

# KEL-ER split cable entry frames

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



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).

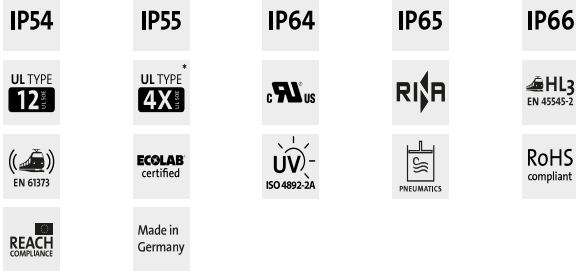
The cable entry system is easy to install. Cable grommets are placed into compartments and are securely fixed to the frame during assembly.

The KEL-ER 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.

A flat rubber gasket is included in the shipment.

\*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>height</b>	17 mm

## Advantages & benefits

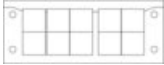
- Garantierhalt konfektionierter Leitungen
- Nachrüstungen, Servicearbeiten problemlos und schnell durchführbar
- Hohe Packungsdichte, große Variabilität
- Zugentlastung gemäß DIN EN 62444
- Hohe Stabilität, vibrationsicher
- Platz sparende, kompakte Bauform

## Product types & sizes

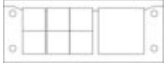
KEL-ER 24|10



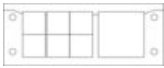
Part No.	48241	Height	17 mm
EAN	4251269312076	Mounting height	17 mm
PU	10	Cut-out size	112 x 36 mm
For max. no. of cables	10	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stahl, galvanisch verzinkt
Width	58 mm	Suitable for grommets	10 x KT small

**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>
PU	<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>Edelstahl 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>
PU	<b>10</b>	Cut-out size	<b>112 x 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>Stahl, galvanisch verzinkt</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>
PU	<b>10</b>	Cut-out size	<b>112 x 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>Edelstahl V2A</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>6 x KT small 1 x KT large</b>

**KEL-ER 24|4**

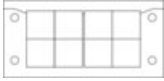
Part No.	<b>48244</b>	Height	<b>17 mm</b>
EAN	<b>4251269312090</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material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

**KEL-ER 24|4 V2A**

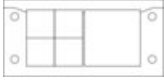
Part No.	<b>48244.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312106</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material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

**KEL-ER 16|8**

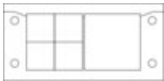
Part No.	<b>48168</b>	Height	<b>17 mm</b>
EAN	<b>4251269311970</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</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>
PU	<b>10</b>	Cut-out size	<b>86 x 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>Edelstahl 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>
PU	<b>10</b>	Cut-out size	<b>86 x 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>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>4 x KT small 1 x KT large</b>

**KEL-ER 16|5 V2A**

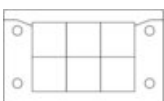
Part No.	<b>48165.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269311963</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material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

**KEL-ER 16|2**

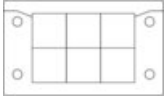
Part No.	<b>48162</b>	Height	<b>17 mm</b>
EAN	<b>4251269311932</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material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

**KEL-ER 16|2 V2A**

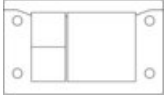
Part No.	<b>48162.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269311949</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material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

**KEL-ER 10|6**

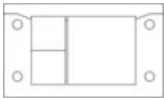
Part No.	<b>48216</b>	Height	<b>17 mm</b>
EAN	<b>4251269312052</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>65 x 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material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

**KEL-ER 10|6 V2A**

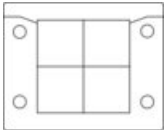
Part No.	<b>48216.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312069</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material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

**KEL-ER 10|3**

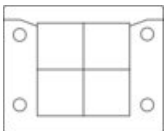
Part No.	<b>48212</b>	Height	<b>17 mm</b>
EAN	<b>4251269312038</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material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

**KEL-ER 10|3 V2A**

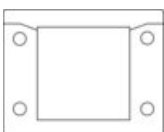
Part No.	<b>48212.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312045</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material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

**KEL-ER-B4**

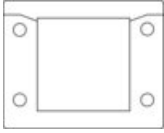
Part No.	<b>48204</b>	Height	<b>17 mm</b>
EAN	<b>4251269311994</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</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>
PU	<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>Edelstahl 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>
PU	<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>Stahl, galvanisch verzinkt</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>
PU	<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>Edelstahl 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>
PU	<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>Stahl, galvanisch verzinkt</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>
PU	<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>Edelstahl V2A</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>5 x KT small</b>

**KEL-ER-E4**

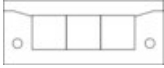
Part No.	<b>48259</b>	Height	<b>17 mm</b>
EAN	<b>4251269312199</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>86 × 24 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material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

**KEL-ER-E4 V2A**

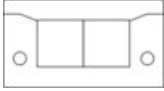
Part No.	<b>48259.200</b>	Height	<b>17 mm</b>
EAN	<b>4251269312205</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>86 × 24 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material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

**KEL-ER-E3**

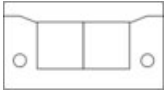
Part No.	<b>48258</b>	Height	<b>17 mm</b>
EAN	<b>4251269312175</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>65 × 24 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</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>
PU	<b>10</b>	No. of screw holes	<b>2</b>
For max. no. of cables	<b>3</b>	Diam. of screw holes	<b>5,8 mm</b>
Max. cable diameter	<b>16 mm</b>	Screw material	<b>Edelstahl V2A</b>
Length	<b>98 mm</b>	Suitable for grommets	<b>3 x KT small</b>
Width	<b>39 mm</b>		

**KEL-ER-E2**

Part No.	<b>48249</b>	Height	<b>17 mm</b>
EAN	<b>4251269312137</b>	Mounting height	<b>17 mm</b>
PU	<b>10</b>	Cut-out size	<b>43 x 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>Stahl, galvanisch verzinkt</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>
PU	<b>10</b>	Cut-out size	<b>43 x 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>Edelstahl V2A</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>2 x KT small</b>