

4.1 EMC Cable Shield Grounding

Shield Clamps & Grounding Components

RoHS compliant Made in Germany

For process measurement and control equipment an increasingly higher level of protection against failure is required. Grounding of the cable shields is very important.

The area where the cable shield is connected to the enclosure ground is a critical point. It is very important that the connection has a low resistance.

icotek products provide a great solution for low resistance grounding. The SKL shield clamps offer a large contact area to the cable shield (see figure A).

In comparison to conventional shield brackets (see figure B) an up to 50% higher contact area can be achieved when using the SKL line. The specified clamping range can be exceeded up to 10%.

In high frequency fields, the SKL shield clamps provide low resistance. Effective range up to 1,000 MHz below 120 Ohms and 10 kHz to 100 MHz significant below 20 Ohms.

MSKL type with large clamping range

Available in various sizes

High cable density possible

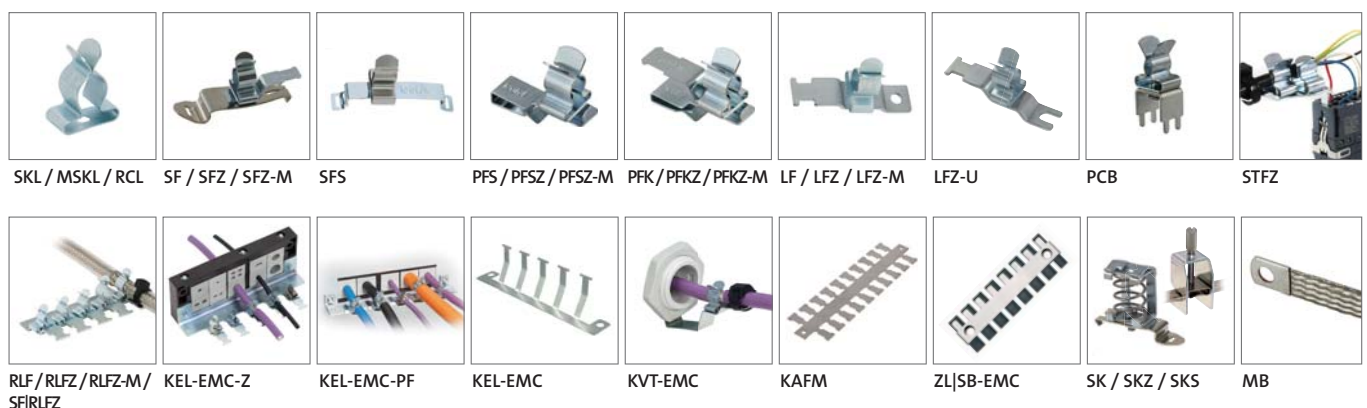
Vibration resistance and twist protection due to solid rivets

Wide variety in mounting types: DIN rail / C-rail snap mount, screw mount, ...

Large contact area to the cable shield. Shield and cable strands won't be squeezed

Secure hold for cable ties and cables, strain relief acc. to EN 62444

Product Range



Chapter Content 4.1



Shield clamps with large clamping range
various mounting types

MSKL

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Shield clamps, single

SKL / RCL|SKL

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Shield clamps
for 35 mm DIN rail snap mount

SFZ|SKL / SF|SKL / SFS|SKL

111 - 115



Shield clamps
for 10 x 3 mm bus bar snap mount

PFSZ|SKL / PFS|SKL / PFSZ2|SKL /
PFS2|SKL / PFS|SCL

114 - 119



Shield clamps
for screw mount & C-rails

LFZ|SKL / LFZ-U|SKL / LF|SKL

120 - 122



Shield clamps
pluggable on sheet metal

PFKZ|SKL / PFK|SKL
PFKZ2|SKL / PFK2|SKL

124 - 127



Shield clamps
for printed circuit boards

PCB|SKL

128



Shield clamps
for decentralized bus modules

STFZ|SKL / STFZ2|SKL / STFZ-U|SKL /
STFZ-SP|SKL / STFZ2-SP|SKL

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Assortment of SKL shield clamps

EMC ServiceBox multi
EMC ServiceBox

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EMC Shield clamp assemblies

RLFZ(-M) - clamp assembly for screw mount
SC|RLFZ(-M) - clamp assembly for C-rails
SF|RLFZ - clamp assembly for DIN-rails
RLF - clamp assembly
without strain relief

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EMC grounding mounts
as accessories for cable entry components

KEL-EMC-Z / KEL-EMC-PF / KEL-EMC /
KVT-EMC

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Shield brackets
various mounting types

SK / SKZ / SKS

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EMC strain relief plates
various mounting types

KAFM

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Shield plates
as accessories for ZL strain relief plates

ZL|SB-EMC

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Ground straps

MB

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MSKL

EMC Shield Clamps with Large Clamping Range



MSKL 3-12
Cable shielding for diameters 3 - 12 mm with only one clamp size.



LFZ-M|MSKL



SF|MSKL

Product Description

The shield clamps MSKL are easy to use and effective in grounding single cable shields.

Due to its special design the clamping ranges of the MSKL are very large while the dimensions are comparatively small. (Example: MSKL 3-12, assembled with a 12 mm cable shield: width 26.25 mm).

MSKL, single

Single shield clamps can be individually attached via rivets.

LFZ-M|MSKL & LF|MSKL

LFZ-M|MSKL and LF|MSKL shield clamps can be attached on sheet metal (e.g. mounting plates) using M4 screws. The type LFZ-M|MSKL allows cables to be secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

SFZ-M|MSKL & SF|MSKL

SFZ-M|MSKL and SF|MSKL shield clamps can be easily attached by snapping them onto 35 mm DIN rails. The type SFZ-M|MSKL allows cables to be secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

Type	Order No.	Clamping range [mm]	Dimensions L x W x H [mm]	Mounting type	PU
MSKL, single, for riveting:					
MSKL 3-12	37600	3 - 12 mm 0.118 - 0.472 "	8 x 15.1 x 20.5 0.315 x 0.594 x 0.807	Rivet, Fixing hole 3.2 mm / 0.126 "	50
MSKL 8-18	37602	8 - 18 mm 0.315 - 0.709 "	8 x 20 x 27 0.315 x 0.787 x 1.063	Rivet, Fixing hole 3.2 mm / 0.126 "	50

MSKL for screw mounting (M4):



LFZ-M|MSKL



LF|MSKL

LFZ-M MSKL 3-12 with strain relief	37612	3 - 12 mm 0.118 - 0.472 "	46.3 x 15.1 x 26 1.823 x 0.594 x 1.024 "	Screw, Fixing hole 4.2 mm / 0.165 "	10
LFZ-M MSKL 8-18 with strain relief	37614	8 - 18 mm 0.315 - 0.709 "	46.3 x 20 x 32 1.823 x 0.787 x 1.26 "	Screw, Fixing hole 4.2 mm / 0.165 "	10
LF MSKL 3-12	37608	3 - 12 mm 0.118 - 0.472 "	24 x 15.1 x 26 0.945 x 0.594 x 1.024 "	Screw, Fixing hole 4.2 mm / 0.165 "	10
LF MSKL 8-18	37610	8 - 18 mm 0.315 - 0.709 "	24 x 20 x 32 0.945 x 0.787 x 1.26 "	Screw, Fixing hole 4.2 mm / 0.165 "	10

MSKL for snap mounting on 35 mm DIN rail shape H:

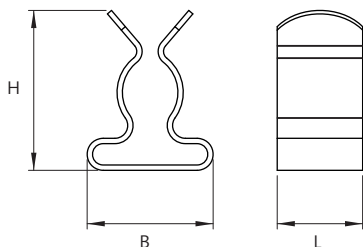


SFZ-M|MSKL



SF|MSKL

SFZ-M MSKL 3-12 with strain relief	37620	3 - 12 mm 0.118 - 0.472 "	60.5 x 15.1 x 26 2.382 x 0.594 x 1.024 "	35 mm / 1.378 ", DIN rail shape H	10
SFZ-M MSKL 8-18 with strain relief	37622	8 - 18 mm 0.315 - 0.709 "	60.5 x 20 x 32 2.382 x 0.787 x 1.26 "	35 mm / 1.378 ", DIN rail shape H	10
SF MSKL 3-12	37616	3 - 12 mm 0.118 - 0.472 "	50.5 x 15.1 x 26 1.988 x 0.594 x 1.024 "	35 mm / 1.378 ", DIN rail shape H	10
SF MSKL 8-18	37618	8 - 18 mm 0.315 - 0.709 "	50.5 x 20 x 32 1.988 x 0.787 x 1.26 "	35 mm / 1.378 ", DIN rail shape H	10



MSKL

EMC Shield Clamps with Large Clamping Range





PFSZ-M|MSKL



PFKZ-M|MSKL



Type	Order No.	Clamping range [mm]	Dimensions L x W x H [mm]	Mounting type	PU
<p>MSKL for snap mounting on 10 x 3 mm / 0.394 x 0.118 " bus bars:</p>  <p>PFSZ-M MSKL</p>					
PFSZ-M MSKL 3-12 with strain relief	37630	3 - 12 mm 0.118 - 0.472 "	38 x 15.1 x 28.7 1.496 x 0.594 x 1.13 "	10 x 3 mm / 0.394 x 0.118 " Bus bar	10
PFSZ-M MSKL 8-18 with strain relief	37632	8 - 18 mm 0.315 - 0.709 "	38 x 20 x 34.9 1.496 x 0.787 x 1.374 "	10 x 3 mm / 0.394 x 0.118 " Bus bar	10
Bus bar 10 x 3 mm	36100		1000 x 10 x 3* 39.37 x 0.394 x 0.118 "		1
<p>MSKL for plugging on sheet metal edges:</p>  <p>PFKZ-M MSKL</p>					
PFKZ-A-M MSKL 3-12 with strain relief	37640	3 - 12 mm 0.118 - 0.472 "	38 x 15.1 x 28.8 1.496 x 0.594 x 1.134 "	sheet edges, thickness 1.5 - 2 mm / 0.059 x 0.079 "	10
PFKZ-A-M MSKL 8-18 with strain relief	37642	8 - 18 mm 0.315 - 0.709 "	38 x 20 x 35 1.496 x 0.787 x 1.378 "	sheet edges, thickness 1.5 - 2 mm / 0.059 x 0.079 "	10
PFKZ-B-M MSKL 3-12 with strain relief	37650	3 - 12 mm 0.118 - 0.472 "	38 x 15.1 x 28.8 1.496 x 0.594 x 1.134 "	sheet edges, thickness 2 - 3 mm / 0.079 x 0.118 "	10
PFKZ-B-M MSKL 8-18 with strain relief	37652	8 - 18 mm 0.315 - 0.709 "	38 x 20 x 35 1.496 x 0.787 x 1.378 "	sheet edges, thickness 2 - 3 mm / 0.079 x 0.118 "	10

* Other lengths available on request

PFSZ-M|MSKL

PFSZ-M|MSKL shield clamps can be easily attached by snapping them onto 10 x 3 mm bus bars. The design allows cables to be secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

PFKZ-M|MSKL

PFKZ-M|MSKL shield clamps are used where a screw connection is either not possible or wanted. The PFKZ-M|MSKL is simply clamped on the sheet. The claws provide a secure grip, even in case of vibrations. The design allows cables to be secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

Advantages & Benefits

- Large clamping areas, therefore less product sizes needed to cover a large cable diameter range
- Space-saving design, even when fully assembled
- Large contact area
- Simple mounting, easy assembly
- Partially with integrated strain relief
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free

Specifications

Material

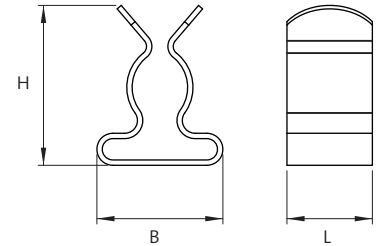
MSKL-clamp	Spring steel, zinc plated
LF/LFZ-M-foot	Carbon steel, galvanically zinc plated
SF/SFZ-M/PFSZ-M/	
PFKZ-M-foot	Spring steel

Accessories

KEL-EMC-PF Bracket	139
MF Supports for bus bars	187

SKL | RCL|SKL

Single EMC Shield Clamps EMC Shield Clamps on Cable Lugs



Product Description

SKL shield clamps are easy to use and effective in grounding single cable shields.

Shield clamps can be easily attached via rivet.

Advantages & Benefits

- Large contact area
- Easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free
- Designed for high density applications

Specifications

Material
SKL-clamp Spring steel, zinc plated

Type	Order No.	Clamping range [mm]	Dimensions L x B x H [mm]	Fixing hole	PU
MSKL 3-12	37600	3 - 12 mm 0.118 - 0.472 "	8 x 15.1 x 20.5 0.315 x 0.594 x 0.807 "	3.2 mm 0.126 "	50
MSKL 8-18	37602	8 - 18 mm 0.315 - 0.709 "	8 x 20 x 27 0.315 x 0.787 x 1.063 "	3.2 mm 0.126 "	50
SKL 1.5-3	36200	1.5 - 3 mm 0.059 - 0.118 "	8 x 11.8 x 13 0.315 x 0.465 x 0.512 "	3.1 mm 0.122 "	50
SKL 3-6	36202	3 - 6 mm 0.118 - 0.236 "	8 x 11.8 x 13.6 0.315 x 0.465 x 0.535 "	3.1 mm 0.122 "	50
SKL 6-8	36204	6 - 8 mm 0.236 - 0.315 "	8 x 11.8 x 15 0.315 x 0.465 x 0.591 "	3.1 mm 0.122 "	50
SKL 8-11	36205	8 - 11 mm 0.315 - 0.433 "	8 x 14 x 20 0.315 x 0.551 x 0.787 "	3.1 mm 0.122 "	50
SKL 11-17	36206	11 - 17 mm 0.433 - 0.669 "	8 x 21 x 27.5 0.315 x 0.827 x 1.083 "	3.1 mm 0.122 "	50
SKL 17-22	36207	17 - 22 mm 0.669 - 0.866 "	8 x 26.5 x 34.5 0.315 x 1.043 x 1.358 "	3.1 mm 0.122 "	50
SKL 22-30	36208	22 - 30 mm 0.866 - 1.181 "	8 x 35 x 39.5 0.315 x 1.378 x 1.555 "	3.1 mm 0.122 "	50
SKL 30-38	36209	30 - 38 mm 1.181 - 1.496 "	11 x 48.3 x 54.7 0.433 x 1.902 x 2.154 "	5.2 mm 0.205 "	5
SKL 38-48	36213	38 - 48 mm 1.496 - 1.89 "	13 x 55 x 67 0.512 x 2.165 x 2.638 "	2 x 5.2 mm / 0.205 " Hole spacing: 9.2 mm / 0.362 "	5

Type	Order No.	Shield diameter	PU
NEW RCL 0.5-1.5mm² SKL 1.5-3	36296.1	1.5 - 3 mm 0.059 - 0.118 "	25
RCL 0.5-1.5mm² MSKL 3-12	36296.2	3 - 12 mm 0.118 - 0.472 "	25
RCL 1.0-2.5mm² SKL 1.5-3	36297.1	1.5 - 3 mm 0.059 - 0.118 "	25
RCL 1.0-2.5mm² MSKL 3-12	36297.2	3 - 12 mm 0.118 - 0.472 "	25
RCL 4-6mm² SKL 1.5-3	36298.1	1.5 - 3 mm 0.059 - 0.118 "	25
RCL 4-6mm² MSKL 3-12	36298.2	3 - 12 mm 0.118 - 0.472 "	25



SFZ|SKL

EMC Shield Clamps for 35 mm DIN Rail



Type	Order No.	Shield diameter	PU
SFZ-M MSKL 3-12	37620	3 - 12 mm 0.118 - 0.472 "	10
SFZ-M MSKL 8-18	37622	8 - 18 mm 0.315 - 0.709 "	10
SFZ SKL 1.5-3	36850	1.5 - 3 mm 0.059 - 0.118 "	10
SFZ SKL 3-6	36855	3 - 6 mm 0.118 - 0.236 "	10
SFZ SKL 6-8	36860	6 - 8 mm 0.236 - 0.315 "	10
SFZ SKL 8-11	36865	8 - 11 mm 0.315 - 0.433 "	10
SFZ SKL 11-17	36870	11 - 17 mm 0.433 - 0.669 "	10
SFZ SKL 17-22	36875	17 - 22 mm 0.669 - 0.866 "	10
SFZ SKL 22-30	36880	22 - 30 mm 0.866 - 1.181 "	10
SFZ SKL 30-38	NEW 36885	30 - 38 mm 1.181 - 1.496 "	10

Product Description

The shield clamps SFZ|SKL are easy to use and effective in grounding single cable shields in combination with strain relief.

Cables are secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

For assembly on 35 mm DIN rails.

Advantages & Benefits

- Simple and tool-free mounting, easy assembly
- Shock and vibration resistant, maintenance free
- Strain relief of the cable and grounding in a single device
- Large contact area
- The spring design requires no adjustments and will permanently maintain contact to the cable shield

4.1

Specifications

Material

SKL-clamp Spring steel, zinc plated
SF- / SFZ-foot Spring steel

SF|SKL

EMC Shield Clamps for 35 mm DIN Rail



SF|SKL



SF|SKL 38-48



Product Description

The shield clamps SF|SKL are easy to use and effective in grounding single cable shields.

For assembly on 35 mm DIN rails.

Advantages & Benefits

- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Designed for high density applications
- Shock and vibration resistant, maintenance free

Specifications

Material	
SKL-clamp	Spring steel, zinc plated
SF-foot	Spring steel

Type	Order No.	Shield diameter	PU
SF MSKL 3-12	37616	3 - 12 mm 0.118 - 0.472 "	10
SF MSKL 8-18	37618	8 - 18 mm 0.315 - 0.709 "	10
SF SKL 1.5-3	36243	1.5 - 3 mm 0.059 - 0.118 "	10
SF SKL 3-6	36244	3 - 6 mm 0.118 - 0.236 "	10
SF SKL 6-8	36245	6 - 8 mm 0.236 - 0.315 "	10
SF SKL 8-11	36246	8 - 11 mm 0.315 - 0.433 "	10
SF SKL 11-17	36247	11 - 17 mm 0.433 - 0.669 "	10
SF SKL 17-22	36248	17 - 22 mm 0.669 - 0.866 "	10
SF SKL 22-30	36249	22 - 30 mm 0.866 - 1.181 "	10
SF SKL 30-38	36250	30 - 38 mm 1.181 - 1.496 "	10
SF SKL 38-48	36252	38 - 48 mm 1.496 - 1.89 "	10
SF single M4	36230	Snap foot, single with screw thread M4	10
SF single M5	36221	Snap foot, single with screw thread M5	10



SF single

4.1

SFS|SKL

EMC Shield Clamps for 35 mm DIN Rail



Type	Order No.	Shield diameter	PU
SFS SKL 1.5-3	36810	1.5 - 3 mm 0.059 - 0.118 "	10
SFS SKL 3-6	36815	3 - 6 mm 0.118 - 0.236 "	10
SFS SKL 6-8	36820	6 - 8 mm 0.236 - 0.315 "	10
SFS single	36229	Snap foot single	10

Product Description

Comparable with type SF|SKL, the SFS|SKL shield clamps are easily mounted on 35 mm DIN-rails.

The staggered arrangement of SFS|SKL maximizes space utilization. Suitable for applications that require EMC shielding close to connection points or controller inputs.

Advantages & Benefits

- Designed for high density applications
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Large contact area
- Shock and vibration resistant, maintenance free

4.1

Specifications

Material

SKL-clamp **Spring steel, zinc plated**
SFS-foot **Spring steel**



SFS single

PFSZ|SKL

EMC Shield Clamps for Bus Bar



Product Description

Comparable with the PFS|SKL range, the PFSZ|SKL shield clamps are easy to use and effective in grounding single cable shields. They are used for mounting on 10 x 3 mm bus bars.

The PFSZ range provides the possibility to fix the cable with a cable tie. Strain relief in accordance with EN 62444 is achieved.

Advantages & Benefits

- Integrated strain relief
- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free

Type	Order No.	Shield diameter	PU
PFSZ-M MSKL 3-12	37630	3 - 12 mm 0.118 - 0.472 "	10
PFSZ-M MSKL 8-18	37632	8 - 18 mm 0.315 - 0.709 "	10
PFSZ SKL 1.5-3	36787.1	1.5 - 3 mm 0.059 - 0.118 "	10
PFSZ SKL 3-6	36787.2	3 - 6 mm 0.118 - 0.236 "	10
PFSZ SKL 6-8	36787.3	6 - 8 mm 0.236 - 0.315 "	10
PFSZ SKL 8-11	36787.4	8 - 11 mm 0.315 - 0.433 "	10
Bus bar 10 x 3 mm / 39.37 x 0.394 "	36100	10 x 3 x 1000 mm* 39.37 x 0.394 x 0.118 "	1

* Other lengths available on request

Specifications

Material

- SKL-clamp **Spring steel, zinc plated**
- PFSZ-foot **Spring steel**
- Bus bar **Cu, tin plated, max. current: 140 Amps**

Accessories

- KEL-EMC-PF Bracket 139
- MF Supports for bus bars 187

4.1

PFS|SKL EMC Shield Clamps for Bus Bar



Type	Order No.	Shield diameter	PU
PFS SKL 1.5-3	36786.1	1.5 - 3 mm 0.059 - 0.118 "	10
PFS SKL 3-6	36786.2	3 - 6 mm 0.118 - 0.236 "	10
PFS SKL 6-8	36786.3	6 - 8 mm 0.236 - 0.315 "	10
PFS SKL 8-11	36786.4	8 - 11 mm 0.315 - 0.433 "	10
PFS SKL 11-17	36786.5	11 - 17 mm 0.433 - 0.669 "	10
PFS SKL 17-22	36786.6	17 - 22 mm 0.669 - 0.866 "	10
Bus bar 10 × 3 mm / 39.37 x 0.394 "	36100	10 × 3 × 1000 mm* 39.37 x 0.394 x 0.118 "	1

* Other lengths available on request

Product Description

PFS|SKL shield clamps care easy to use and effective in grounding single cable shields.

The PFS|SKL is mounted by snapping on a 10 × 3 mm bus bar.

Advantages & Benefits

- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free
- Designed for high density applications

4.1

Specifications

Material

SKL-clamp	Spring steel, zinc plated
PFS-foot	Spring steel
Bus bar	Cu, tin plated, max. current: 140 Amps

Accessories

KEL-EMC-PF Bracket	139
MF Supports for bus bars	187

PFS|SCL

EMC Shield Clamps for Bus Bar



Product Description

The range of shield clamps PFS|SCL are designed for a quick and easy mounting by snapping onto 10x3 mm bus bars. The very slim shape is ideal for applications with limited space.

Type	Order No.	Shield diameter	PU
PFS SCL 1.5 - 3	36611	1.5 - 3 mm 0.059 - 0.118 "	10
PFS SCL 3 - 6	36612	3 - 6 mm 0.118 - 0.236 "	10

Advantages & Benefits

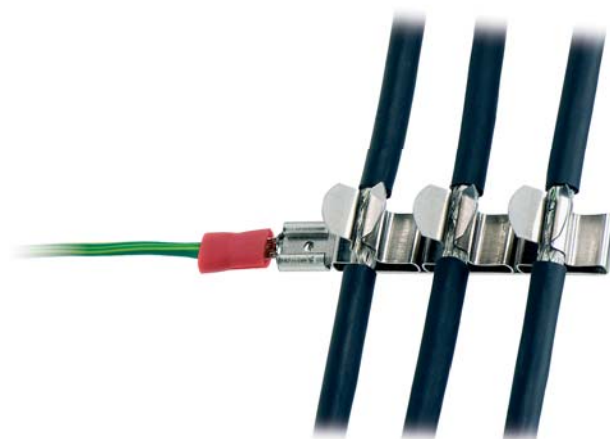
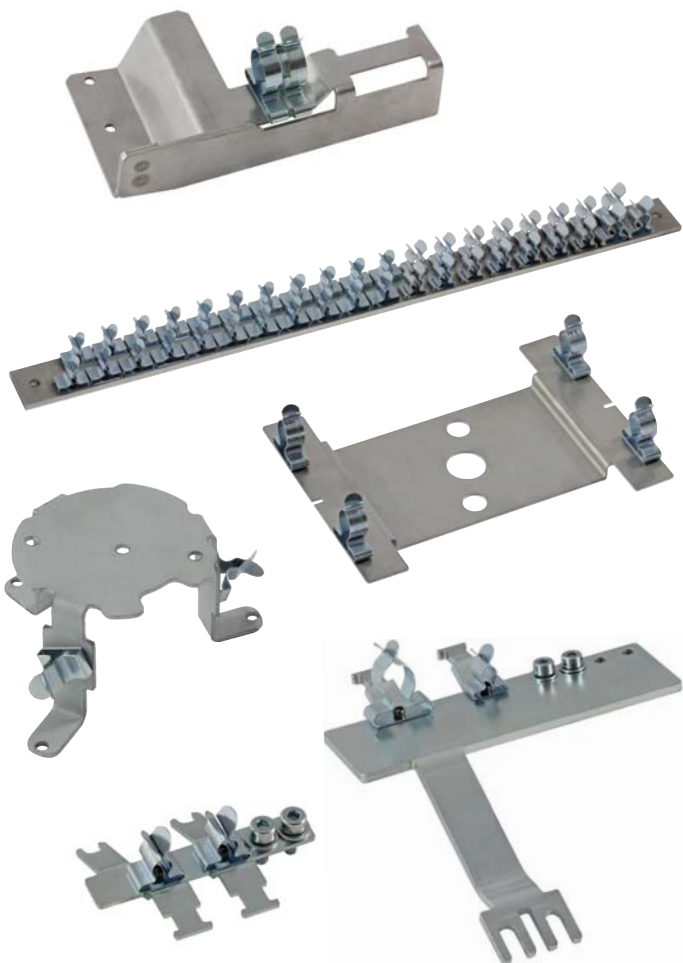
- Extremely slim shape
- Large contact area
- Simple and tool-free assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Cost effective solution

Specifications

Material Spring steel, zinc-plated

4.1

EMC Customized Solutions



Product Description

In addition to our standard product offering we offer customized solutions for your application – even for small quantities!

A wide range of standard clamp assemblies are already available (see pages 134 - 137).

If a standard EMC clamp assembly is not practicable in your case, a custom designed carrier for shield clamps can be supplied.

We look forward to sharing our ideas and custom EMC solutions with you.

Advantages & Benefits

- Supply of custom designed carriers for SKL shield clamps
- Cost-effective even for small quantities
- Available for a wide range of cable diameters



PFSZ2|SKL

EMC Double Shield Clamps for Bus Bar



Product Description

Comparable with the PFS2|SKL range, the PFSZ2|SKL shield clamps are easy to use and effective in grounding 2 single cables. They are used for mounting on 10 x 3 mm bus bars.

The PFSZ2 range provides possibility to fix the cables with cable ties. Strain relief in accordance with EN 62444 is achieved.

Advantages & Benefits

- Integrated strain relief
- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free

Specifications

Material

SKL-clamp **Spring steel, zinc plated**
 PFSZ2-foot **Spring steel**
 Bus bar **Cu, tin plated, max. current: 140 Amps**

Accessories

MF Supports for bus bars 187

Type	Shield diameter Pos. 1	Shield diameter Pos. 2	Order No.	PU
PFSZ2 SKL 01	blank	1.5 - 3 mm / 0.059 - 0.118 "	36789.01	10
PFSZ2 SKL 02	blank	3 - 6 mm / 0.118 - 0.236 "	36789.02	10
PFSZ2 SKL 03	blank	6 - 8 mm / 0.236 - 0.315 "	36789.03	10
PFSZ2 SKL 04	blank	8 - 11 mm / 0.315 - 0.433 "	36789.04	10
PFSZ2 SKL 10	1.5 - 3 mm / 0.059 - 0.118 "	blank	36789.10	10
PFSZ2 SKL 11	1.5 - 3 mm / 0.059 - 0.118 "	1.5 - 3 mm / 0.059 - 0.118 "	36789.11	10
PFSZ2 SKL 12	1.5 - 3 mm / 0.059 - 0.118 "	3 - 6 mm / 0.118 - 0.236 "	36789.12	10
PFSZ2 SKL 13	1.5 - 3 mm / 0.059 - 0.118 "	6 - 8 mm / 0.236 - 0.315 "	36789.13	10
PFSZ2 SKL 14	1.5 - 3 mm / 0.059 - 0.118 "	8 - 11 mm / 0.315 - 0.433 "	36789.14	10
PFSZ2 SKL 20	3 - 6 mm / 0.118 - 0.236 "	blank	36789.20	10
PFSZ2 SKL 21	3 - 6 mm / 0.118 - 0.236 "	1.5 - 3 mm / 0.059 - 0.118 "	36789.21	10
PFSZ2 SKL 22	3 - 6 mm / 0.118 - 0.236 "	3 - 6 mm / 0.118 - 0.236 "	36789.22	10
PFSZ2 SKL 23	3 - 6 mm / 0.118 - 0.236 "	6 - 8 mm / 0.236 - 0.315 "	36789.23	10
PFSZ2 SKL 24	3 - 6 mm / 0.118 - 0.236 "	8 - 11 mm / 0.315 - 0.433 "	36789.24	10
PFSZ2 SKL 30	6 - 8 mm / 0.236 - 0.315 "	blank	36789.30	10
PFSZ2 SKL 31	6 - 8 mm / 0.236 - 0.315 "	1.5 - 3 mm / 0.059 - 0.118 "	36789.31	10
PFSZ2 SKL 32	6 - 8 mm / 0.236 - 0.315 "	3 - 6 mm / 0.118 - 0.236 "	36789.32	10
PFSZ2 SKL 33	6 - 8 mm / 0.236 - 0.315 "	6 - 8 mm / 0.236 - 0.315 "	36789.33	10
PFSZ2 SKL 34	6 - 8 mm / 0.236 - 0.315 "	8 - 11 mm / 0.315 - 0.433 "	36789.34	10
PFSZ2 SKL 40	8 - 11 mm / 0.315 - 0.433 "	blank	36789.40	10
PFSZ2 SKL 41	8 - 11 mm / 0.315 - 0.433 "	1.5 - 3 mm / 0.059 - 0.118 "	36789.41	10
PFSZ2 SKL 42	8 - 11 mm / 0.315 - 0.433 "	3 - 6 mm / 0.118 - 0.236 "	36789.42	10
PFSZ2 SKL 43	8 - 11 mm / 0.315 - 0.433 "	6 - 8 mm / 0.236 - 0.315 "	36789.43	10

Bus bar 10 x 3 mm / 0.394 x 0.118 "	10 x 3 x 1000 mm* / 0.394 x 0.118 x 39.37 "	36100	1
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* Other lengths available on request

PFS2|SKL EMC Double Shield Clamps for Bus Bar



Type	Shield diameter Pos. 1	Shield diameter Pos. 2	Order No.	PU
PFS2 SKL 01	blank	1.5 - 3 mm / 0.059 - 0.118 "	36788.01	10
PFS2 SKL 02	blank	3 - 6 mm / 0.118 - 0.236 "	36788.02	10
PFS2 SKL 03	blank	6 - 8 mm / 0.236 - 0.315 "	36788.03	10
PFS2 SKL 04	blank	8 - 11 mm / 0.315 - 0.433 "	36788.04	10
PFS2 SKL 10	1.5 - 3 mm / 0.059 - 0.118 "	blank	36788.10	10
PFS2 SKL 11	1.5 - 3 mm / 0.059 - 0.118 "	1.5 - 3 mm / 0.059 - 0.118 "	36788.11	10
PFS2 SKL 12	1.5 - 3 mm / 0.059 - 0.118 "	3 - 6 mm / 0.118 - 0.236 "	36788.12	10
PFS2 SKL 13	1.5 - 3 mm / 0.059 - 0.118 "	3 - 6 mm / 0.118 - 0.236 "	36788.13	10
PFS2 SKL 14	1.5 - 3 mm / 0.059 - 0.118 "	8 - 11 mm / 0.315 - 0.433 "	36788.14	10
PFS2 SKL 20	3 - 6 mm / 0.118 - 0.236 "	blank	36788.20	10
PFS2 SKL 21	3 - 6 mm / 0.118 - 0.236 "	1.5 - 3 mm / 0.059 - 0.118 "	36788.21	10
PFS2 SKL 22	3 - 6 mm / 0.118 - 0.236 "	3 - 6 mm / 0.118 - 0.236 "	36788.22	10
PFS2 SKL 23	3 - 6 mm / 0.118 - 0.236 "	6 - 8 mm / 0.236 - 0.315 "	36788.23	10
PFS2 SKL 24	3 - 6 mm / 0.118 - 0.236 "	8 - 11 mm / 0.315 - 0.433 "	36788.24	10
PFS2 SKL 30	6 - 8 mm / 0.236 - 0.315 "	blank	36788.30	10
PFS2 SKL 31	6 - 8 mm / 0.236 - 0.315 "	1.5 - 3 mm / 0.059 - 0.118 "	36788.31	10
PFS2 SKL 32	6 - 8 mm / 0.236 - 0.315 "	3 - 6 mm / 0.118 - 0.236 "	36788.32	10
PFS2 SKL 33	6 - 8 mm / 0.236 - 0.315 "	6 - 8 mm / 0.236 - 0.315 "	36788.33	10
PFS2 SKL 34	6 - 8 mm / 0.236 - 0.315 "	8 - 11 mm / 0.315 - 0.433 "	36788.34	10
PFS2 SKL 40	8 - 11 mm / 0.315 - 0.433 "	blank	36788.40	10
PFS2 SKL 41	8 - 11 mm / 0.315 - 0.433 "	1.5 - 3 mm / 0.059 - 0.118 "	36788.41	10
PFS2 SKL 42	8 - 11 mm / 0.315 - 0.433 "	3 - 6 mm / 0.118 - 0.236 "	36788.42	10
PFS2 SKL 43	8 - 11 mm / 0.315 - 0.433 "	6 - 8 mm / 0.236 - 0.315 "	36788.43	10

Bus bar 10 × 3 mm / 0.394 x 0.118 "	10 × 3 × 1000 mm* / 0.394 x 0.118 x 39.37 "	36100	1
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* Other lengths available on request

Product Description

PFS2|SKL shield clamps are easy to use and effective in grounding single cable shields.

The PFS2|SKL is mounted by snapping on a 10 × 3 mm bus bar.

Advantages & Benefits

- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free
- Designed for high density applications

Specifications

Material	
SKL-clamp	Spring steel, zinc plated
PFS2-foot	Spring steel
Bus bar	Cu, tin plated, max. current: 140 Amps

Accessories

MF Supports for bus bars 187

LFZ|SKL

EMC Shield Clamps for Screw Assembly



Type SC: Mounted on screw-foot for DIN-rail shape C*

Product Description

LFZ|SKL shield clamps are easy to use and effective in grounding single cable shields.

Cables are secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

LFZ|SKL shield clamps are easily attached to mounting plates via screw or via mounting foot on 30 mm C-rails.

Advantages & Benefits

- Integrated strain relief
- Large contact area
- Easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free

Specifications

Material

- SKL-clamp **Spring steel, zinc plated**
- LFZ-foot **Carbon steel, galvanically zinc plated**
- Fixing hole 4.2 mm for screw M4**
- SC-foot **Carbon steel, galvanically zinc plated**

Type	Order No. for direct mounting	Order No. for C-rails*	Shield diameter	Fixing hole	PU
LFZ-M MSKL 3-12	37612	37612.100	3 - 12 mm 0.118 - 0.472 "	4.2 mm	10
LFZ-M MSKL 8-18	37614	37614.100	8 - 18 mm 0.315 - 0.709 "	4.2 mm	10
LFZ SKL 1.5-3	36910	36910.100	1.5 - 3 mm 0.059 - 0.118 "	4.2 mm	10
LFZ SKL 3-6	36915	36915.100	3 - 6 mm 0.118 - 0.236 "	4.2 mm	10
LFZ SKL 6-8	36920	36920.100	6 - 8 mm 0.236 - 0.315 "	4.2 mm	10
LFZ SKL 8-11	36925	36925.100	8 - 11 mm 0.315 - 0.433 "	4.2 mm	10
LFZ SKL 11-17	36930	36930.100	11 - 17 mm 0.433 - 0.669 "	4.2 mm	10
LFZ SKL 17-22	36935	36935.100	17 - 22 mm 0.669 - 0.866 "	4.2 mm	10
LFZ SKL 22-30	36940	36940.100	22 - 30 mm 0.866 - 1.181 "	4.2 mm	10
NEW LFZ SKL 30-38	36941	36941.100	30 - 38 mm 1.181 - 1.496 "	4.2 mm	10

*Available from November 2018

LFZ-U|SKL

EMC Shield Clamps for Screw Assembly



Type	Order No.	Shield diameter	Fixing hole	PU
LFZ-U SKL for M4 screws:				
LFZ-U4 SKL 1.5-3	36886.1	1.5 - 3 mm 0.059 - 0.118 "	4.2 mm 0.165 "	10
LFZ-U4 SKL 3-6	36886.2	3 - 6 mm 0.118 - 0.236 "	4.2 mm 0.165 "	10
LFZ-U4 SKL 6-8	36886.3	6 - 8 mm 0.236 - 0.315 "	4.2 mm 0.165 "	10
LFZ-U4 SKL 8-11	36886.4	8 - 11 mm 0.315 - 0.433 "	4.2 mm 0.165 "	10
LFZ-U SKL for M5 screws:				
LFZ-U5 SKL 1.5-3	36887.1	1.5 - 3 mm 0.059 - 0.118 "	5.2 mm 0.205 "	10
LFZ-U5 SKL 3-6	36887.2	3 - 6 mm 0.118 - 0.236 "	5.2 mm 0.205 "	10
LFZ-U5 SKL 6-8	36887.3	6 - 8 mm 0.236 - 0.315 "	5.2 mm 0.205 "	10
LFZ-U5 SKL 8-11	36887.4	8 - 11 mm 0.315 - 0.433 "	5.2 mm 0.205 "	10

Product Description

LFZ-U|SKL shield clamps are used, where the shield of single cables must be connected to the ground potential.

LFZ-U|SKL shield clamps are easy to use and effective in grounding single cable shields. Cables are secured with a cable tie. Strain relief in accordance with EN 62444 is achieved.

Shield clamps are easily attached to mounting plates via screw. The shield clamp LFZ-U|SKL is available for M4 or M5 screws. During assembly it is sufficient to loosen the existing screw slightly to be able to slide the clamp underneath before re-tightening the screw.

Advantages & Benefits

- Integrated strain relief
- Large contact area
- Fast and easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free

Specifications

Material	
SKL-clamp	Spring steel, zinc plated
LFZ-foot	Carbon steel, galvanically zinc plated
	Fixing hole 4.2 mm / 5.2 mm for screw M4 / M5

LF|SKL

EMC Shield Clamps for Screw Assembly



Type SC: Mounted on screw-foot for DIN-rail shape C*

Product Description

LF|SKL shield clamps are easy to use and effective in grounding single cable shields.

Shield clamps are easily attached to mounting plates via screw or via mounting foot on 30 mm C-rails.

Advantages & Benefits

- Large contact area
- Easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free
- Designed for high density applications

Specifications

Material	
SKL-clamp	Spring steel, zinc plated
LF-foot	Carbon steel, galvanically zinc plated
	Fixing hole 4.2 mm for screw M4
SC-foot	Carbon steel, galvanically zinc plated

Type	Order No. for direct mounting	Order No. for C-rails*	Shield diameter	Fixing hole	PU
LF MSKL 3-12	37608	37608.100	3 - 12 mm 0.118 - 0.472 "	4.2 mm 0.165 "	10
LF MSKL 8-18	37610	37610.100	8 - 18 mm 0.315 - 0.709 "	4.2 mm 0.165 "	10
LF SKL 1.5-3	36251	36251.100	1.5 - 3 mm 0.059 - 0.118 "	4.2 mm 0.165 "	10
LF SKL 3-6	36253	36253.100	3 - 6 mm 0.118 - 0.236 "	4.2 mm 0.165 "	10
LF SKL 6-8	36255	36255.100	6 - 8 mm 0.236 - 0.315 "	4.2 mm 0.165 "	10
LF SKL 8-11	36256	36256.100	8 - 11 mm 0.315 - 0.433 "	4.2 mm 0.165 "	10
LF SKL 11-17	36257	36257.100	11 - 17 mm 0.433 - 0.669 "	4.2 mm 0.165 "	10
LF SKL 17-22	36258	36258.100	17 - 22 mm 0.669 - 0.866 "	4.2 mm 0.165 "	10
LF SKL 22-30	36259	36259.100	22 - 30 mm 0.866 - 1.181 "	4.2 mm 0.165 "	10

*Available from November 2018

EMC Test Results



Leakage and Impedance

All icotek shield clamps have been tested utilizing various frequency ranges and in all tests there was minimal leakage resistance.

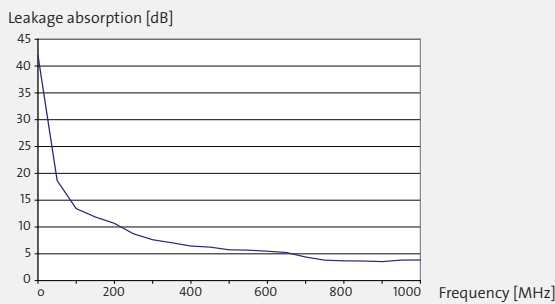
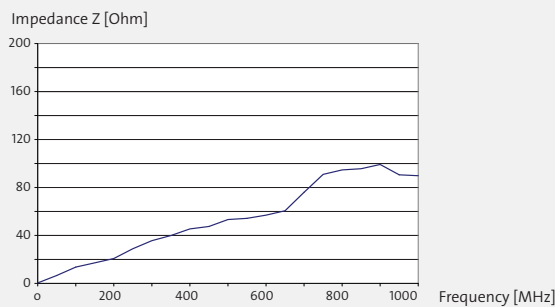
icotek EMC shield clamps are proven to absorb electromagnetic interferences.

- Electrical impedance values:
- from 10 kHz to 100 MHz under 20 Ohm
 - up to 1.000 MHz under 120 Ohm

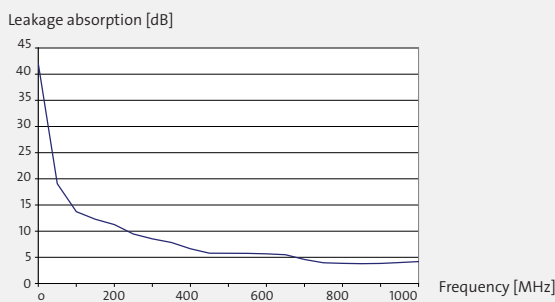
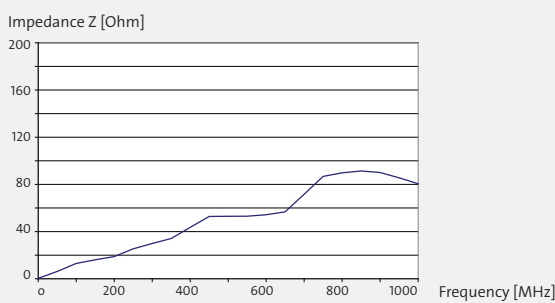
The unique design of icotek shield clamps effectively reduce high frequency interferences.

4.1

LF|SKL 8-11



SF|SKL 6-8



Contact Area

The SKL shield clamps offer a large contact area to the cable shield (see figure A).

In comparison to conventional shield clamps, an up to 50% higher contact area is achieved when using the SKL product line.



Figure A: SKL-line

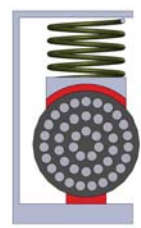
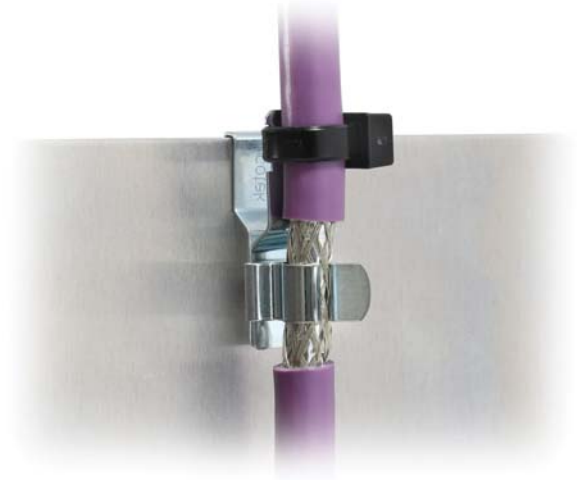


Figure B: Conventional systems

PFKZ|SKL

Pluggable EMC Shield Clamps



Product Description

Comparable with the PFK|SKL range, the PFKZ|SKL shield clamps are easy to use and effective in grounding single cable shields.

The PFKZ range provides possibility to affix the cable with a cable tie. Strain relief in accordance with EN 62444 is achieved.

PFKZ|SKL clamps are used where a screw connection is either not possible or wanted. The PFKZ|SKL is simply clamped on the sheet. The claws provide a secure grip, even in case of vibrations.

4.1

Advantages & Benefits

- Integrated strain relief
- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free

Specifications

Material

SKL-clamp Spring steel, zinc plated
 PFKZ-foot Spring steel

Type A: For wall/sheet thickness 1.5 - 2 mm / 0.059 - 0.079 "

Type B: For wall/sheet thickness 2 - 3 mm / 0.079 - 0.118 "

Type	Order No.	Shield diameter	PU
PFKZ SKL - Type A (for wall/sheet thickness 1.5 - 2 mm / 0.059 - 0.079 ")			
PFKZ-A-M MSKL 3-12	37640	3 - 12 mm 0.118 - 0.472 "	10
PFKZ-A-M MSKL 8-18	37642	8 - 18 mm 0.315 - 0.709 "	10
PFKZ SKL - Type B (for wall/sheet thickness 2 - 3 mm / 0.079 - 0.118 ")			
PFKZ-A SKL 1.5-3	36779.1	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ-A SKL 3-6	36779.2	3 - 6 mm 0.118 - 0.236 "	10
PFKZ-A SKL 6-8	36779.3	6 - 8 mm 0.236 - 0.315 "	10
PFKZ-A SKL 8-11	36779.4	8 - 11 mm 0.315 - 0.433 "	10
PFKZ SKL - Type B (for wall/sheet thickness 2 - 3 mm / 0.079 - 0.118 ")			
PFKZ-B-M MSKL 3-12	37650	3 - 12 mm 0.118 - 0.472 "	10
PFKZ-B-M MSKL 8-18	37652	8 - 18 mm 0.315 - 0.709 "	10
PFKZ SKL - Type B (for wall/sheet thickness 2 - 3 mm / 0.079 - 0.118 ")			
PFKZ-B SKL 1.5-3	36783.1	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ-B SKL 3-6	36783.2	3 - 6 mm 0.118 - 0.236 "	10
PFKZ-B SKL 6-8	36783.3	6 - 8 mm 0.236 - 0.315 "	10
PFKZ-B SKL 8-11	36783.4	8 - 11 mm 0.315 - 0.433 "	10

PFK|SKL Pluggable EMC Shield Clamps



Secure grip on metal sheets due to mounting claws



Type	Order No.	Shield diameter	PU
PFK SKL - Type A (for wall/sheet thickness 1.5 - 2 mm / 0.059 - 0.079 ")			
PFK-A SKL 1.5-3	36778.1	1.5 - 3 mm 0.059 - 0.118 "	10
PFK-A SKL 3-6	36778.2	3 - 6 mm 0.118 - 0.236 "	10
PFK-A SKL 6-8	36778.3	6 - 8 mm 0.236 - 0.315 "	10
PFK-A SKL 8-11	36778.4	8 - 11 mm 0.315 - 0.433 "	10
PFK SKL - Type B (for wall/sheet thickness 2 - 3 mm / 0.079 - 0.118 ")			
PFK-B SKL 1.5-3	36782.1	1.5 - 3 mm 0.059 - 0.118 "	10
PFK-B SKL 3-6	36782.2	3 - 6 mm 0.118 - 0.236 "	10
PFK-B SKL 6-8	36782.3	6 - 8 mm 0.236 - 0.315 "	10
PFK-B SKL 8-11	36782.4	8 - 11 mm 0.315 - 0.433 "	10

Product Description

PFK|SKL shield clamps are easy to use and effective in grounding single cable shields.

PFK|SKL clamps are used where a screw connection is either not possible or wanted. The PFK|SKL is simply clamped on the sheet. The claws provide a secure grip, even in case of vibrations.

Advantages & Benefits

- Large contact area
- Simple and tool-free mounting, easy assembly
- Shock and vibration resistant, maintenance free
- The spring design requires no adjustments and will permanently maintain contact to the cable shield

Specifications

Material

SKL-clamp Spring steel, zinc plated
PFK-foot Spring steel

Type A: For wall/sheet thickness 1.5 - 2 mm / 0.059 - 0.079 "

Type B: For wall/sheet thickness 2 - 3 mm / 0.079 - 0.118 "

PFKZ2|SKL

Pluggable EMC Double Shield Clamps



Secure grip on metal sheets due to mounting claws

Product Description

Comparable with the PFK2|SKL range, the PFKZ2|SKL shield clamps are easy to use and effective in grounding 2 single cable shields. The PFKZ range provides the possibility to affix the cable with a cable tie. Strain relief in accordance with EN 62444 is achieved.

PFKZ2|SKL clamps are used where a screw connection is either not possible or wanted. The PFKZ2|SKL is simply clamped on the sheet. The claws provide a secure grip, even in case of vibrations.

4.1

Advantages & Benefits

- Integrated strain relief
- Large contact area
- Simple and tool-free mounting, easy assembly
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Shock and vibration resistant, maintenance free
- Designed for high density applications

Specifications

Material

SKL-clamp Spring steel, zinc plated
PFKZ2-foot Spring steel

Type A: For wall/sheet thickness 1.5 - 2 mm /
 0.059 - 0.079 "

Type B: For wall/sheet thickness 2 - 3 mm /
 0.079 - 0.118 "

Type A	Order No. Type A	Type B	Order No. Type B	Shield diameter Pos. 1	Shield diameter Pos. 2	PU
Sheet thickness 1.5-2 mm:		Sheet thickness 2-3 mm:				
PFKZ2-A SKL 01	36781.01	PFKZ2-B SKL 01	36785.01	blank	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ2-A SKL 02	36781.02	PFKZ2-B SKL 02	36785.02	blank	3 - 6 mm 0.118 - 0.236 "	10
PFKZ2-A SKL 03	36781.03	PFKZ2-B SKL 03	36785.03	blank	6 - 8 mm 0.236 - 0.315 "	10
PFKZ2-A SKL 04	36781.04	PFKZ2-B SKL 04	36785.04	blank	8 - 11 mm 0.315 - 0.433 "	10
PFKZ2-A SKL 10	36781.10	PFKZ2-B SKL 10	36785.10	1.5 - 3 mm 0.059 - 0.118 "	blank	10
PFKZ2-A SKL 11	36781.11	PFKZ2-B SKL 11	36785.11	1.5 - 3 mm 0.059 - 0.118 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ2-A SKL 12	36781.12	PFKZ2-B SKL 12	36785.12	1.5 - 3 mm 0.059 - 0.118 "	3 - 6 mm 0.118 - 0.236 "	10
PFKZ2-A SKL 13	36781.13	PFKZ2-B SKL 13	36785.13	1.5 - 3 mm 0.059 - 0.118 "	6 - 8 mm 0.236 - 0.315 "	10
PFKZ2-A SKL 14	36781.14	PFKZ2-B SKL 14	36785.14	1.5 - 3 mm 0.059 - 0.118 "	8 - 11 mm 0.315 - 0.433 "	10
PFKZ2-A SKL 20	36781.20	PFKZ2-B SKL 20	36785.20	3 - 6 mm 0.118 - 0.236 "	blank	10
PFKZ2-A SKL 21	36781.21	PFKZ2-B SKL 21	36785.21	3 - 6 mm 0.118 - 0.236 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ2-A SKL 22	36781.22	PFKZ2-B SKL 22	36785.22	3 - 6 mm 0.118 - 0.236 "	3 - 6 mm 0.118 - 0.236 "	10
PFKZ2-A SKL 23	36781.23	PFKZ2-B SKL 23	36785.23	3 - 6 mm 0.118 - 0.236 "	6 - 8 mm 0.236 - 0.315 "	10
PFKZ2-A SKL 24	36781.24	PFKZ2-B SKL 24	36785.24	3 - 6 mm 0.118 - 0.236 "	8 - 11 mm 0.315 - 0.433 "	10
PFKZ2-A SKL 30	36781.30	PFKZ2-B SKL 30	36785.30	6 - 8 mm 0.236 - 0.315 "	blank	10
PFKZ2-A SKL 31	36781.31	PFKZ2-B SKL 31	36785.31	6 - 8 mm 0.236 - 0.315 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ2-A SKL 32	36781.32	PFKZ2-B SKL 32	36785.32	6 - 8 mm 0.236 - 0.315 "	3 - 6 mm 0.118 - 0.236 "	10
PFKZ2-A SKL 33	36781.33	PFKZ2-B SKL 33	36785.33	6 - 8 mm 0.236 - 0.315 "	6 - 8 mm 0.236 - 0.315 "	10
PFKZ2-A SKL 34	36781.34	PFKZ2-B SKL 34	36785.34	6 - 8 mm 0.236 - 0.315 "	8 - 11 mm 0.315 - 0.433 "	10
PFKZ2-A SKL 40	36781.40	PFKZ2-B SKL 40	36785.40	8 - 11 mm 0.315 - 0.433 "	blank	10
PFKZ2-A SKL 41	36781.41	PFKZ2-B SKL 41	36785.41	8 - 11 mm 0.315 - 0.433 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFKZ2-A SKL 42	36781.42	PFKZ2-B SKL 42	36785.42	8 - 11 mm 0.315 - 0.433 "	3 - 6 mm 0.118 - 0.236 "	10
PFKZ2-A SKL 43	36781.43	PFKZ2-B SKL 43	36785.43	8 - 11 mm 0.315 - 0.433 "	6 - 8 mm 0.236 - 0.315 "	10

PFK2|SKL

Pluggable EMC Double Shield Clamps



Type A	Order No. Type A	Type B	Order No. Type B	Shield diameter Pos. 1	Shield diameter Pos. 2	PU
Sheet thickness 1.5 - 2 mm / 0.059 - 0.079 ":		Sheet thickness 2 - 3 mm / 0.079 - 0.118 ":				
PFK2-A SKL 01	36780.01	PFK2-B SKL 01	36784.01	blank	1.5 - 3 mm 0.059 - 0.118 "	10
PFK2-A SKL 02	36780.02	PFK2-B SKL 02	36784.02	blank	3 - 6 mm 0.118 - 0.236 "	10
PFK2-A SKL 03	36780.03	PFK2-B SKL 03	36784.03	blank	6 - 8 mm 0.236 - 0.315 "	10
PFK2-A SKL 04	36780.04	PFK2-B SKL 04	36784.04	blank	8 - 11 mm 0.315 - 0.433 "	10
PFK2-A SKL 10	36780.10	PFK2-B SKL 10	36784.10	1.5 - 3 mm 0.059 - 0.118 "	blank	10
PFK2-A SKL 11	36780.11	PFK2-B SKL 11	36784.11	1.5 - 3 mm 0.059 - 0.118 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFK2-A SKL 12	36780.12	PFK2-B SKL 12	36784.12	1.5 - 3 mm 0.059 - 0.118 "	3 - 6 mm 0.118 - 0.236 "	10
PFK2-A SKL 13	36780.13	PFK2-B SKL 13	36784.13	1.5 - 3 mm 0.059 - 0.118 "	6 - 8 mm 0.236 - 0.315 "	10
PFK2-A SKL 14	36780.14	PFK2-B SKL 14	36784.14	1.5 - 3 mm 0.059 - 0.118 "	8 - 11 mm 0.315 - 0.433 "	10
PFK2-A SKL 20	36780.20	PFK2-B SKL 20	36784.20	3 - 6 mm 0.118 - 0.236 "	blank	10
PFK2-A SKL 21	36780.21	PFK2-B SKL 21	36784.21	3 - 6 mm 0.118 - 0.236 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFK2-A SKL 22	36780.22	PFK2-B SKL 22	36784.22	3 - 6 mm 0.118 - 0.236 "	3 - 6 mm 0.118 - 0.236 "	10
PFK2-A SKL 23	36780.23	PFK2-B SKL 23	36784.23	3 - 6 mm 0.118 - 0.236 "	6 - 8 mm 0.236 - 0.315 "	10
PFK2-A SKL 24	36780.24	PFK2-B SKL 24	36784.24	3 - 6 mm 0.118 - 0.236 "	8 - 11 mm 0.315 - 0.433 "	10
PFK2-A SKL 30	36780.30	PFK2-B SKL 30	36784.30	6 - 8 mm 0.236 - 0.315 "	blank	10
PFK2-A SKL 31	36780.31	PFK2-B SKL 31	36784.31	6 - 8 mm 0.236 - 0.315 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFK2-A SKL 32	36780.32	PFK2-B SKL 32	36784.32	6 - 8 mm 0.236 - 0.315 "	3 - 6 mm 0.118 - 0.236 "	10
PFK2-A SKL 33	36780.33	PFK2-B SKL 33	36784.33	6 - 8 mm 0.236 - 0.315 "	6 - 8 mm 0.236 - 0.315 "	10
PFK2-A SKL 34	36780.34	PFK2-B SKL 34	36784.34	6 - 8 mm 0.236 - 0.315 "	8 - 11 mm 0.315 - 0.433 "	10
PFK2-A SKL 40	36780.40	PFK2-B SKL 40	36784.40	8 - 11 mm 0.315 - 0.433 "	blank	10
PFK2-A SKL 41	36780.41	PFK2-B SKL 41	36784.41	8 - 11 mm 0.315 - 0.433 "	1.5 - 3 mm 0.059 - 0.118 "	10
PFK2-A SKL 42	36780.42	PFK2-B SKL 42	36784.42	8 - 11 mm 0.315 - 0.433 "	3 - 6 mm 0.118 - 0.236 "	10
PFK2-A SKL 43	36780.43	PFK2-B SKL 43	36784.43	8 - 11 mm 0.315 - 0.433 "	6 - 8 mm 0.236 - 0.315 "	10

Product Description

PFK2|SKL shield clamps are easy to use and effective in grounding 2 single cable shields.

PFK2|SKL clamps are used where a screw connection is either not possible or wanted. The PFK2|SKL is simply clamped on the sheet. The claws provide a secure grip, even in case of vibrations.

Advantages & Benefits

- Large contact area
- Simple and tool-free mounting, easy assembly
- Shock and vibration resistant, maintenance free
- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Designed for high density applications

Specifications

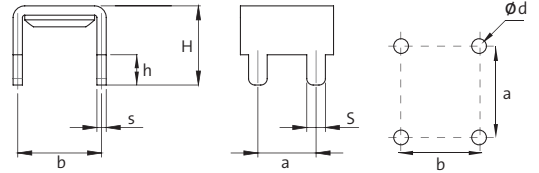
Material
SKL-clamp Spring steel, zinc plated
PFK2-foot Spring steel

Type A: For wall/sheet thickness 1.5 - 2 mm /
0.059 - 0.079 "

Type B: For wall/sheet thickness 2 - 3 mm /
0.079 - 0.118 "

PCB|SKL

EMC Shield Clamps for Printed Circuit Boards



Product Description

PCB|SKL shield clamps are easy to use and effective in grounding single cable shields.

PCB|SKL consist of SKL clamps, fixed on a soldering foot that enables assembly on printed circuit boards. There are various designs to choose from.

Advantages & Benefits

- The spring design requires no adjustments and will permanently maintain contact to the cable shield
- Large contact area

Specifications

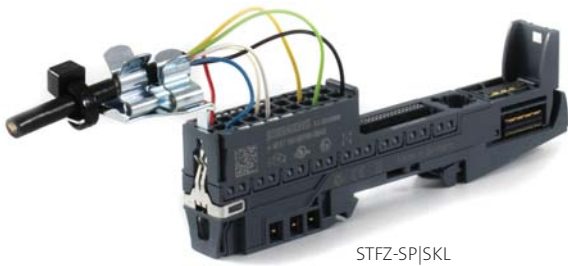
Material	
SKL-clamp	Spring steel, zinc plated
PCB-foot	Brass, tin plated

Type	Order No.	Height H [mm]	Width s [mm]	Pin h [mm]	Pin S [mm]	Grid a x b [mm]	Drill-hole d [mm]	PU
PCB-4-V-6,8 SKL 1.5-3 (Clamping range 1.5 - 3 mm / 0.059 - 0.118 ")	36650.1	6.8 0.268 "	0.8 0.031 "	2.6 0.102 "	1.6 0.063 "	7.2 x 5 0.283 x 0.197 "	Ø 1.8 0.071 "	10
PCB-4-V-6,8 SKL 3-6 (Clamping range 3 - 6 mm / 0.118 - 0.236 ")	36650.2	6.8 0.268 "	0.8 0.031 "	2.6 0.102 "	1.6 0.063 "	7.2 x 5 0.283 x 0.197 "	Ø 1.8 0.071 "	10
PCB-4-V-6,8 SKL 6-8 (Clamping range 6 - 8 mm / 0.236 - 0.315 ")	36650.3	6.8 0.268 "	0.8 0.031 "	2.6 0.102 "	1.6 0.063 "	7.2 x 5 0.283 x 0.197 "	Ø 1.8 0.071 "	10
PCB-4-V-12,5 SKL 1.5-3 (Clamping range 1.5 - 3 mm / 0.059 - 0.118 ")	36656.1	12.5 0.492 "	1 0.039 "	4 0.157 "	1.6 0.063 "	10.1 x 5 0.398 x 0.197 "	Ø 1.8 0.071 "	10
PCB-4-V-12,5 SKL 3-6 (Clamping range 3 - 6 mm / 0.118 - 0.236 ")	36656.2	12.5 0.492 "	1 0.039 "	4 0.157 "	1.6 0.063 "	10.1 x 5 0.398 x 0.197 "	Ø 1.8 0.071 "	10
PCB-4-V-12,5 SKL 6-8 (Clamping range 6 - 8 mm / 0.236 - 0.315 ")	36656.3	12.5 0.492 "	1 0.039 "	4 0.157 "	1.6 0.063 "	10.1 x 5 0.398 x 0.197 "	Ø 1.8 0.071 "	10
NEW PCB-ET-4-V-4,1 SKL 3-6 (Clamping range 3 - 6 mm / 0.118 - 0.236 ")	36653.1	17.5 0.689 "	0.3 0.012 "	2.6 0.102 "	1.6 0.063 "	5 x 7.2 0.283 "	Ø 1.8 0.071 "	25

4.1

STFZ|SKL

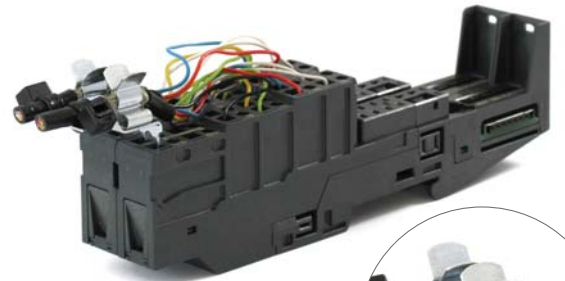
EMC Terminal clamps for Peripheral Modules



STFZ-SP|SKL



STFZ-U|SKL



STFZ|SKL



Application Terminal Clamps

STFZ|SKL

- Bosch Rexroth
IP20 Inline Module
- PHOENIX CONTACT
All terminals of the INLINE range.
The terminals 1.4 and 2.4 must not be used for signal I/O.
- Pilz
All PSSu-Modules with shield terminals 13 and 23
- Siemens
All terminals of the ET200s range.
Terminals 4 and 8 must not be used for signal I/O.
- TURCK
For terminals of the BL20 I/O system.
- VIPA SLIO
All terminals of the SLIO range. Terminals 4+8 must not be used for signal I/O.
- WAGO
All terminals of the WAGO I/O Systems 750.
Terminals 4 and 8 must not be used for signal I/O.
- Rockwell Automation / Allen-Bradley
Series 1734

Further manufacturers upon request.

STFZ-U|SKL

- BECKHOFF
EL 3122, ES 3122, ES 9100, ES 9410, KL 1114, KS 2134

STFZ-SP|SKL

- Siemens
SIMATIC ET 200SP

Product Description

The EMC terminal clamps STFZ|SKL combine the functions strain relief, cable guidance and grounding of signal cables. Available in two versions for 1 or 2 lines.

The STFZ2|SKL is used for analogue I/O modules using two actuators / sensors.

The STFZ EMC terminal clamp is compatible to bus modules listed on the left side.

For the SIMATIC ET 200SP module by Siemens icotek has developed a special terminal clamp STFZ-SP for 1 or 2 lines.

Product Description

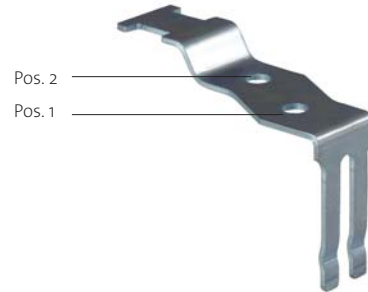
STFZ I/O Insert Tool for quick and easy mounting of STFZ terminal clamps.

Order No. 61430



STFZ | STFZ2

EMC Terminal Clamps, Single and Double for Various Brands



Product Description

The STFZ|SKL EMC terminal clamp provides strain relief, cable guidance and grounding for decentralized bus modules (see compatibility table page 129).

The STFZ2|SKL is used for analogue I/O modules using two actuators / sensors.

The EMC shield clamps as listed below are available to mount:

SKL 1.5-3 | SKL 3-6 | SKL 6-8

Advantages & Benefits

- Grounding of signal cables close to the terminal
- Strain relief and cable management directly on the bus module

Specifications

Material	
SKL-clamp	Spring steel, zinc plated
STFZ-foot	Spring steel

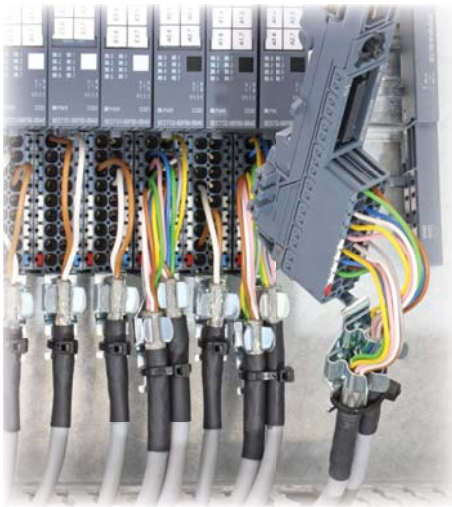
Accessories

STFZ I/O Insert Tool 129

Type	Shield diameter Pos. 1	Shield diameter Pos. 2	Order No.	PU
STFZ SKL with one shield clamp:				
STFZ SKL 1.5-3	1.5 - 3 mm 0.059 - 0.118 "	-	37510.1	10
STFZ SKL 3-6	3 - 6 mm 0.118 - 0.236 "	-	37510.2	10
STFZ SKL 6-8	6 - 8 mm 0.236 - 0.315 "	-	37510.3	10
STFZ2 SKL with two shield clamps:				
STFZ2 01	blank	1.5 - 3 mm 0.059 - 0.118 "	37505.01	10
STFZ2 02	blank	3 - 6 mm 0.118 - 0.236 "	37505.02	10
STFZ2 03	blank	6 - 8 mm 0.236 - 0.315 "	37505.03	10
STFZ2 10	1.5 - 3 mm 0.059 - 0.118 "	blank	37505.10	10
STFZ2 11	1.5 - 3 mm 0.059 - 0.118 "	1.5 - 3 mm 0.059 - 0.118 "	37505.11	10
STFZ2 12	1.5 - 3 mm 0.059 - 0.118 "	3 - 6 mm 0.118 - 0.236 "	37505.12	10
STFZ2 13	1.5 - 3 mm 0.059 - 0.118 "	6 - 8 mm 0.236 - 0.315 "	37505.13	10
STFZ2 20	3 - 6 mm 0.118 - 0.236 "	blank	37505.20	10
STFZ2 21	3 - 6 mm 0.118 - 0.236 "	1.5 - 3 mm 0.059 - 0.118 "	37505.21	10
STFZ2 22	3 - 6 mm 0.118 - 0.236 "	3 - 6 mm 0.118 - 0.236 "	37505.22	10
STFZ2 23	3 - 6 mm 0.118 - 0.236 "	6 - 8 mm 0.236 - 0.315 "	37505.23	10
STFZ2 30	6 - 8 mm 0.236 - 0.315 "	blank	37505.30	10
STFZ2 31	6 - 8 mm 0.236 - 0.315 "	1.5 - 3 mm 0.059 - 0.118 "	37505.31	10
STFZ2 32	6 - 8 mm 0.236 - 0.315 "	3 - 6 mm 0.118 - 0.236 "	37505.32	10
STFZ2 33	6 - 8 mm 0.236 - 0.315 "	6 - 8 mm 0.236 - 0.315 "	37505.33	10

STFZ-U | STFZ-SP | STFZ2-SP

EMC Terminal Clamps, Single and Double for Siemens & Beckhoff Modules



Type	Shield diameter Pos. 1 [mm]	Shield diameter Pos. 2 [mm]	Order No.	PU
STFZ-SP SKL / STFZ-U SKL with one shield clamp:				
STFZ-SP SKL 1.5-3	1.5 - 3 / 0.059 - 0.118 "	-	37512.1	10
STFZ-U SKL 1.5-3	1.5 - 3 / 0.059 - 0.118 "	-	37514.1	10
STFZ-SP SKL 3-6	3 - 6 / 0.118 - 0.236 "	-	37512.2	10
STFZ-U SKL 3-6	3 - 6 / 0.118 - 0.236 "	-	37514.2	10
STFZ-SP SKL 6-8	6 - 8 / 0.236 - 0.315 "	-	37512.3	10
STFZ-U SKL 6-8	6 - 8 / 0.236 - 0.315 "	-	37514.3	10
STFZ2-SP with two shield clamps:				
STFZ2-SP 01	blank	1.5 - 3 / 0.059 - 0.118 "	37507.01	10
STFZ2-SP 02	blank	3 - 6 / 0.118 - 0.236 "	37507.02	10
STFZ2-SP 03	blank	6 - 8 / 0.236 - 0.315 "	37507.03	10
STFZ2-SP 10	1.5 - 3 / 0.059 - 0.118 "	blank	37507.10	10
STFZ2-SP 11	1.5 - 3 / 0.059 - 0.118 "	1.5 - 3 / 0.059 - 0.118 "	37507.11	10
STFZ2-SP 12	1.5 - 3 / 0.059 - 0.118 "	3 - 6 / 0.118 - 0.236 "	37507.12	10
STFZ2-SP 13	1.5 - 3 / 0.059 - 0.118 "	6 - 8 / 0.236 - 0.315 "	37507.13	10
STFZ2-SP 20	3 - 6 / 0.118 - 0.236 "	blank	37507.20	10
STFZ2-SP 21	3 - 6 / 0.118 - 0.236 "	1.5 - 3 / 0.059 - 0.118 "	37507.21	10
STFZ2-SP 22	3 - 6 / 0.118 - 0.236 "	3 - 6 / 0.118 - 0.236 "	37507.22	10
STFZ2-SP 23	3 - 6 / 0.118 - 0.236 "	6 - 8 / 0.236 - 0.315 "	37507.23	10
STFZ2-SP 30	6 - 8 / 0.236 - 0.315 "	blank	37507.30	10
STFZ2-SP 31	6 - 8 / 0.236 - 0.315 "	1.5 - 3 / 0.059 - 0.118 "	37507.31	10
STFZ2-SP 32	6 - 8 / 0.236 - 0.315 "	3 - 6 / 0.118 - 0.236 "	37507.32	10
STFZ2-SP 33	6 - 8 / 0.236 - 0.315 "	6 - 8 / 0.236 - 0.315 "	37507.33	10

Product Description

The STFZ-SP|SKL EMC terminal clamp provides strain relief, cable guidance and grounding for decentralized bus modules SIMATIC ET 200SP by Siemens. STFZ2-SP|SKL is a version for analogue I/O modules using two actuators / sensors. STFZ-U terminal clamps for various Beckhoff modules (see page 129).

The EMC shield clamps as listed below are available to mount:

SKL 1.5-3 | SKL 3-6 | SKL 6-8

Advantages & Benefits

- Grounding of signal cables close to the terminal
- Strain relief and cable management directly on the bus module

Specifications

Material

SKL-clamp Spring steel, zinc plated
STFZ-SP-foot Spring steel

Accessories

STFZ I/O Insert Tool 129



STFZ-U|SKL

EMC ServiceBox *multi*

Service Box with Assorted MSKL Shield Clamps



Product Description

The suitable EMC clamp is always readily available!

The EMC ServiceBox multi is very universal, especially when the cable diameter is unknown in advance. With the new ServiceBox multi you always have the right size on hand.

The EMC ServiceBox multi is perfect for installations and service calls. Retrofitting and maintenance can be carried out easily and quickly.

Order No. 88006

Content

MSKL / SKL for TS35 DIN rails:	
Type SFZ-M MSKL - sizes: 8 - 18 mm	10 × MSKL
Type SFZ-M MSKL - sizes: 3 - 12 mm	20 × MSKL
Type SFZ SKL - sizes: 1.5 - 3 mm	10 × SKL
MSKL / SKL for assembly via screws:	
Type LFZ-M MSKL - sizes: 8 - 18 mm	10 × MSKL
Type LFZ-M MSKL - sizes: 3 - 12 mm	20 × MSKL
Type LFZ SKL - sizes: 1.5 - 3 mm	10 × SKL
MSKL for 10 × 3 mm bus bar:	
Type PFSZ-M MSKL - sizes: 3 - 12 mm	10 × MSKL
MSKL / SKL for clipping on metal sheets:	
Type PFKZ-B SKL 22	2 × SKL
SKL for decentralized bus modules:	
Type STFZ SKL - sizes: 3 - 8 mm	6 × SKL
SKL for clipping on metal sheets	
Typ PFKZ-B SKL 1,5-3 mm	3 × SKL
Typ PFKZ-B SKL 3-6 mm	3 × SKL
Typ PFKZ-B SKL 6-8 mm	3 × SKL
EMC - Accessories:	
RLFZ - Clamp assembly 5x SKL	1 piece

90% of all cable shields are contacted



EMC ServiceBox

Service Box with Assorted SKL Shield Clamps



Exact gradations of the shield clamps



Product Description

The suitable EMC clamp is always readily available!

The EMC ServiceBox is perfect for installations and service calls. Retrofitting and maintenance can be carried out easily and quickly

Order No. 88002

Content

SKL for TS35 DIN rails:

Type SFZ SKL - sizes: 1.5 - 16 mm	15 × SKL
Type SFS SKL - sizes: 1.5 - 8 mm	6 × SKL
SFZ-M MSKL - sizes: 3-18 mm	4 × SKL

SKL for assembly via screws:

Type LFZ SKL - sizes: 1.5 - 16 mm	21 × SKL
Type LFZ-U4 SKL - sizes: 1.5-11 mm	8 × SKL
Type LFZ-M MSKL - sizes: 3-18 mm	4 × SKL

SKL for 10 × 3 bus bar:

Type PFSZ2 SKL 11	1 × SKL
Type PFSZ2 SKL 22	1 × SKL
Type PFSZ2 SKL 33	1 × SKL

SKL for clipping on metal sheets:

Type PFSZ SKL - sizes: 1.5 - 11 mm	15 × SKL
Type PFSZ-M MSKL - sizes: 3-18 mm	4 × SKL

SKL for decentralized bus modules:

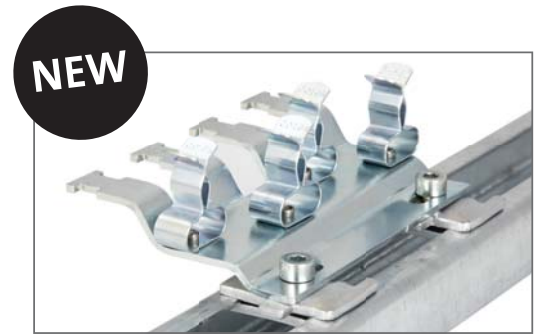
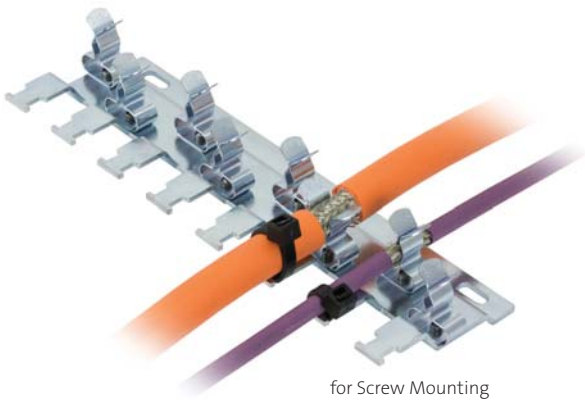
STFZ SKL - sizes: 3 - 6 mm	1 × SKL
STFZ2 SKL 23	1 × SKL

SKL for Siemens module ET 200 SP:

STFZ-SP SKL - sizes: 3-6 mm	1 × SKL
STFZ2-SP SKL 23	1 × SKL

RLFZ-M | SC|RLFZ-M

EMC Clamp assembly with strain relief and a large clamping range



Type SC: Mounted on screw-foot for DIN-rail shape C*

Product Description

The RLFZ-M range is a further development of the EMC clamp assembly which enables grounding and strain relief of up to 12 cable shields from 3-12 mm using only one shield clamp size.

There are 10 different carriers available which can be easily user configured with up to 12 MSKL 3-12 shield clamps.

Advantages & Benefits

- Easy storage due to large clamping range 3-12 mm
- Designed for high density applications
- Possibility to configure custom specific EMC clamp assemblies
- Separate strain relief and EMC shield grounding
- Online design tool for EMC Clamp assembly on www.icotek.com

Specifications

Material

MSKL-clamp	Spring steel, zinc plated
RLFZ-M-foot	Carbon steel, galvanically zinc plated
SC-foot	Carbon steel, galvanically zinc plated

Type	Order No. for direct mounting	Order No. for C-rails*	Number of shield clamps	Length	Width	PU
RLFZ-M (x3)	38070.002	38070.100	3× MSKL 3-12	52 mm 2.047 "	54.1 mm 2.13 "	1
RLFZ-M (x4)	38071.002	38071.100	4× MSKL 3-12	73 mm 2.874 "	54.1 mm 2.13 "	1
RLFZ-M (x5)	38072.002	38072.100	5× MSKL 3-12	94 mm 3.701 "	54.1 mm 2.13 "	1
RLFZ-M (x6)	38073.002	38073.100	6× MSKL 3-12	115 mm 4.528 "	54.1 mm 2.13 "	1
RLFZ-M (x7)	38074.002	38074.100	7× MSKL 3-12	136 mm 5.315 "	54.1 mm 2.13 "	1
RLFZ-M (x8)	38075.002	38075.100	8× MSKL 3-12	157 mm 6.181 "	54.1 mm 2.13 "	1
RLFZ-M (x9)	38076.002	38076.100	9× MSKL 3-12	178 mm 7.008 "	54.1 mm 2.13 "	1
RLFZ-M (x10)	38077.002	38077.100	10× MSKL 3-12	199 mm 7.835 "	54.1 mm 2.13 "	1
RLFZ-M (x11)	38078.002	38078.100	11× MSKL 3-12	220 mm 8.661 "	54.1 mm 2.13 "	1
RLFZ-M (x12)	38079.002	38079.100	12× MSKL 3-12	241 mm 9.488 "	54.1 mm 2.13 "	1

*Available from November 2018

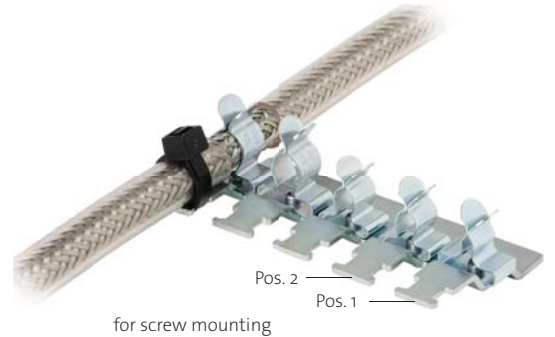
RLFZ | SC|RLFZ

EMC Clamp Assembly with Strain Relief

NEW



Type SC: Mounted on screw-foot for DIN-rail shape C*



Type	Order No. for direct mounting	Order No. for C-rails*	Number of shield clamps	Length	Width	PU
RLFZ (x3)	38005	38005.100	3× SKL	41.2 mm 1.622 "	44.4 mm 1.748 "	1
RLFZ (x4)	38010	38010.100	4× SKL	56.8 mm 2.236 "	44.4 mm 1.748 "	1
RLFZ (x5)	38015	38015.100	5× SKL	72.4 mm 2.85 "	44.4 mm 1.748 "	1
RLFZ (x6)	38020	38020.100	6× SKL	88 mm 3.465 "	44.4 mm 1.748 "	1
RLFZ (x7)	38025	38025.100	7× SKL	103.6 mm 4.079 "	44.4 mm 1.748 "	1
RLFZ (x8)	38030	38030.100	8× SKL	119.2 mm 4.693 "	44.4 mm 1.748 "	1
RLFZ (x9)	38035	38035.100	9× SKL	134.8 mm 5.307 "	44.4 mm 1.748 "	1
RLFZ (x10)	38040	38040.100	10× SKL	150.4 mm 5.921 "	44.4 mm 1.748 "	1
RLFZ (x11)	38045	38045.100	11× SKL	166 mm 6.535 "	44.4 mm 1.748 "	1
RLFZ (x12)	38050	38050.100	12× SKL	181.6 mm 7.15 "	44.4 mm 1.748 "	1

*Available from November 2018

Product Description

The RLFZ range enables grounding and strain relief of up to 12 cables in a small space.

The combination of EMC shield grounding and strain relief is the key feature of this system.

There are 10 different carriers available which can be user configured with up to 12 SKL shield clamps.

The EMC shield clamps as listed below are available to mount:

SKL 1-3 | SKL 3-6 | SKL 6-8 | SKL 8-11

Advantages & Benefits

- Designed for high density applications
- Possibility to configure custom specific EMC clamp assemblies
- Separate strain relief and EMC shield grounding
- Online design tool for EMC Clamp assembly

Specifications

Material

SKL-clamp	Spring steel, zinc plated
RLFZ-foot	Carbon steel, galvanically zinc plated
SC-foot	Carbon steel, galvanically zinc plated

SF|RLFZ

EMC Clamp Assembly for 35 mm DIN Rail



Product Description

The SF|RLFZ range is based upon the RLFZ clamp assembly, which is mounted on snap feet for 35 mm DIN rails shape H.

There are 10 different carriers available, which can be user configured with up to 12 SKL shield clamps.

The EMC shield clamps as listed below are available to mount:

SKL 1-5-3 | SKL 3-6 | SKL 6-8 | SKL 8-11

Advantages & Benefits

- Designed for high density applications
- Possibility to configure custom specific EMC clamp assembly
- Separate strain relief and EMC shield grounding
- Simple and tool-free mounting, easy assembly

Specifications

Material

SKL-clamp

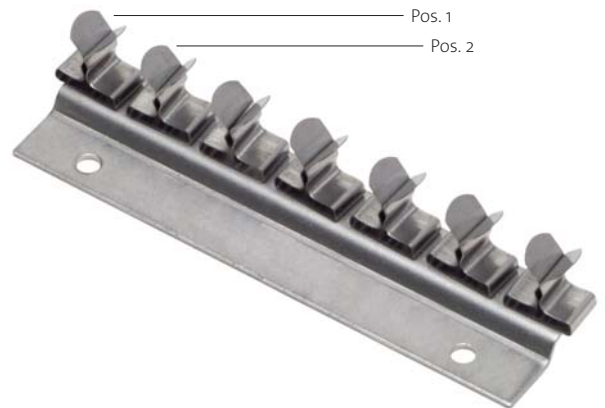
Spring steel, zinc plated

RLFZ-foot

Carbon steel, galvanically zinc plated

Type	Order No. (unfitted)	Number of shield clamps	Length	Width	PU
SF RLFZ (x3)	38105	3× SKL	41.2 mm 1.622 "	70.7 mm 2.783 "	1
SF RLFZ (x4)	38110	4× SKL	56.8 mm 2.236 "	70.7 mm 2.783 "	1
SF RLFZ (x5)	38115	5× SKL	72.4 mm 2.85 "	70.7 mm 2.783 "	1
SF RLFZ (x6)	38120	6× SKL	88 mm 3.465 "	70.7 mm 2.783 "	1
SF RLFZ (x7)	38125	7× SKL	103.6 mm 4.079 "	70.7 mm 2.783 "	1
SF RLFZ (x8)	38130	8× SKL	119.2 mm 4.693 "	70.7 mm 2.783 "	1
SF RLFZ (x9)	38135	9× SKL	134.8 mm 5.307 "	70.7 mm 2.783 "	1
SF RLFZ (x10)	38140	10× SKL	150.4 mm 5.096 "	70.7 mm 2.783 "	1
SF RLFZ (x11)	38145	11× SKL	166 mm 6.535 "	70.7 mm 2.783 "	1
SF RLFZ (x12)	38150	12× SKL	181.6 mm 7.15 "	70.7 mm 2.783 "	1

RLF EMC Clamp Assembly



Type	Order No. (unfitted)	Number of shield clamps	Length	Width	PU
RLF (x3)	36965	3× SKL	46.2 mm 1.819 "	24 mm 0.945 "	1
RLF (x4)	36984	4× SKL	60.8 mm 2.394 "	24 mm 0.945 "	1
RLF (x5)	36958	5× SKL	72.4 mm 2.85 "	24 mm 0.945 "	1
RLF (x6)	36952	6× SKL	88 mm 3.465 "	24 mm 0.945 "	1
RLF (x7)	36963	7× SKL	103.6 mm 4.079 "	24 mm 0.945 "	1
RLF (x8)	36953	8× SKL	119.2 mm 4.693 "	24 mm 0.945 "	1
RLF (x9)	36985	9× SKL	140.8 mm 5.543 "	24 mm 0.945 "	1
RLF (x10)	36954	10× SKL	150.4 mm 5.096 "	24 mm 0.945 "	1
RLF (x11)	36955	11× SKL	166 mm 6.535 "	24 mm 0.945 "	1
RLF (x12)	36962	12× SKL	181.6 mm 7.15 "	24 mm 0.945 "	1

Product Description

Comparable with the RLFZ clamp assembly, but without strain relief.

There are 10 different carriers available which can be user configured with up to 12 SKL shield clamps.

The EMC shield clamps as listed below are available to mount

SKL 1.5-3 | SKL 3-6 | SKL 6-8 | SKL 8-11

Advantages & Benefits

- Designed for high density applications
- Possibility to configure custom specific EMC clamp assembly
- Online design tool for EMC Clamp assembly

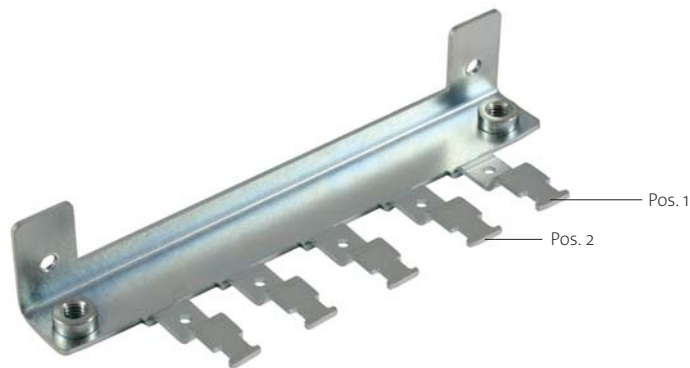
Specifications

Material

SKL-clamp **Spring steel, zinc plated**
RLF-foot **Stainless steel**

KEL-EMC-Z

Grounding Mount with Strain Relief



Product Description

Cable entry, EMC shield grounding and strain relief – all in one location!

Cables pass through the KEL cable entry and lead directly to the EMC clamps and strain relief.

Simply insert the cable shield into the shield clamp and secure the cable jacket to the strain relief. Two separate functions (acc. to regulations) carried out quickly and easily!

Custom configurations are available for shield clamps up to 16 mm in diameter with minimal order quantities and lead time.

4.1

Advantages & Benefits

- Large surface contact between cable shield and housing, especially on conductive coated surfaces
- Sealing by outer cable jacket – EMC earthing by cable shield (in acc. with regulations)
- Combined routing and fastening with the KEL cable entry system
- Available without SKL shield clamps if only additional strain relief is required
- Mounting hole for ground strap or PE connection

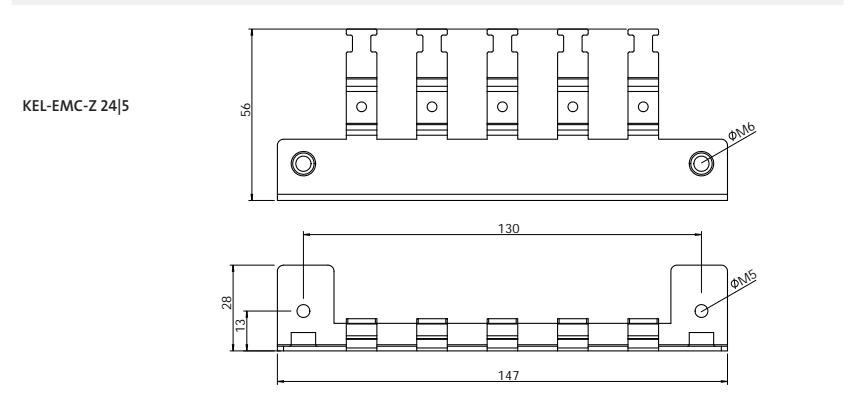
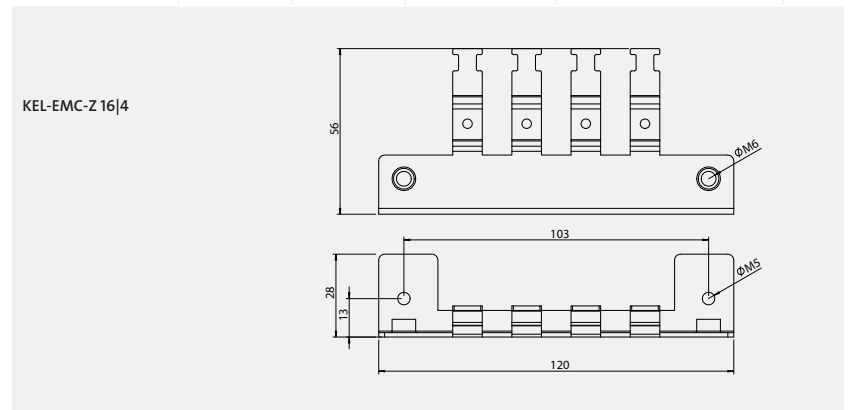
Specifications

Material **Carbon steel, zinc plated**

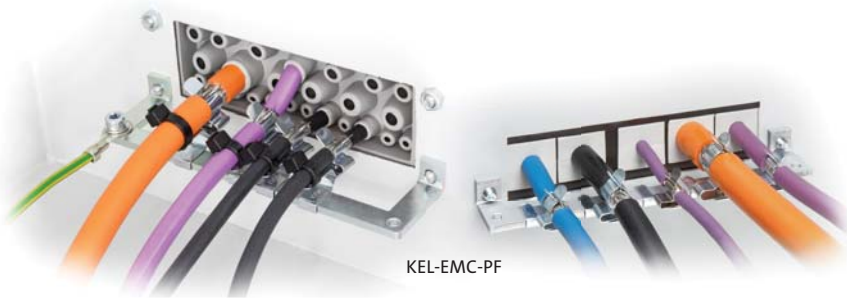
Compatible with

KEL-U Cable entry frames	8 - 14
KEL-ER Cable entry frames	9 - 14
KEL Cable entry frames	18 - 21
KEL-QUICK Cable entry frames	56 - 57

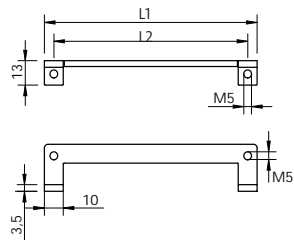
Type	Order No.	No. of teeth	Fastening	Fits with	PU
KEL-EMC-Z 16 4	36525	4	long side	KEL-(ER-)E4 KEL 16 x KEL-U 16 x KEL-ER 16 x KEL-QUICK 16	1
KEL-EMC-Z 24 5	36527	5	long side	KEL-(ER-)E5 KEL 24 x KEL-U 24 x KEL-ER 24 x KEL-QUICK 24	1



KEL-EMC-PF Grounding Mount, Bracket Version



KEL-EMC-PF



KEL-EMC-PFM



Product Description

The EMC bracket combined with the matching PFS|SKL EMC shield clamp is perfect in conjunction with the KEL cable entry frame for alleviating interferences due to shields.

The EMC bracket is assembled inside the control panel. For this process the same fixing screws for the assembly of the KEL frame on the control panel are used. A female screw thread M5 is already integrated in the KEL-EMC-PF(M) bracket.

Depending on the cable diameter, the corresponding PFS|SKL EMC shield clamp can be snapped onto the EMC bracket.

Advantages & Benefits

- Supports a wide range of cable and wire sizes
- Large surface contact of the cable shield
- Permanent spring pressure on the cable shield
- Fast and easy assembly

Specifications

Material **Carbon steel, galvanically zinc plated**

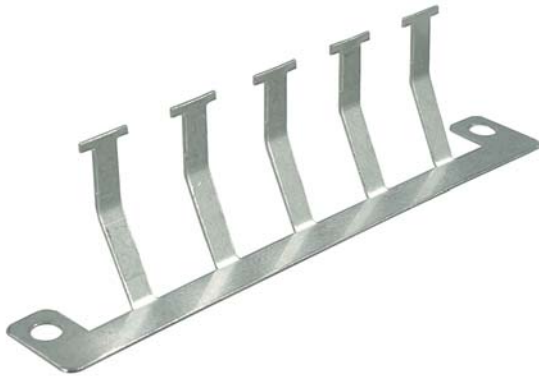
Compatible with

KEL-U Cable entry frames	8 - 14
KEL-ER Cable entry frames	9 - 14
KEL Cable entry frames	18 - 21
KEL 183 Cable entry frames	34
KEL-QUICK Cable entry frames	56 - 57
KEL-BES Brush frames	68
KEL-DPU Cable entry plates	76 - 77
KEL-DPZ Cable entry plates	78 - 84
PFSZ SKL / PFSZ-M MSKL Shield clamps	114
PFS SKL Shield clamps	115

Type	Fits with	Order No.	Length L1	Length L2	PU
KEL-EMC-PFM 10	KEL(-U) 10 x KEL-QUICK 10 x KEL-ER 10 x	39184	93 mm 3.661 "	83 mm 3.268 "	1
KEL-EMC-PFM 16	KEL(-U) 16 x KEL-QUICK 16 x KEL-ER 16 x	39183	113 mm 4.449 "	103 mm 4.055 "	1
KEL-EMC-PFM 24	KEL(-U) 24 x KEL-QUICK 24 x KEL-ER 24 x KEL-DPZ 24 x	39181	140 mm 5.512 "	130 mm 5.119 "	1
KEL-EMC-PF B4	KEL(-ER)-E2 KEL-QUICK-E2 KEL(-U)-B KEL-QUICK-B KEL-ER-B	39150	68 mm 2.677 "	58 mm 2.283 "	1
KEL-EMC-PF 10	KEL(-ER)-E3 KEL-QUICK-E3 KEL(-U) 10 x KEL-QUICK 10 x KEL-ER 10 x	39160	93 mm 3.661 "	83 mm 3.268 "	1
KEL-EMC-PF 16	KEL(-ER)-E4 KEL-QUICK-E4 KEL(-U) 16 x KEL-QUICK 16 x KEL-ER 16 x	39170	113 mm 4.449 "	103 mm 4.055 "	1
KEL-EMC-PF 24	KEL(-ER)-E5 KEL-QUICK-E5 KEL(-U) 24 x KEL-QUICK 24 x KEL-ER 24 x KEL-DPZ 24 x KEL-DPZ-E	39180	140 mm 5.512 "	130 mm 5.119 "	1
KEL-EMC-PF 183	KEL 183 KEL 183-E	39190	200 mm 7.874 "	95 / 190 mm 3.74 / 7.48 "	1

KEL-EMC

Grounding Mount



Product Description

Installation of pre-terminated cables without shield interruption.

Advantages & Benefits

- Direct, easy and quick contact to the enclosure
- Space saving, usable for up to 10 cables with the two row model
- Alternative to EMC cable glands, even for pre-terminated cables
- Low resistance shield contact

4.1

Specifications

Material **Stainless steel**

Compatible with

KEL-U Cable entry frames	8 - 14
KEL-ER Cable entry frames	9 - 14
KEL Cable entry frames	18 - 21
KEL-QUICK Cable entry frames	56 - 57
KEL-BES Brush frames	68

Type	Order No.	No. of teeth	Fastening	Fits with	PU
KEL-EMC-B	36520	2	long side	KEL-E2 KEL(-U)-B x KEL-ER-B x KEL-QUICK-B2 B4	5
KEL-EMC 10	36522	3	long side	KEL-E3 KEL(-U) 10 x KEL-ER 10 x	5
KEL-EMC 16 4	36524	4	long side	KEL-E4 KEL(-U) 16 x KEL-ER 16 x KEL-QUICK 16	5
KEL-EMC 24 5	36526	5	long side	KEL-E5 KEL(-U) 24 x KEL-ER 24 x KEL-QUICK 24	5
KEL-EMC F	39110	3	long side	KEL(-U)-B x KEL-ER-B x KEL(-U) 10 x KEL-ER 10 x KEL(-U) 16 x KEL-ER 16 x KEL(-U) 24 x KEL-ER 24 x	5

KVT-EMC EMC Bracket for Cord Grips



Type	Order No.	Shield diameter	PU
KVT-EMC-25 SKL 1.5-3	37180.1	1.5 - 3 mm 0.059 - 0.118 "	5
KVT-EMC-25 SKL 3-6	37180.2	3 - 6 mm 0.118 - 0.236 "	5
KVT-EMC-25 SKL 6-8	37180.3	6 - 8 mm 0.236 - 0.315 "	5
KVT-EMC-25 SKL 8-11	37180.4	8 - 11 mm 0.315 - 0.433 "	5
KVT-EMC-32 SKL 1.5-3	37181.1	1.5 - 3 mm 0.059 - 0.118 "	5
KVT-EMC-32 SKL 3-6	37181.2	3 - 6 mm 0.118 - 0.236 "	5
KVT-EMC-32 SKL 6-8	37181.3	6 - 8 mm 0.236 - 0.315 "	5
KVT-EMC-32 SKL 8-11	37181.4	8 - 11 mm 0.315 - 0.433 "	5

Product Description

The KVT-EMC brackets in combination with the split cord grips KVT and QVT combine routing, EMC shield grounding and strain relief. The connection to the ground potential is possible via the enclosure wall or an grounding tape.

Cables pass through the split cord grips and lead directly into the EMC clamps.

Separate functions (according to regulations) carried out quickly and easily!

Advantages & Benefits

- Simple and tool free assembly
- Large contact area
- Subsequent assembly possible
- Additional M5 hole for ground strap

Specifications

Material **Carbon steel, zinc plated**

Compatible with

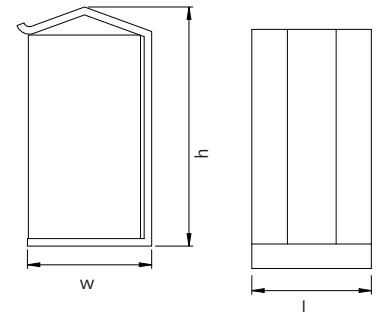
KVT Split cord grips 40 - 46
QVT Split cord grips 60 - 61

SK | SKZ

EMC Shield Brackets



Dimensions SK bracket (without mounting foot):



Product Description

SK shield brackets can be used where the shield of single cables has to be grounded.

SK shield brackets can be assembled on a mounting plate with screws, with SC-feet in DIN-rails shape C or with SF-feet on 35 mm DIN-rails shape H.

Advantages & Benefits

- Simple assembly on TS35 DIN rails and 10 × 3 mm bus bars
- Various sizes and possibilities for mounting

4.1



SC foot single for C-rail* (PU: 10) Order No. 36220

SC-foot: space-saving design enables high cable density.

Mounting foot adjusts itself when tightening the screw.


NEW

Specifications

Material	
SK-bracket	Carbon steel, galvanically zinc plated
SC-foot	Carbon steel, galvanically zinc plated
SF-foot	Spring steel

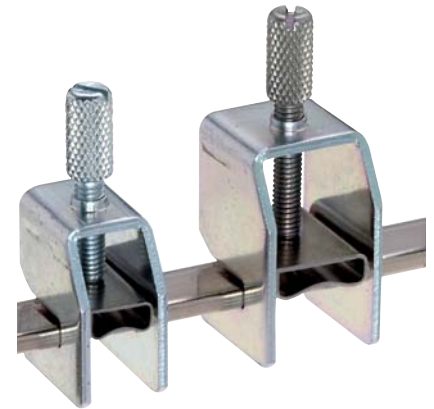
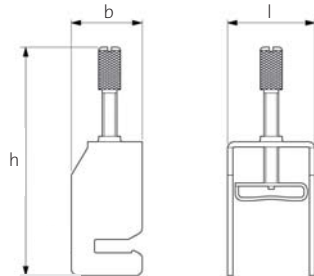
Accessories

Bus bar 10 × 3 143

Description	Type	Order No.	Shield diameter	Dimensions l × w × h [mm]	PU
For direct mounting (M4-screw included):					
	NEW SKZ 3-8	36222	3 - 8 mm 0.118 - 0.315 "	30.5 × 12.8 × 31.8 1.201 × 0.504 × 1.252 "	10
	NEW SKZ 4-13.5	36224	4 - 13.5 mm 0.157 - 0.531 "	36 × 22 × 37.8 1.417 × 0.866 × 1.488 "	10
	SKZ 10-20	36226	10 - 20 mm 0.394 - 0.787 "	27 × 25 × 41 1.063 × 0.984 × 1.614 "	10
	SK 15-32	36228	15 - 32 mm 0.591 - 1.26	32 × 37 × 64 1.26 × 1.457 × 2.52	10
For 35 mm DIN-rail shape H:					
	NEW SF SKZ 3-8	36500	3 - 8 mm 0.118 - 0.315 "	30.5 × 12.8 × 31.8 1.201 × 0.504 × 1.252 "	10
	NEW SF SKZ 4-13.5	36502	4 - 13.5 mm 0.157 - 0.531 "	36 × 22 × 37.8 1.417 × 0.866 × 1.488 "	10
	SF SK 10-20	36504	10 - 20 mm 0.394 - 0.787 "	27 × 25 × 41 1.063 × 0.984 × 1.614 "	10
	SF SK 15-32	36506	15 - 32 mm 0.591 - 1.26	32 × 37 × 64 1.26 × 1.457 × 2.52 "	10
For 10 × 3 mm bus bar:					
	NEW SS SKZ 3-8	36235	3 - 8 mm 0.118 - 0.315 "	30.5 × 12.8 × 31.8 1.201 × 0.504 × 1.252 "	10
	NEW SS SKZ 4-13.5	36236	4 - 13.5 mm 0.157 - 0.531 "	36 × 22 × 37.8 1.417 × 0.866 × 1.488 "	10
	SS SK 10-20	36237	10 - 20 mm 0.394 - 0.787 "	27 × 25 × 41 1.063 × 0.984 × 1.614 "	10
	SS SK 15-32	36238	15 - 32 mm 0.591 - 1.26	32 × 37 × 64 1.26 × 1.457 × 2.52 "	10
For DIN-rail shape C (width of mouth: 16 mm / 0.63 ")					
	NEW SC SKZ 3-8	36696	3 - 8 mm 0.118 - 0.315 "	30.5 × 12.8 × 31.8 1.201 × 0.504 × 1.252 "	10
	NEW SC SKZ 4-13.5	36700	4 - 13.5 mm 0.157 - 0.531 "	36 × 22 × 37.8 1.417 × 0.866 × 1.488 "	10
	SC SK 10-20	36704	10 - 20 mm 0.394 - 0.787 "	27 × 25 × 41 1.063 × 0.984 × 1.614 "	10
	SC SK 15-32	36708	15 - 32 mm 0.591 - 1.26	32 × 37 × 64 1.26 × 1.457 × 2.52 "	10

*New type available from November 2018

SKS EMC Shield Brackets



Description	Type	Order No.	Shield diameter	Dimensions l x b x h [mm]	PU
	SKS 2-5	36282	2 - 5 mm 0.079 - 0.197 "	9 × 19.5 × 47 0.354 x 0.768 x 1.85 "	10
	SKS 3-8	36283	3 - 8 mm 0.118 - 0.315 "	12 × 19.5 × 49 0.472 x 0.768 x 1.929 "	10
	SKS 3-14	36284	3 - 14 mm 0.118 - 0.551 "	17.5 × 19.5 × 60 0.689 x 0.768 x 2.362 "	10
	SKS 3-20	36285	3 - 20 mm 0.118 - 0.787 "	24.5 × 19.5 × 75 0.965 x 0.768 x 2.953 "	10
	SKS 5-28	36286	5 - 28 mm 0.197 - 1.102 "	31 × 20 × 93 1.22 x 0.787 x 3.661 "	10
	SKS 20-35	36287	20 - 35 mm 0.787 - 1.378 "	41 × 20 × 107 1.614 x 0.787 x 4.213 "	10
	Bus bar 10 × 3 mm	36100		1000 × 10 × 3* 39,37 x 0.394 x 0.118 "	1

* Other lengths available on request

Product Description

SKS shield brackets can be used where the shield of single cables has to be grounded.

SKS shield brackets can be assembled on 10 × 3 mm bus bars.

Advantages & Benefits

- One SKS shield bracket supports a wide range of cables
- Simple assembly on 10 × 3 mm bus bars

Specifications

Material
SKS-bracket Carbon steel, galvanically zinc plated

Accessories

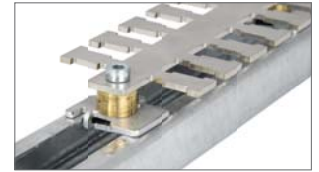
MF Supports for bus bars 187

KAFM-EMC

EMC Strain Relief Plates



Type SF: Mounted on snap foot for DIN-rail shape H



Type SC: Mounted on screw-foot for DIN-rail shape C



Type SK: Mounted on screw-foot for DIN-rail shape H

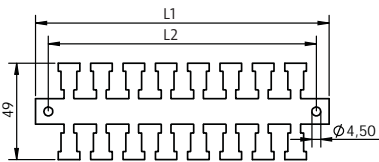


Type DH: Mounted on bushing for flexible fixation on bottom sheet

Product Description

The EMC strain relief plate KAFM is practical for grounding interferences on the cable shield.

The cable assembly can be assembled on a mounting plate with screws, with SC-feet on DIN-rails shape C or with SF-feet on 35 mm DIN-rails shape H.



4.1

Specifications

Material **Stainless steel**



SC-foot with twist protection notch: space-saving design enables high cable density.

Mounting foot adjusts itself when tightening the screw.

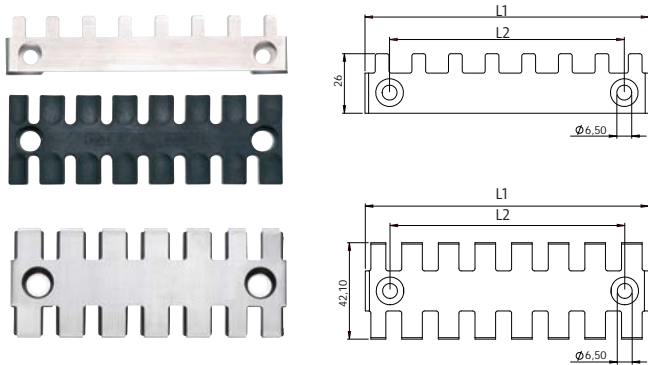
NEW

Type	Order No. Type SF	Order No. Type SK	Order No. Type SC	Order No. Type DH	Order No. loose rail	Length L1	Length L2	No. of teeth
KAFM 2	36442	36432	36412	36482	36422	50.5 1.988 "	37.5 1.476 "	2
KAFM 4	36444	36434	36414	36484	36424	83.5 3.287 "	70.5 2.776 "	4
KAFM 6	36446	36436	36416	36486	36426	116.5 4.587 "	103.5 4.075 "	6
KAFM 8	36448	36438	36418	36488	36428	149.5 5.886 "	136.5 5.374 "	8
KAFM 10	36450	36440	36400	36490	36430	182.5 7.185 "	169.5 6.673 "	10
KAFM 16	36452	36470	36465	36460	36530	281.5 11.083 "	268.5 10.571 "	16
KAFM 29	36454	36471	36466	36462	36540	494.5 19.469 "	481.5 18.957 "	29
KAFM 59	36458	36472	36467	36464	36550	990 38.976 "	978 38.054 "	59
KAFM 59 zinc plated	36459	-	-	-	36562	990 38.976 "	978 38.054 "	59
SF	36230	Snap foot loose, for 35 mm DIN-rail shape H						
SK	36232	Screw-foot loose, for 35 mm DIN-rail shape H						
SC*	36231	NEW	Screw-foot loose, for 30 mm DIN-rail shape C (width of mouth: 16 mm) with twist protection notch					
Bushing	36234	Distance bushing 8 mm high						
Screw	99017	M4 × 16 DIN 912						

*New type available from November 2018

ZL|SB-EMC

Shield Plates for ZL Strain Relief Plates



Type	Model	Order No.	Fits with	Length L1	Length L2	PU
ZL 39 SB-EMC-1	single-row	36322	ZL 39	42 mm 1.654 "	19.5 mm 0.768 "	10
ZL 39 SB-EMC-2	double-row	37150	ZL 39	42 mm 1.654 "	19.5 mm 0.768 "	10
ZL 60 SB-EMC-1	single-row	36328	ZL 60	64 mm 2.52 "	43.5 mm 1.713 "	10
ZL 60 SB-EMC-2	double-row	37152	ZL 60	64 mm 2.52 "	43.5 mm 1.713 "	10
ZL 87 SB-EMC-1	single-row	36324	ZL 87	90 mm 3.543 "	68 mm 2.678 "	10
ZL 87 SB-EMC-2	double-row	37154	ZL 87	90 mm 3.543 "	68 mm 2.678 "	10
ZL 103 SB-EMC-1	single-row	36332	ZL 103	106 mm 4.173 "	84 mm 3.307 "	10
ZL 103 SB-EMC-2	double-row	37156	ZL 103	106 mm 4.173 "	84 mm 3.307 "	10
ZL 121 SB-EMC-1	single-row	36330	ZL 121	124 mm 4.882 "	102.5 mm 4.305 "	10
ZL 121 SB-EMC-2	double-row	37158	ZL 121	124 mm 4.882 "	102.5 mm 4.305 "	10
ZL 140 SB-EMC-1	single-row	36326	ZL 140	142 mm 5.591 "	121 mm 4.764 "	10
ZL 140 SB-EMC-2	double-row	37159	ZL 140	142 mm 5.591 "	121 mm 4.764 "	10

Product Description

The shield plates ZL|SB-EMC provide shield grounding in addition to strain relief.

Affix the corresponding shield plates to ZL strain relief plates. The shield plate contacts the cable shield with the ground potential.

The result is a secure low resistance connection between cable shield and ground.

ZL strain relief plates offered separately.

Specifications

Material
Shield plate **Stainless steel**

Compatible with

SF|ZL Strain relief plates 102
ZL Strain relief plates 98
ZL-AB Strain relief plates 99

MB

Ground Straps



Product Description

Manufactured with highly flexible E-Cu stranded wires with connecting end pads made of tinned copper strips.

The minimum transition and connecting resistance makes them perfectly suitable for use as ground straps.

Ground straps are available with M6 or M8 connections and in some sizes with both connection sizes combined.

Type	Order No.	Length L [mm]	Cross-section mm ²	Hole size	PU
MB 100 6 M6	32700	100 / 3.937 "	6	M6	1
MB 150 6 M6	32701	150 / 5.906 "	6	M6	1
MB 200 6 M6	32702	200 / 7.874 "	6	M6	1
MB 250 6 M6	32706	250 / 9.843 "	6	M6	1
MB 300 6 M6	32703	300 / 11.811 "	6	M6	1
MB 400 6 M6	32704	400 / 15.748 "	6	M6	1
MB 500 6 M6	32705	500 / 19.685 "	6	M6	1
MB 100 10 M6	32730	100 / 3.937 "	10	M6	1
MB 100 10 M8	32731	100 / 3.937 "	10	M8	1
MB 150 10 M8	32732	150 / 5.906 "	10	M8	1
MB 200 10 M6	32733	200 / 7.874 "	10	M6	1
MB 200 10 M8	32734	200 / 7.874 "	10	M8	1
MB 200 10 M6+M8	32741	200 / 7.874 "	10	M6 + M8	1
MB 250 10 M6+M8	32742	250 / 9.843 "	10	M6 + M8	1
MB 300 10 M6	32735	300 / 11.811 "	10	M6	1
MB 300 10 M8	32736	300 / 11.811 "	10	M8	1
MB 300 10 M6+M8	32743	300 / 11.811 "	10	M6 + M8	1
MB 400 10 M6	32737	400 / 15.748 "	10	M6	1
MB 400 10 M8	32738	400 / 15.748 "	10	M8	1
MB 500 10 M6	32739	500 / 19.685 "	10	M6	1
MB 100 16 M6	32760	100 / 3.937 "	16	M6	1
MB 100 16 M8	32761	100 / 3.937 "	16	M8	1
MB 150 16 M6	32762	150 / 5.906 "	16	M6	1
MB 150 16 M8	32763	150 / 5.906 "	16	M8	1
MB 200 16 M6	32764	200 / 7.874 "	16	M6	1
MB 200 16 M8	32765	200 / 7.874 "	16	M8	1

MB Ground Straps



Connecting end pads (copper)



Type	Order No.	Length L [mm]	Cross-section mm ²	Hole size	PU
MB 200 16 M6+M8	32773	200 / 7.874 "	16	M6 + M8	1
MB 250 16 M8	32766	250 / 9.843 "	16	M8	1
MB 250 16 M6+M8	32774	250 / 9.843 "	16	M6 + M8	1
MB 300 16 M6	32767	300 / 11.811 "	16	M6	1
MB 300 16 M8	32768	300 / 11.811 "	16	M8	1
MB 300 16 M6+M8	32775	300 / 11.811 "	16	M6 + M8	1
MB 350 16 M8	32769	350 / 13.78 "	16	M8	1
MB 400 16 M8	32770	400 / 15.748 "	16	M8	1
MB 500 16 M8	32771	500 / 19.685 "	16	M8	1
MB 600 16 M8	32772	600 / 23.622 "	16	M8	1
MB 100 25 M10	32800	100 / 3.937 "	25	M10	1
MB 150 25 M10	32801	150 / 5.906 "	25	M10	1
MB 200 25 M8	32802	200 / 7.874 "	25	M8	1
MB 200 25 M10	32803	200 / 7.874 "	25	M10	1
MB 250 25 M8	32804	250 / 9.843 "	25	M8	1
MB 250 25 M10	32805	250 / 9.843 "	25	M10	1
MB 300 25 M8	32806	300 / 11.811 "	25	M8	1
MB 300 25 M10	32807	300 / 11.811 "	25	M10	1
MB 350 25 M10	32808	350 / 13.78 "	25	M10	1
MB 400 25 M8	32809	400 / 15.748 "	25	M8	1
MB 500 25 M8	32810	500 / 19.685 "	25	M8	1
MB 600 25 M8	32811	600 / 23.622 "	25	M8	1

Advantages & Benefits

- Available in a variety of lengths and cross-sections
- Cost-effective in comparison to PE conductors
- Low impedances

Specifications

Material **Cu-ETP with connecting end pads**
Pads made of tinned copper strips

Current Load

Cross-section:	Current load:
6 mm ²	40-50 A
10 mm ²	75-105 A
16 mm ²	100-150 A
25 mm ²	145-195 A
35 mm ²	170-235 A

