

Cable Entry Systems **EMC** Solutions

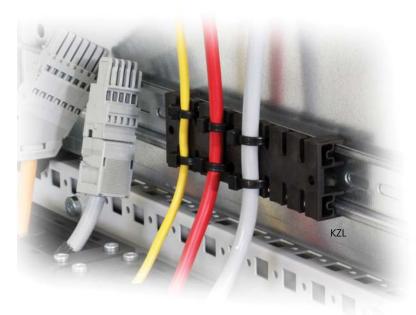


innovative creative technology

Product Catalog

A Company of the icotek Group

Strain Relief Systems



Benefits ...

1. Universal Use

Due to many types of DIN rails and screw type assembly methods, icotek offers numerous mounting options.

2. Fast and Easy Assembly

Securing the cables is done quickly and inexpensively with standard cable ties (see Page 159).

3. Secure Hold

The shape of the strain relief securely holds cable tie and cable.

4. High Packing Density

The strain relief plates are available in several sizes. The packing density can be greatly increased by multilayer mounting.

5. Flexibility

Due to the wide variety of sizes and designs, a matching product for each application can be found.

At a Glance ...

By using icotek strain relief systems the user can quickly assemble, organize and provide strain relief for cables according to EN 50262 / 62444.

The systems can be used for organizing and securing cables in machines, panels, electronic enclosures and dynamic cable carriers.







Product Group 3

Strain Relief Systems

Chapter Content

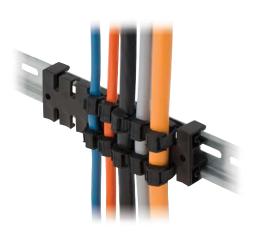
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KZL

Strain Relief Plates for Mounting Rails



Product Description

The strain relief plate KZL is used for static or dynamic applications for organizing and securing cables on machines, control panels or cable carriers.

The undercut on the comb shaped profile provides secure strain relief according to EN 50262 / 62444. Fixation of the cables is achieved by using cable ties.

KZL Strain relief plates are available for 30 mm DIN rails shape C or 35 mm DIN rails shape H.

Advantages

- Simple assembly
- Cost-effective
- High packing density
- Universal usage

Specifications

Material Polyamide (PA)

Flame class
Temperature
Properties

UL94-Vo, self-extinguishing
- 40°C to + 140°C (static)
Halogen free, silicone free

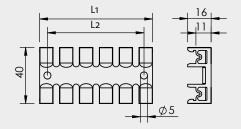
Accessories

KB Cable ties 159





Туре	Order No. for H-rails	Order No. for C-rails	Length L1	Length L2	No. of teeth	PU
KZL 11	322	250	11.5 mm		1	10
KZL 39	32260	32261	38.5 mm	28.3 mm	3	10
KZL 80	32262	32263	79.5 mm	68 mm	6	10
KZL 140	32264	32265	139.5 mm	128.1 mm	9	10



GL EN 45545-2 ECCLAB ROHS Compliant Germany



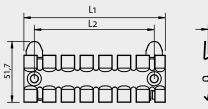
SF|ZL

Strain Relief Plates for 35 mm DIN Rail





Туре	Order No.	Length L1	Length L2	No. of teeth	PU
SF ZL 39	32351	38.5 mm	19.5 mm	3	10
SF ZL 60	32352	59.5 mm	43.5 mm	4	10
SF ZL 70	32353	69.1 mm	43.5 mm	5	10
SF ZL 87	32354	86.5 mm	68 mm	6	10
SF ZL 103	32355	102.5 mm	84 mm	7	10
SF ZL 121	32356	121 mm	102.5 mm	8	10
SF ZL 140	32357	139.5 mm	121 mm	9	10
SF ZL 180	32358	180 mm	157 mm	12	10







Product Description

The strain relief plate SF|ZL is used for assembly on 35 mm DIN rails shape H. It can be used for strain relief of cables and conduits.

The SF|ZL range is based upon the strain relief plate ZL, which is mounted on snap feet for 35 mm DIN rails shape H.

Advantages

- Simple assembly
- Cost-effective
- High packing density
- Universal usage

Specifications

Material ZL: Polyamide (PA)

SF-foot: Spring steel

Flame class

Temperature

- 40°C to + 140°C (static)

Properties

Halogen free, silicone free

Accessories

KB Cable ties 159

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ZL

Strain Relief Plates for Screw Assembly



Product Description

The strain relief plate ZL is used for static or dynamic applications for organizing and securing cables on machines, control panels or cable carriers.

The undercut on the comb shaped profile provides secure strain relief according to EN 50262 / 62444. Fixation of the cables is achieved by using cable ties.

For multilayer installation please use distance bushings, see Page 85.

Advantages

- Simple assembly
- Cost-effective
- High packing density
- Universal usage

Specifications

Material Polyamide (PA)

Flame class UL94-Vo, self-extinguishing Temperature - 40°C to + 140°C (static) **Properties** Halogen free, silicone free

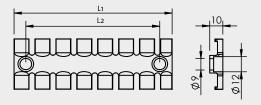
Accessories

DH Distance bushings 85 **KB** Cable ties 159





Туре	Order No.	Length L1	Length L2	No. of teeth	PU
ZL 39	32222	38.5 mm	19.5 mm	3	10
ZL 60	32224	59.5 mm	43.5 mm	4	10
ZL 70	32226	69.1 mm	43.5 mm	5	10
ZL 87	32228	86.5 mm	68 mm	6	10
ZL 103	32230	102.5 mm	84 mm	7	10
ZL 121	32232	121 mm	102.5 mm	8	10
ZL 140	32234	139.5 mm	121 mm	9	10
ZL 180	32236	180 mm	157 mm	12	10





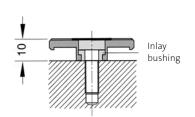


ZL-AB

Strain Relief Plates for Screw Assembly







Туре	Order No. for M4 screws	Order No. for M5 screws	Order No. for M6 screws	Length L1	Length L2	No. of teeth	PU	
ZL 39 AB	32270	□ 32280 ■ 32360	□ 32290	38.5 mm	19.5 mm	3	10	
ZL 60 AB	3227 1	32281 32361	32291	59.5 mm	43.5 mm	4	10	
ZL 70 AB	□ 32272	☐ 32282 ☐ 32362	32292	69.1 mm	43.5 mm	5	10	
ZL 87 AB	32273	☐ 32283 ☐ 32363	32293	86.5 mm	68 mm	6	10	
ZL 103 AB	32275	☐ 32284 ☐ 32364	32294	102.5 mm	84 mm	7	10	
ZL 121 AB	32277	☐ 32285 ☐ 32365	32295	121 mm	102.5 mm	8	10	
ZL 140 AB	□ 32274	32286 32366	□ 32296	139.5 mm	121 mm	9	10	
ZL 180 AB	<u>32276</u>	☐ 32287 ☐ 32367	32297	180 mm	157 mm	12	10	



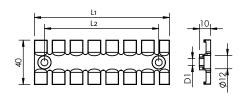
Product Description

The strain relief plate ZL-AB is used for static or dynamic applications for organizing and securing cables on machines, control panels or cable carriers.

By using aluminum / brass nuts for the screw holes, a better fit of the strain relief plate is achieved, even in high vibration environments.

Advantages

- Simple assembly
- Cost-effective
- High packing density
- Universal usage



Specifications

Material ZL: Polyamide (PA)
Bushing:

■ Aluminum■ Brass (BR)

Flame class Temperature Properties UL94-Vo, self-extinguishing - 40°C to + 140°C (static) Halogen free, silicone free

Accessories

DH Distance bushings 85 KB Cable ties 159

icotek NORTH AMERICA

ZL 03 | 04 | 05

Strain Relief Plates for Screw Assembly



Product Description

Strain relief plates ZL feature different comb widths. Thus providing a multi-purpose product for various cable sizes.

The undercut on the comb shaped profile provides secure strain relief according to EN 50262 / 62444. Fixation of the cables is achieved by using cable ties.

Advantages

- Simple assembly
- Cost-effective
- High packing density
- Universal usage

Specifications

Material Polyamide (PA)

Flame class UL94-Vo, self-extinguishing
Temperature - 40°C to + 140°C (static)
Properties Halogen free, silicone free

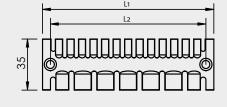
Accessories

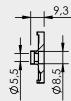
DH Distance bushings 85 KB Cable ties 159





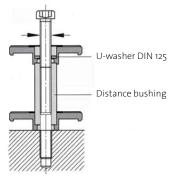
Туре	Order No.	Length L1	Length L2	No. of teeth	PU	
ZL 03	32112	63.4 mm	42 mm	4 7	10	
ZL 04	32114	95 mm	74.5 mm	6 11	10	
ZL 05	32116	119 mm	108 mm	7 13	10	





DH Distance Bushings

icotek





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Туре	Order No.	Fits with	Length	Dian inner	neter outer	PU	
DH 30	32251	ZL 03 04 05	30 mm	5.2 mm	7 mm	10	
DH 32	32252	ZL	32 mm	6.2 mm	12 mm	10	

Product Description

Due to DH distance bushings strain relief plates can be mounted in multi-layers to achieve an increase of the packing density.

Advantages

Increase of packing density

Specifications

Material Aluminum

Fits with

ZL Strain relief plates 8: ZL-AB Strain relief plates 8: