

# KEL-ER CR split cable entry frames

for the use in cleanrooms / 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 CR 1 - 15) and 16 to 35 mm (single-hole grommets KT CR 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 CR 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 CR frame matches the cut-out dimensions of 46 x 46 mm measuring instruments.

The single-row versions KEL-ER-E CR 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.

**The products with article ending .600 are tested and certified for particle emission for cleanroom class 1 according to ISO 14644-1. The materials used for these products have been tested and certified for outgassing according to VOC/SVOC (ISO 14644-8; ISO 16000-6,-9,-11,-25, VDI 2083 sheet 17).**

**The products with the article ending .601 are tested and certified for particle emission for cleanroom class 1 according to ISO 14644-1.**

\*4X for indoor use only

IP54

UL TYPE  
12

EN 61373

RoHS  
compliant

IP55

UL TYPE  
4X

ECOLAB  
certified

REACH  
COMPLIANCE

IP64

C  
UL  
US

UV  
ISO 4892-2A

Made in  
Germany

IP65

R  
I  
A

EN ISO 14644

IP66

HL3  
EN 45545-2

PNEUMATICS

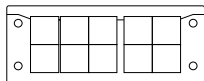
## Specifications

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	vibration proof, UV-resistant, silicone free, anti-corrosive (V2A versions), halogen free
Mounting options	Screw type mounting
Mounting height	17 mm

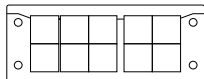
## Product types & sizes

## Advantages & benefits

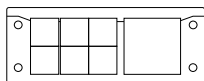
- Warranty on pre-terminated cables remains
- Retrofits, repairs and maintenance can be done much more easily and quickly
- High cable density, wide variety of grommets
- Strain relief according to EN 62444
- High stability, vibration resistant
- Space-saving shape

**KEL-ER 24|10 CR**

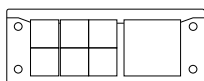
Part No.	<b>48241.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325892</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>10</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>10 x KT small</b>

**KEL-ER 24|10 CR (S)VOC**

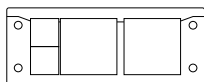
Part No.	<b>48241.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325755</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>10</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>10 x KT small</b>

**KEL-ER 24|7 CR**

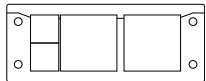
Part No.	<b>48247.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325915</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>7</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</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 CR (S)VOC**

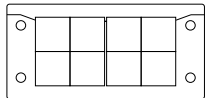
Part No.	<b>48247.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325779</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>7</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</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|4 CR**

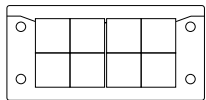
Part No.	<b>48244.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325908</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</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 CR  
(S)VOC**

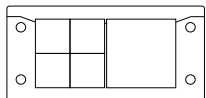
Part No.	<b>48244.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325762</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</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 16|8 CR**

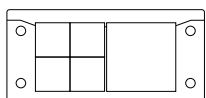
Part No.	<b>48168.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325847</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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 CR  
(S)VOC**

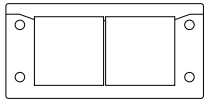
Part No.	<b>48168.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325700</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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|5 CR**

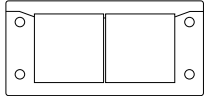
Part No.	<b>48165.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325830</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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 CR  
(S)VOC**

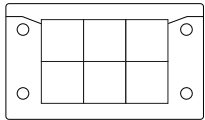
Part No.	<b>48165.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325694</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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|2 CR**

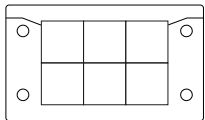
Part No.	<b>48162.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325823</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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 CR (S)VOC**

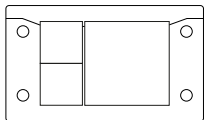
Part No.	<b>48162.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325687</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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 10|6 CR**

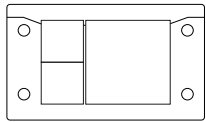
Part No.	<b>48216.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325885</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</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 CR (S)VOC**

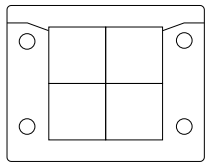
Part No.	<b>48216.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325748</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</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|3 CR**

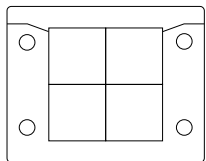
Part No.	<b>48212.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325878</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small</b> <b>1 x KT large</b>

**KEL-ER 10|3 CR  
(S)VOC**

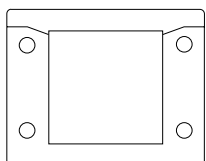
Part No.	<b>48212.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325731</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</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-B4 CR**

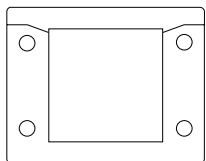
Part No.	<b>48204.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325854</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</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 CR (S)VOC**

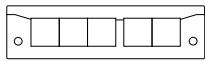
Part No.	<b>48204.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325717</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</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-B1 CR**

Part No.	<b>48206.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325861</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</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 CR (S)VOC**

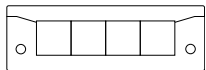
Part No.	<b>48206.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325724</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>1</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</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-E5 CR**

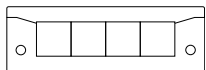
Part No.	<b>48250.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325939</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 24 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</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 CR (S)VOC**

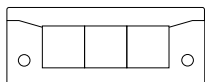
Part No.	<b>48250.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325793</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 24 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</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-E4 CR**

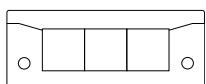
Part No.	<b>48259.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325953</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 24 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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 CR (S)VOC**

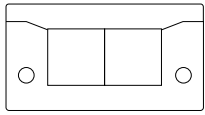
Part No.	<b>48259.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325816</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 24 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>2</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</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-E3 CR**

Part No.	<b>48258.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325946</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</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 CR (S)VOC**

Part No.	<b>48258.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325809</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</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>Mild steel, galvanically zinc plated</b>
Length	<b>98 mm</b>	Suitable for grommets	<b>3 x KT small</b>
Width	<b>39 mm</b>		

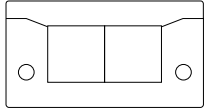
**KEL-ER-E2 CR**

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

**48249.601**  
**4251269325922**  
**5**  
**2**  
**16 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**  
**Mild steel, galvanically zinc plated**  
**2 x KT small**

**KEL-ER-E2 CR (S)VOC**

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

**48249.600**  
**4251269325786**  
**5**  
**2**  
**16 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**  
**Mild steel, galvanically zinc plated**  
**2 x KT small**