

# KEL-U CR split cable entry frames

for the use in cleanrooms / IP54 / UL Type 12



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 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-U-B CR frame matches the cut-out dimensions of 46 x 46 mm measuring instruments.

The single-row versions KELE 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.**

IP54

UL TYPE 12

UL US

RIIA

HL3 EN 45545-2

EN 61373

ECOLAB certified

UV ISO 4892-2A

EN ISO 14644

PNEUMATICS

RoHS compliant

REACH COMPLIANCE

Made in Germany

## Specifications

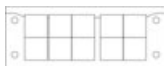
IP rating (EN 60529)	IP54
UL Type (UL 50E)	UL Type 12
Material	Polyamide
Flame class	UL94-V0, self-extinguishing
Operating temperature	-40 C° to 140 C°
Properties	vibration proof, UV-resistant, silicone free, anti-corrosive (V2A versions), halogen free
Mounting options	Snap-in with KEL-SNAP, Screw type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

## Advantages & benefits

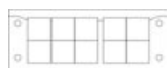
- Fast and easy assembly
- Warranty on pre-terminated cables remains
- Retrofits, repairs and maintenance can be done much more easily and quickly
- High cable density, wide variety of grommets
- Strain relief according to EN 62444
- High stability, vibration resistant
- Space-saving shape
- Greatly increased cable density when using double or quadruple grommets

## Product types & sizes

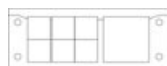
KEL-U 24|10 CR



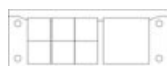
Part No.	54241.601	Height	17 mm
EAN	4251269326134	Mounting height	17 mm
PU	5	Cut-out size	112 x 36 mm
For max. no. of cables	40	No. of screw holes	4
Max. cable diameter	17 mm	Diam. of screw holes	5,8 mm
Length	147 mm	Screw material	Stahl, galvanisch verzinkt
Width	58 mm	Suitable for grommets	10 x KT small

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

Part No.	<b>54241.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269326035</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>40</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>17 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>10 x KT small</b>

**KEL-U 24|7 CR**

Part No.	<b>54247.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269326158</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>25</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-U 24|7 CR (S)VOC**

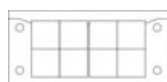
Part No.	<b>54247.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269326059</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>25</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>6 x KT small 1 x KT large</b>

**KEL-U 24|4 CR**

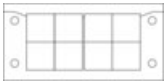
Part No.	<b>54244.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269326141</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small 2 x KT large</b>

**KEL-U 24|4 CR (S)VOC**

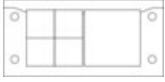
Part No.	<b>54244.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269326042</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>112 x 36 mm</b>
For max. no. of cables	<b>6</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>147 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT small 2 x KT large</b>

**KEL-U 16|8 CR**

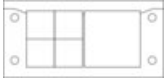
Part No.	<b>54168.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269326080</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>32</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>17 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>8 x KT small</b>

**KEL-U 16|8 CR (S)VOC**

Part No.	<b>54168.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325984</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>32</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>17 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-U 16|5 CR**

Part No.	<b>54165.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269326073</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>17</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-U 16|5 CR (S)VOC**

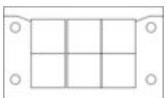
Part No.	<b>54165.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325977</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>17</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>4 x KT small 1 x KT large</b>

**KEL-U 16|2 CR**

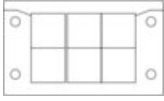
Part No.	<b>54162.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269326066</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>86 x 36 mm</b>
For max. no. of cables	<b>2</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>35 mm</b>	Diam. of screw holes	<b>5,8 mm</b>
Length	<b>120 mm</b>	Screw material	<b>Stahl, galvanisch verzinkt</b>
Width	<b>58 mm</b>	Suitable for grommets	<b>2 x KT large</b>

**KEL-U 16|2 CR (S)VOC**

Part No.	<b>54162.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269325960</b>	Mounting height	<b>17 mm</b>
PU	<b>5</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>

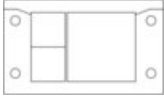
**KEL-U 10|6 CR**

Part No.	<b>54216.601</b>	Height	<b>17 mm</b>
EAN	<b>4251269326127</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>65 x 36 mm</b>
For max. no. of cables	<b>24</b>	No. of screw holes	<b>4</b>
Max. cable diameter	<b>17 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-U 10|6 CR (S)VOC**

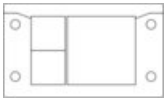
Part No. **54216.600**  
 EAN **4251269326028**  
 PU **5**  
 For max. no. of cables **24**  
 Max. cable diameter **17 mm**  
 Length **98 mm**  
 Width **58 mm**

Height **17 mm**  
 Mounting height **17 mm**  
 Cut-out size **65 x 36 mm**  
 No. of screw holes **4**  
 Diam. of screw holes **5,8 mm**  
 Screw material **Stahl, galvanisch verzinkt**  
 Suitable for grommets **6 x KT small**

**KEL-U 10|3 CR**

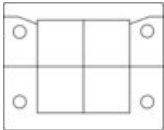
Part No. **54212.601**  
 EAN **4251269326110**  
 PU **5**  
 For max. no. of cables **9**  
 Max. cable diameter **35 mm**  
 Length **98 mm**  
 Width **58 mm**

Height **17 mm**  
 Mounting height **17 mm**  
 Cut-out size **65 x 36 mm**  
 No. of screw holes **4**  
 Diam. of screw holes **5,8 mm**  
 Screw material **Stahl, galvanisch verzinkt**  
 Suitable for grommets **2 x KT small**  
**1 x KT large**

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

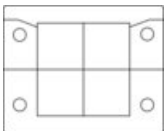
Part No. **54212.600**  
 EAN **4251269326011**  
 PU **5**  
 For max. no. of cables **9**  
 Max. cable diameter **35 mm**  
 Length **98 mm**  
 Width **58 mm**

Height **17 mm**  
 Mounting height **17 mm**  
 Cut-out size **65 x 36 mm**  
 No. of screw holes **4**  
 Diam. of screw holes **5,8 mm**  
 Screw material **Stahl, galvanisch verzinkt**  
 Suitable for grommets **2 x KT small**  
**1 x KT large**

**KEL-U-B4 CR**

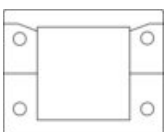
Part No. **54204.601**  
 EAN **4251269326097**  
 PU **5**  
 For max. no. of cables **16**  
 Max. cable diameter **17 mm**  
 Length **73 mm**  
 Width **58 mm**

Height **17 mm**  
 Mounting height **17 mm**  
 Cut-out size **46 x 46 mm**  
 No. of screw holes **4**  
 Diam. of screw holes **5,8 mm**  
 Screw material **Stahl, galvanisch verzinkt**  
 Suitable for grommets **4 x KT small**

**KEL-U-B4 CR (S)VOC**

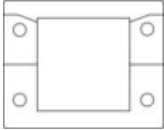
Part No. **54204.600**  
 EAN **4251269325991**  
 PU **5**  
 For max. no. of cables **16**  
 Max. cable diameter **17 mm**  
 Length **73 mm**  
 Width **58 mm**

Height **17 mm**  
 Mounting height **17 mm**  
 Cut-out size **46 x 46 mm**  
 No. of screw holes **4**  
 Diam. of screw holes **5,8 mm**  
 Screw material **Stahl, galvanisch verzinkt**  
 Suitable for grommets **4 x KT small**

**KEL-U-B1 CR**

Part No. **54206.601**  
 EAN **4251269326103**  
 PU **5**  
 For max. no. of cables **1**  
 Max. cable diameter **35 mm**  
 Length **73 mm**  
 Width **58 mm**

Height **17 mm**  
 Mounting height **17 mm**  
 Cut-out size **46 x 46 mm**  
 No. of screw holes **4**  
 Diam. of screw holes **5,8 mm**  
 Screw material **Stahl, galvanisch verzinkt**  
 Suitable for grommets **1 x KT large**

**KEL-U-B1 CR (S)VOC**

Part No.	<b>54206.600</b>	Height	<b>17 mm</b>
EAN	<b>4251269326004</b>	Mounting height	<b>17 mm</b>
PU	<b>5</b>	Cut-out size	<b>46 x 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>