

**PFISTERER**



## LV piercing connectors

Insulated low voltage screw connectors with  
insulation piercing contact technology

# LV piercing connectors

## Live line working – easy & safe

Live line working is increasingly essential in low voltage networks. Screw connectors used for this purpose should be easy to install and ensure the best possible occupational safety. The LV piercing connector family from PFISTERER has been developed to meet today's practical requirements. Durable contacts come as standard, and have been a PFISTERER core competence for nearly 100 years.



New installations or repairs: LV piercing connectors easily and safely connect all low voltage cables – even under voltage.

### Conductor does not have to be stripped

LV piercing connectors connect and make electrical contact with conductor ends, whatever the conductor cross-section, type and insulation. Because they pierce the insulation during installation, preparatory work on the conductor, such as stripping or brushing the contact area, is eliminated.

The shear bolts on LV piercing connectors are based on patented SICON technology. The bolts are equipped with a piercing system that reliably penetrates the conductor insulation during installation. A rotatable disc at the base of the bolt prevents damage to individual strands and ensures the correct contact force for all conductor materials.

#### Benefits

- Insulation does not have to be stripped from individual conductors
- Easy, safe installation – ideal for live line working
- Shear off bolts prevent installation errors
- IP2X protection against electrical hazards
- Consistent operational reliability, according to IEC 61238-1 Class A
- Compact design – less cast resin
- Creepage distance conform to EN 60664, Pollution Degree 1

## Good occupational safety

### Cover caps with "spiral spring"

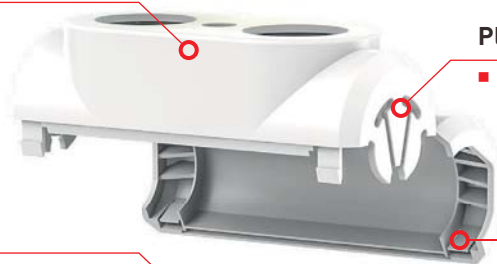
- Touch-safe during all installation steps



The insulating body and plastic cover caps provide IP2X protection against finger contact in accordance with EN 60529. On type 3 and above, plastic flaps prevent inadvertent contact with the inside of the conductor channel. The elastomer insert ensures protection against contact after the bolts shear off.

### Insulating body

- IP2X protection against finger contact



### Plastic flaps

- Protection against accidental contact

### Elastomer inlay

- Protects against contact after the bolts sheared off



### Insulating barrier

- Extends the creepage distance

### SICON technology

- Stepless shear off bolt: Full utilisation of the thread loading ensures optimum contact forces



### Piercing technology

- Rotatable disc pierces the insulation: Makes reliable contact through the conductor insulation on paper and plastic insulated cables

### Inspection hole

- Easily check the position of the conductor in the connector



### Tin-plated connector body

- Prevents the formation of an oxidation layer

### Contact ribs

- Contact geometry with piercing function





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