

# KEL-ER CR split cable entry frames

for the use in cleanrooms / IP66 / UL Type 12/4X\*



IP54

UL TYPE 12

EN 61373

RoHS compliant

IP55

UL TYPE 4X

ECOLAB certified

REACH COMPLIANCE

IP64

CULUS

ISO 4892-2A

Made in Germany

IP65

RiRA

EN ISO 14644

IP66

HL3 EN 45545-2

PNEUMATICS



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 × 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

## Specifications

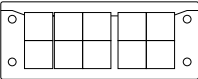
IP rating (EN 60529)	IP54, IP55, IP64, IP65, IP66
UL Type (UL 50E)	UL Type 12, UL Type 4X*
Material	Polyamide
Flame class	UL94-V0, self-extinguishing
Operating temperature	-40 C° to 140 C°
Properties	vibration proof, UV-resistant, silicone free, anti-corrosive (V2A versions), halogen free
Mounting options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

## Product types & sizes

## Advantages & benefits

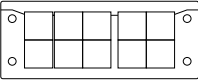
- Warranty on pre-terminated cables remains
- Retrofits, repairs and maintenance can be done much more easily and quickly
- High cable density, wide variety of grommets
- Strain relief according to EN 62444
- High stability, vibration resistant
- Space-saving shape

KEL-ER 24|10 CR



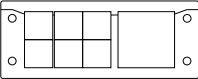
Part No.	48241.601	Height	17 mm
EAN	4251269325892	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	10	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	(S)VOC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

KEL-ER 24|10 CR  
(S)VOC



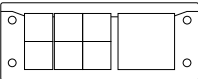
Part No.	48241.600	Height	17 mm
EAN	4251269325755	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	10	No. of screw holes	4
Max. cable diameter	16 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	(S)VOC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

KEL-ER 24|7 CR



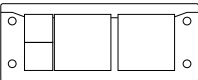
Part No.	48247.601	Height	17 mm
EAN	4251269325915	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	7	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	(S)VOC tested	nein
		Suitable for grommets	6 x KT small 1 x KT large

KEL-ER 24|7 CR  
(S)VOC



Part No.	48247.600	Height	17 mm
EAN	4251269325779	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	(S)VOC tested	ja
		Suitable for grommets	6 x KT small 1 x KT large

KEL-ER 24|4 CR



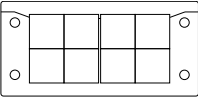
Part No.	48244.601	Height	17 mm
EAN	4251269325908	Mounting height	17 mm
Package quantity	5	Cut-out size	112 × 36 mm
For max. no. of cables	4	No. of screw holes	4
Max. cable diameter	35 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Mild steel, galvanically zinc plated
Width	58 mm	(S)VOC tested	nein
		Suitable for grommets	2 x KT small 2 x KT large

KEL-ER 24|4 CR  
(S)VOC



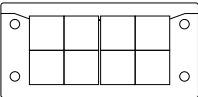
Part No.	<b>48244.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325762</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>112 × 36 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>2 x KT small</b> <b>2 x KT large</b>

KEL-ER 16|8 CR



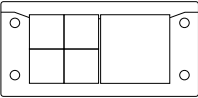
Part No.	<b>48168.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325847</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>8 x KT small</b>

KEL-ER 16|8 CR  
(S)VOC



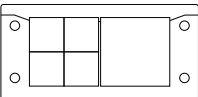
Part No.	<b>48168.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325700</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>8</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>8 x KT small</b>

KEL-ER 16|5 CR



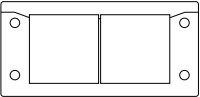
Part No.	<b>48165.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325830</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>4 x KT small</b> <b>1 x KT large</b>

KEL-ER 16|5 CR  
(S)VOC



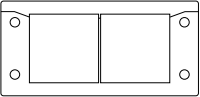
Part No.	<b>48165.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325694</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>5</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>4 x KT small</b> <b>1 x KT large</b>

KEL-ER 16|2 CR



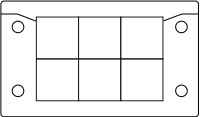
Part No.	<b>48162.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325823</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>2 x KT large</b>

KEL-ER 16|2 CR  
(S)VOC



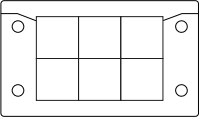
Part No.	<b>48162.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325687</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>86 × 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>2 x KT large</b>

KEL-ER 10|6 CR



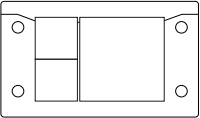
Part No.	<b>48216.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325885</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>6 x KT small</b>

KEL-ER 10|6 CR  
(S)VOC



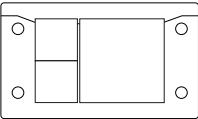
Part No.	<b>48216.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325748</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>6 x KT small</b>

KEL-ER 10|3 CR



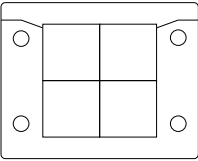
Part No.	<b>48212.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325878</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm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

KEL-ER 10|3 CR  
(S)VOC



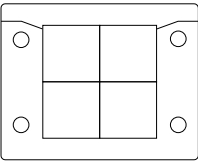
Part No.	<b>48212.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325731</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>65 × 36 mm</b>
For max. no. of cables	<b>3</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>98 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>2 x KT small</b> <b>1 x KT large</b>

KEL-ER-B4 CR



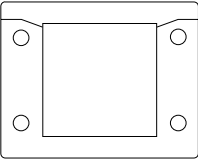
Part No.	<b>48204.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325854</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>4 x KT small</b>

KEL-ER-B4 CR (S)VOC



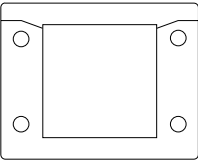
Part No.	<b>48204.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325717</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>4</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>16 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>4 x KT small</b>

KEL-ER-B1 CR



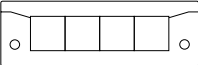

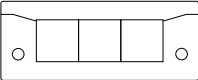


Part No.	<b>48206.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325861</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	Cut-out size	<b>46 × 46 mm</b>
For max. no. of cables	<b>1</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>73 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Width	<b>58 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>1 x KT large</b>

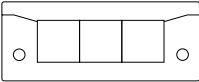
KEL-ER-B1 CR (S)VOC



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>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>1 x KT large</b>

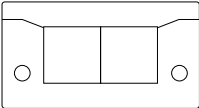
KEL-ER-E5 CR				
				
Part No.		48250.601	Height	17 mm
EAN		4251269325939	Mounting height	17 mm
Package quantity		5	Cut-out size	112 × 24 mm
For max. no. of cables		5	No. of screw holes	2
Max. cable diameter		16 mm	Diam. of screw holes	5,8 mm
Length		147 mm	Screw material	Mild steel, galvanically zinc plated
Width		39 mm	(S)VOC tested	nein
			Suitable for grommets	5 x KT small
KEL-ER-E5 CR (S)VOC				
				
Part No.		48250.600	Height	17 mm
EAN		4251269325793	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	(S)VOC tested	ja
			Suitable for grommets	5 x KT small
KEL-ER-E4 CR				
				
Part No.		48259.601	Height	17 mm
EAN		4251269325953	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	(S)VOC tested	nein
			Suitable for grommets	4 x KT small
KEL-ER-E4 CR (S)VOC				
				
Part No.		48259.600	Height	17 mm
EAN		4251269325816	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	(S)VOC tested	ja
			Suitable for grommets	4 x KT small
KEL-ER-E3 CR				
				
Part No.		48258.601	Height	17 mm
EAN		4251269325946	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	(S)VOC tested	nein
			Suitable for grommets	3 x KT small

KEL-ER-E3 CR (S)VOC



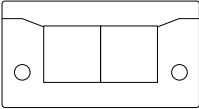
Part No.	<b>48258.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325809</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</b>	No. of screw holes	<b>2</b>
For max. no. of cables	<b>3</b>	Diam. of screw holes	<b>5,8 mm</b>
Max. cable diameter	<b>16 mm</b>	Screw material	<b>Mild steel, galvanically zinc plated</b>
Length	<b>98 mm</b>	(S)VOC tested	<b>ja</b>
Width	<b>39 mm</b>	Suitable for grommets	<b>3 x KT small</b>

KEL-ER-E2 CR



Part No.	<b>48249.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269325922</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</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>Mild steel, galvanically zinc plated</b>
Width	<b>39 mm</b>	(S)VOC tested	<b>nein</b>
		Suitable for grommets	<b>2 x KT small</b>

KEL-ER-E2 CR (S)VOC



Part No.	<b>48249.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325786</b>	Mounting height	<b>17 mm</b>
Package quantity	<b>5</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>Mild steel, galvanically zinc plated</b>
Width	<b>39 mm</b>	(S)VOC tested	<b>ja</b>
		Suitable for grommets	<b>2 x KT small</b>