1 kV tap-off joint sets

Tap-off joint boxes and tap-off connectors for cable branches in the low voltage network

www.pfisterer.com
1 kV tap-off joint sets
Reliably connected, reliably insulated

Tap-off joint sets from PFISTERER combine reliable connection and excellent insulation with versatility and easy installation. Proven ISICOMPACT and SCK cable tap-off connectors ensure reliable electrical contacts that remain stable over time. Our cast resin joint boxes permanently protect cable connections and branches from moisture, alkaline earths, and the ingress of dust or other foreign bodies.

Universal application
Cable branches for home power connections, cable connections in the low voltage network and transitions between cables with different types of insulation – cast resin joint boxes from PFISTERER are universal and can be used with all types of cables. The side seals feature break-out rings to adapt to different cable diameters. Depending on requirements, there is a choice of two different cast resins. Both offer ideal bonding properties on all plastic and paper insulation materials.

Simple installation
The joint consists of two half-shells that fit together with an interlocking system. This allows the shells to be placed around the cable branch first and then fixed together. The shells are highly transparent, enabling optimum positioning of the joint and a visual verification of sufficient cast resin coverage. Large filling openings with sliding covers ensure convenient pouring of the cast resin without spills or mess.

Two cast resins, two container types
FILLBRH is a modern polybutadiene-based casting resin. It contains no isocyanates, epoxides or silicones. Therefore it is not subject to labelling under German hazardous substance regulations, and is advantageous for occupational health. No reaction heat is generated during curing, which prevents the possibility of cracking or cavity formation. After curing, the cast compound remains elastic and is removable.

PFISTERER also offers PUR2000, a classic, hard polyurethane casting compound that is subject to labelling requirements. Both cast resins are available in tins as well as in a practical double-chamber bag.

Environmentally friendly and label-free
The transparent, impact-resistant joint shells are made of recycled polycarbonate. Due to the fill-quantity optimised dimensions of the joints, very little cast resin is required for each pour. In combination with FILLBRH, an isocyanate-free cast resin, PFISTERER offers a highly environmentally friendly solution for casting low voltage cable branches that is not subject to labelling requirements.

Benefits
- Innovative contact technology
- Transparent joint shells made of recycled plastic
- Suitable for all types of cable
- Fill quantity optimised to use less casting resin
- Excellent insulation properties
- Longitudinally and laterally watertight
- System tested in accordance with DIN EN 60455-3-8:2018-02, DIN EN 50655-1:2018-06 and DIN EN 50393:2015-10

Cast resins

<table>
<thead>
<tr>
<th></th>
<th>PUR2000</th>
<th>FILLBRH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic material</td>
<td>Polyurethane</td>
<td>Polybutadiene</td>
</tr>
<tr>
<td>Labelling</td>
<td>Labelling required under German hazardous substance regulations</td>
<td>No labelling required</td>
</tr>
<tr>
<td>Thermal characteristics during curing</td>
<td>Heat generation</td>
<td>No temperature increase during curing</td>
</tr>
<tr>
<td>Storage</td>
<td>Above 0 °C</td>
<td>Above 0 °C</td>
</tr>
<tr>
<td>Mechanical properties</td>
<td>Hard</td>
<td>Elastic and removable</td>
</tr>
<tr>
<td>Disposal</td>
<td>Household waste (only after curing)</td>
<td>Household waste</td>
</tr>
</tbody>
</table>

Cable branch using AM130/300 cast resin joint filled with FILLBRH

Tap-off joint sets from PFISTERER combine reliable connection and excellent insulation with versatility and easy installation. Proven ISICOMPACT and SCK cable tap-off connectors ensure reliable electrical contacts that remain stable over time. Our cast resin joint boxes permanently protect cable connections and branches from moisture, alkaline earths, and the ingress of dust or other foreign bodies.

Universal application
Cable branches for home power connections, cable connections in the low voltage network and transitions between cables with different types of insulation – cast resin joint boxes from PFISTERER are universal and can be used with all types of cables. The side seals feature break-out rings to adapt to different cable diameters. Depending on requirements, there is a choice of two different cast resins. Both offer ideal bonding properties on all plastic and paper insulation materials.

Simple installation
The joint consists of two half-shells that fit together with an interlocking system. This allows the shells to be placed around the cable branch first and then fixed together. The shells are highly transparent, enabling optimum positioning of the joint and a visual verification of sufficient cast resin coverage. Large filling openings with sliding covers ensure convenient pouring of the cast resin without spills or mess.

Two cast resins, two container types
FILLBRH is a modern polybutadiene-based casting resin. It contains no isocyanates, epoxides or silicones. Therefore it is not subject to labelling under German hazardous substance regulations, and is advantageous for occupational health. No reaction heat is generated during curing, which prevents the possibility of cracking or cavity formation. After curing, the cast compound remains elastic and is removable.

PFISTERER also offers PUR2000, a classic, hard polyurethane casting compound that is subject to labelling requirements. Both cast resins are available in tins as well as in a practical double-chamber bag.

Environmentally friendly and label-free
The transparent, impact-resistant joint shells are made of recycled polycarbonate. Due to the fill-quantity optimised dimensions of the joints, very little cast resin is required for each pour. In combination with FILLBRH, an isocyanate-free cast resin, PFISTERER offers a highly environmentally friendly solution for casting low voltage cable branches that is not subject to labelling requirements.

Benefits
- Innovative contact technology
- Transparent joint shells made of recycled plastic
- Suitable for all types of cable
- Fill quantity optimised to use less casting resin
- Excellent insulation properties
- Longitudinally and laterally watertight
- System tested in accordance with DIN EN 60455-3-8:2018-02, DIN EN 50655-1:2018-06 and DIN EN 50393:2015-10

Cast resins

<table>
<thead>
<tr>
<th></th>
<th>PUR2000</th>
<th>FILLBRH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic material</td>
<td>Polyurethane</td>
<td>Polybutadiene</td>
</tr>
<tr>
<td>Labelling</td>
<td>Labelling required under German hazardous substance regulations</td>
<td>No labelling required</td>
</tr>
<tr>
<td>Thermal characteristics during curing</td>
<td>Heat generation</td>
<td>No temperature increase during curing</td>
</tr>
<tr>
<td>Storage</td>
<td>Above 0 °C</td>
<td>Above 0 °C</td>
</tr>
<tr>
<td>Mechanical properties</td>
<td>Hard</td>
<td>Elastic and removable</td>
</tr>
<tr>
<td>Disposal</td>
<td>Household waste (only after curing)</td>
<td>Household waste</td>
</tr>
</tbody>
</table>

Cable branch using AM130/300 cast resin joint filled with FILLBRH
### Tap-off joint boxes

<table>
<thead>
<tr>
<th>Article number</th>
<th>Type</th>
<th>Quantity</th>
<th>Main line</th>
<th>Branch line</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVM75/300</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVM95/400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM130/300</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM140/420N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM140/420K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM165/450</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SK150/50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SK150/95</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tap-off joint sets

<table>
<thead>
<tr>
<th>Article number</th>
<th>Type</th>
<th>Quantity</th>
<th>Main line</th>
<th>Branch line</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVM160/500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVM165/450</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Volume optimisation

- **Tap-off joint boxes**:
  - Excellent cast resin
  - Better for the environment
  - Less cast resin

- **Tap-off joint sets**:
  - Variable sealing elements
  - Adapt to any cable diameter

### Installation markings

- **Tap-off joint boxes**: Easy alignment
- **Tap-off joint sets**: Ready-to-fit sets including tap-off connector. ISICOMPACT is a reliable contact technology.

### Innovative interlocking system

- **Tap-off joint boxes**: Easy filling without a funnel
- **Tap-off joint sets**: Easy installation in confined spaces

### Expertise made in Germany

- Cable tap-off connector, joints and cast resins are produced at approved facilities in Germany. Over 100 years of experience in electrical connections and insulation ensure reliable and durable branch tap-off sets. ISICOMPACT conforms to all applicable international standards.

---

**Tap-off joint boxes**

- Shell material: polystyrene
- Tap-off joints: made of recycled polycarbonate
- Tap-off joint sets: made of thick-walled polypropylene with strain relief

**Tap-off joint sets including reliable contact technology**

- Ensure the tap-off joint boxes, ISICOMPACT conforms to all applicable international standards.
- Over 100 years of experience in electrical connections and insulation ensure reliable and durable branch tap-off sets. ISICOMPACT conforms to all applicable international standards.

---

**Table of contents**

- Tap-off joint boxes
- Tap-off joint sets
- Volume optimisation
- Installation markings
- Innovative interlocking system
- Expertise made in Germany
In 1921, Karl Pfister 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 fittings, 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.