

Application recommendations

PMA conduits and connectors in applications exposed to extreme temperatures and conditions



PMA Connectors of these PMA lines are suitable for applications exposed to extreme temperatures and conditions:

- PMAFIX Pro
- PMAFIX IP68
- PMAFIX IP68GT
- PMAFIX IP66
- PMA Divisible System

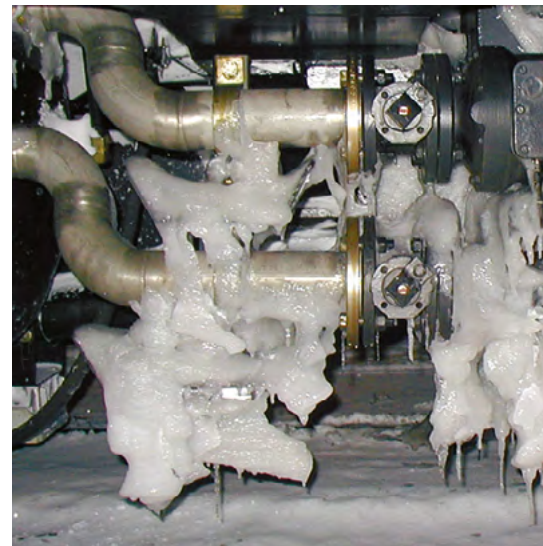
For high and low temperatures (free from halogens and cadmium)

- **PSX:** Polyetherimid – Light-duty conduit with good chemical resistance
 - Suitable for static applications and those subjected to minimal movements
 - Temperature range: -100 °C ... +170 °C continuous, +200 °C short-term
- **PHT:** Polyamid elastomer – Medium/heavy-duty conduit with very good pressure resistance
 - For dynamic, static and permanent applications at high and very low temperatures
 - Very good mechanical characteristics even at extremely low temperatures below -40 °C
 - Extremely high impact resistance down to -50 °C
 - Temperature range: -50 °C ... +135 °C continuous, +180 °C short-term
- **VCS:** PA6 – Heavy-duty conduit with very good mechanical characteristics even at strong temperature fluctuation
 - Very good mechanical and impact strength even at low temperatures and low humidity
 - Temperature range: -50 °C ... +105 °C continuous, +160 °C short-term

- **XVCSF:** PA6 - flexible, heavy-duty multilayer conduit with blue inner layer is suitable for use in rail static external applications such as under carriage, bogie, etc.
 - Excellent resistance to UV rays and weathering
 - Good flexibility
 - High compression and impact strengths at low temperature and low humidity
 - Self-extinguishing
 - Free from halogens and cadmium
 - Temperature range -50°C ... +105°C continuous, +160°C short-term specifications

For high and low temperatures (excellent chemical resistance)

- **PVD:** PVDF – Medium-duty conduit with excellent chemical resistance even at high temperatures
 - Suitable for static applications and those subjected to minimal movements
 - Temperature range: -60 °C ... +150 °C continuous
 - Excellent UV resistance



Possible alternatives: Depending on project and application area further PMA products may be suitable.

Please contact the local PMA specialist or PMA AG, CH-8610 Uster for further application engineering support. Suitable and approved connectors are available up to IP69K.

For technical details and specifications please see our technical data sheets on www.pma.ch.

