The new PFLITSCH ProTect corrugated conduit system expands the existing product range in the field of cable protection. The innovative system of flexible corrugated conduits and fittings made of high-quality polyamide combines quality, safety and ease of installation.

The PFLITSCH ProTect corrugated conduit system is characterized by its very good resistance to weathering and the effects of UV radiation, in addition to the excellent degree of protection it offers against mechanical and chemical stresses. Selected types satisfy the strict requirements of fire protection standard EN 45545-2 for rail vehicles.

The PFLITSCH ProTect fittings, with the characteristic retaining ring, are compatible with all ProTect corrugated conduits with fine and coarse profiles and guarantee a safe and permanent connection.

The approved system is available in three versions. Even the basic variant achieves IP protection rating 66, while the variant with additional sealing ring satisfies the strictest requirements of IP protection ratings 68 and 69.

The PFLITSCH UNI ProTect version furthermore allows additional sealing of the cable installed in the corrugated conduit, providing it with IP 68 protection and relieving the strain on the cable. The PFLITSCH “soft pinching” principle thereby guarantees maximum protection for the cable.

PFLITSCH – international trend-setter in cable management for 100 years

PFLITSCH is a market leader in the field of safe cable entries and routing in an industrial environment. The brand is synonymous internationally with “Made in Germany” quality for cable glands and cable trunking. Throughout its 100-year history, PFLITSCH has impressed its customers with innovative ideas that deliver more reliability and the best installation options.

Applications

PFLITSCH ProTect is the perfect solution when it comes to protecting cables in industrial applications where the strictest requirements must be satisfied.

In plant and mechanical engineering applications the requirements regarding isolation from foot traffic loads, mechanical and chemical resistance, together with system impermeability and long-term stability are right at the top of the requirements list.

In the field of automation and robotics on the other hand, all system components must be capable of withstanding the extreme dynamic stresses exerted by industrial robots. Characteristics such as torsional stiffness, flexibility and abrasion resistance are decisive selection criteria here.

In the railway industry products which provide reliable protection against external influencing factors such as heat, cold and (to some extent) vibration are the primary choice. The impact resistance of the corrugated conduits and fittings at low temperatures takes on particular significance here, as does the method of the materials in terms of fire and smoke protection and the test requirements of fire protection standards such as EN 45545-2.

PFLITSCH ProTect corrugated conduit system. Passion for the best solution.
PFLITSCH ProTect – Corrugated conduits

- Suitable for all PFLITSCH ProTect corrugated conduits with fine and coarse profiles.
- Low-lossing connections resistant to impacts and vibrations.
- Very good resistance to weathering and UV radiation.
- Very good resistance to chemicals including a large number of acids, alkalis and oils.
- Fire protection classification UL94 V0.
- Temperature range: -40 °C to +105 °C, short-term maximum +150 °C.
- Free of halogens and cadmium.
- RoHS compliant.
- Hazard level EN 45545-2.

**Fittings**

<table>
<thead>
<tr>
<th>Fittings</th>
<th>Description</th>
<th>Nominal width/ connecting thread</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM</td>
<td>Straight fitting</td>
<td>NW7 – NW48 (M12) – NW63 (M63)</td>
<td>√ √</td>
</tr>
<tr>
<td>SR</td>
<td>Straight fitting with UNI Dicht</td>
<td>NW7 – NW48 (M12) – NW63 (M63)</td>
<td>√</td>
</tr>
<tr>
<td>RF</td>
<td>90° angle fitting</td>
<td>NW10 – NW48 (M12) – NW63 (M63)</td>
<td>√ √</td>
</tr>
<tr>
<td>CS</td>
<td>Straight connector</td>
<td>NW10 – NW63 (M12) – NW63 (M63)</td>
<td>√</td>
</tr>
<tr>
<td>Y</td>
<td>T connector 2x NW7 / 1x NW10 / 2x NW10 / 7x NW10</td>
<td>NW10 – NW63 (M12) – NW63 (M63)</td>
<td>√ √</td>
</tr>
</tbody>
</table>

**Applications**

- Plant and mechanical engineering  
- Automation/Robotics  
- Railway industry  
- Automotive industry  
- Shipbuilding  

**Available corrugated conduit profiles**

- Coarse
- Fine

PFLITSCH ProTect – Fittings

**Material**

- PA 6
- PA 12
- TPC

**Temperature range (min./max.)**

- NW7 – NW48: -40 °C / +105 °C
- NW7 – NW63: -40 °C / +105 °C
- NW10 – NW63: -40 °C / +105 °C
- NW12 – NW63: -40 °C / +105 °C

**Fire class UL94**

- HB
- V2
- V0

**Hazard level EN 45545-2**

- EN HL2
- EN HL3

**Approvals**

- RoHS compliant
- WEEE compliant
- RECYCLABLE

**Corrugated conduits**

- CECO
- GRSP
- CSMP
- CDP
- CSMP
- CSP
- CDP
- CS

**Applications**

- Plant and mechanical engineering  
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- Railway industry  
- Automotive industry  
- Shipbuilding  

**Material**

- PA or brass

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