1 kV connection and transition joint kits

for plastic and paper insulated low voltage cables

www.pfisterer.com
Low voltage cables
Simple & safe connection

Shear bolt screw connectors have become the established technology for connecting low voltage cables. PFISTERER offers practical complete kits for simple and professional jointing of plastic insulated low voltage cables and for transitions from paper insulated to plastic insulated low voltage cables – with more than 100 years of contact technology expertise.

Ready-to-fit complete kit

Connection and transition joint kits are supplied ready to fit. Depending on the version, they contain parts and additional materials required to install four or five-core low voltage cables up to 1 kV.

In addition to heat-shrink sleeves conforming to DIN SPEC 47640, PFISTERER also offers solutions for special applications. Connection joints with a repair sleeve allow plastic insulated cables to be joined in confined spaces. Transition joints allow plastic insulated cables to be joined to paper insulated cables [N(A)KLEY and N(A)KBA].

Perfectly matched

The screw connectors are made from high-grade aluminium with excellent electrical properties. They are resistant to chemicals and corrosion, ensuring reliable contacts and cable joints that remain stable over time.

The heat-shrink sleeves are made from irradiation crosslinked semicrystalline polymers, combining high mechanical strength with excellent insulation. They are halogen-free, UV and weather resistant, and resistant to alkaline earths. On the inside, they are coated with hot-melt adhesive. This liquefies as the sleeve shrinks and makes the joint watertight when it cools down.

Benefits

- Reliable and durable electrical connection
- For all conductor types and materials
- Ready-to-fit complete kit
- Laterally watertight and corrosion-resistant
- Easy to install using standard tools
- Compact dimensions

Facts

- Voltage: up to 1 kV
- Conductor class: 1 and 2 according to EN 60228
- Conductor cross-section: 4 to 240 mm²
- Conductor material: Al, Cu
- Continuous operating temperature: -40 °C to +100 °C

Barrier or inspection hole

PFISTERER low-voltage connectors can be used with any conductor type and conductor material. Connectors with barrier enable the longitudinally watertight connection of aluminium and copper cables. The combination of connector with an inspection hole and a joint with parking position makes installation easier, especially with larger conductor cross-sections. The connectors can be pushed completely over the conductor, bending the rigid conductors is not necessary.

Inspection hole

- Check the conductor position
- Enables installation with parking position
## Connection joint kits product range

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Shear bolt</th>
<th>Barrier</th>
<th>Conductor channel</th>
<th>WAF</th>
<th>Transition joint kit article no.</th>
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</thead>
<tbody>
<tr>
<td>4 x 2.5 - 16</td>
<td>2.5</td>
<td>333</td>
<td>111</td>
<td>111</td>
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<tr>
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<tr>
<td>4 x 16 - 50</td>
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<td>4 x 25 - 95</td>
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<td>95 x 8</td>
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<td>4 x 95 - 240</td>
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<td>240 x 8</td>
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</tr>
</tbody>
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## Transition joints for special applications

In addition to the standard connection joint kits, PFISTERER offers a wide range of transition joint kits for special applications. They enable simple, safe and reliable transition from plastic insulated low voltage cables to paper insulated cables with three or four cores. A solderless earthing kit is included with all transition joints for N(A)KBA cables.

### Transition joint kit contents

- Ear-shaped conductor channel
- Earthing cord
- Roll springs
- Cu mesh tapes

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## Transition joints from plastic insulated to paper insulated cables

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## Simple installation

The shear bolt with friction disc ensures the head friction of the con-

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## Contact grooves in conductor channel

- Defined contacting
- Increased pull-out forces

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## Contacting sector-shaped conductor without round pressing

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## Connection joint kit contents

- 4 or 5 screw connectors (depending on number of cores)
- 4 or 5 inner heat-shrink sleeves (depending on number of cores)
- 1 outer heat-shrink sleeve
- Sanding paper
- Cleaning wipes
- Fitting instructions
In 1921, Karl Pfisterer founded his factory in Stuttgart for special electrical products with the aim of improving the world of power transmission. The PFISTERER Group has pursued this goal of quality and technological leadership for more than 100 years. Today, PFISTERER is one of the world’s leading specialists and system suppliers for energy infrastructure – with a complete range of cable accessories, overhead line technology and components along the entire transmission chain from power generation to consumption. With state-of-the-art manufacturing processes and 1,200 employees at 18 international locations, PFISTERER not only connects the power grids of today and tomorrow, but also makes an important contribution to a sustainable and secure energy supply.