part No.	<b>48162.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269311949</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT large</b>

**KEL-ER 10|6**

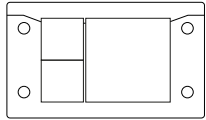
Part No.	<b>48216</b>	Height	<b>17 mm</b>
EAN	<b>4251269312052</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>6 x KT small</b>

**KEL-ER 10|6 V2A**

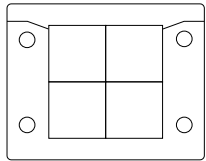
Part No.	<b>48216.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312069</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>6 x KT small</b>

**KEL-ER 10|3**

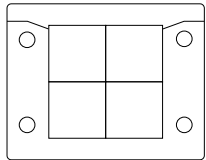
Part No.	<b>48212</b>	Height	<b>17 mm</b>
EAN	<b>4251269312038</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small 1 x KT large</b>

**KEL-ER 10|3 V2A**

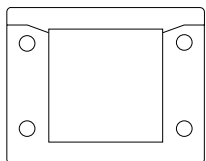
Part No.	<b>48212.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312045</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small 1 x KT large</b>

**KEL-ER-B4**

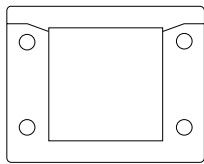
Part No.	<b>48204</b>	Height	<b>17 mm</b>
EAN	<b>4251269311994</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>4 x KT small</b>

**KEL-ER-B4 V2A**

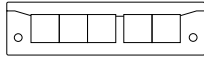
Part No.	<b>48204.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312007</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>4 x KT small</b>

**KEL-ER-B1**

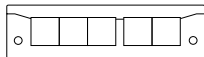
Part No.	<b>48206</b>	Height	<b>17 mm</b>
EAN	<b>4251269312014</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>1</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>1 x KT large</b>

**KEL-ER-B1 V2A**

Part No.	<b>48206.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312021</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>1</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>1 x KT large</b>

**KEL-ER-E5**

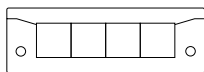
Part No.	<b>48250</b>	Height	<b>17 mm</b>
EAN	<b>4251269312151</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 24 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>5 x KT small</b>

**KEL-ER-E5 V2A**

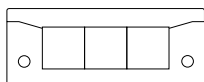
Part No.	<b>48250.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312168</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>112 × 24 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>5 x KT small</b>

**KEL-ER-E4**

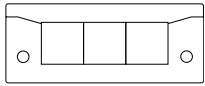
Part No.	<b>48259</b>	Height	<b>17 mm</b>
EAN	<b>4251269312199</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 24 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>4 x KT small</b>

**KEL-ER-E4 V2A**

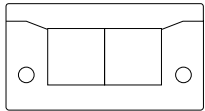
Part No.	<b>48259.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312205</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>86 × 24 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>4 x KT small</b>

**KEL-ER-E3**

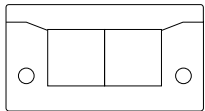
Part No.	<b>48258</b>	Height	<b>17 mm</b>
EAN	<b>4251269312175</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>65 × 24 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>3 x KT small</b>

**KEL-ER-E3 V2A**

Part No.	<b>48258.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312182</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>65 × 24 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>3 x KT small</b>

**KEL-ER-E2**

Part No.	<b>48249</b>	Height	<b>17 mm</b>
EAN	<b>4251269312137</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>43 × 24 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>2 x KT small</b>

**KEL-ER-E2 V2A**

Part No.	<b>48249.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312144</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>10</b>	Cut-out size	<b>43 × 24 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Stainless steel (V2A)</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>2 x KT small</b>