

Application recommendations

PMA conduits, braids and connectors in machine building applications



PMA Connectors of these PMA lines are suitable for applications in machine building:

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

In and on the machine

- **PCL:** PA6 – Medium-duty conduit for static and slightly dynamic applications
 - Very good mechanical characteristics even under extreme conditions, such as low temperatures and low humidity
 - Very good ductility and good reversed bending characteristics
- **LLPA:** PA6 – Medium-duty conduit for static applications and those subjected to occasional movements
 - Very good flexibility
 - Good impact strength even at low temperatures and low humidity

To and from the machine

- **VOH:** PA6 – Very heavy-duty conduit preferably for static applications
 - Excellent pull-out resistance
- **XVCS2H:** PA12/Polyolefin – Heavy duty conduit preferably for static applications
 - Multilayer conduit with low friction inner layer for easy cable insertion
 - Excellent mechanical and impact strength even at low temperatures
 - PA12 outer layer provides excellent long term UV resistance

In and on the machine (automation/dynamic applications)

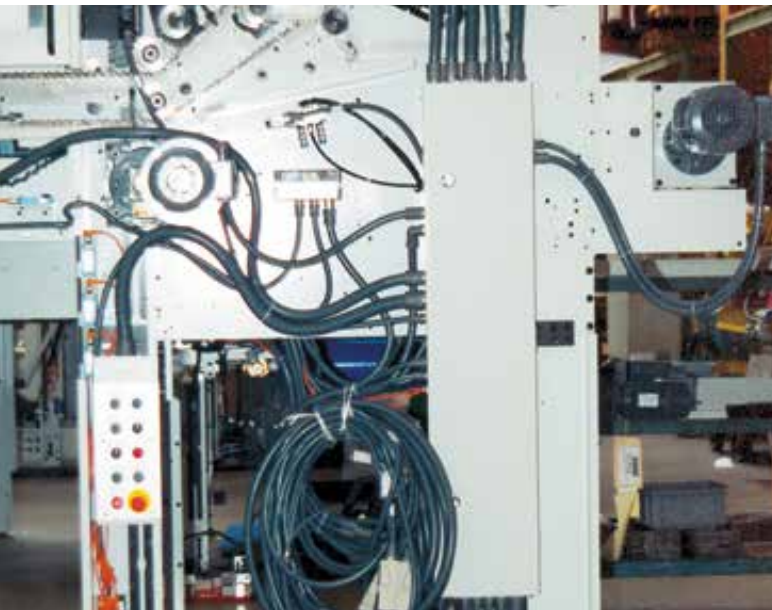
- **PIS/PIH:** PA12 – Medium-duty and heavy-duty conduit preferably for dynamic applications also in outdoor applications
 - Excellent flexibility and fatigue / reversed bending
 - In black excellent weathering and UV resistance
- **XR90:** PA12 – Very flexible, medium-duty conduit for highly dynamic systems in robotics and automation
 - Three layer conduit
 - Very good chafing resistance
 - Integrated wear indicator
- **POS:** Polyolefin – Medium-duty conduit for applications subjected to continuous movements
 - Excellent flexibility and fatigue / reversed bending
 - Very good resistance against strong acids

Divisible System for retrofit cable protection

- **PACOF:** PA6 – Medium-duty divisible conduit with good mechanical characteristics
- **PPCOF:** PP – Medium-duty divisible conduit with good chemical resistance

Braids: Cable bundling and abrasion protection

- **F.66 / C.66 / L.66:** PA6.6
- **F.PX / L.PX:** Polyester – Braids for bundling + protection of elect. wires
- **G.PX:** Polyester – Open, self rewinding construction for fast installation



All PMA conduits for machine building applications are self-extinguishing, free from halogens and cadmium and non-corrosive. Suitable and approved connectors are available up to IP69K.

For technical details and specifications please see our technical data sheets on www.pma.ch. Please contact the local PMA specialist or PMA AG, CH-8610 Uster for further application engineering support.