

# 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
  - UL Recognized
- **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
  - UL Recognized

### 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)

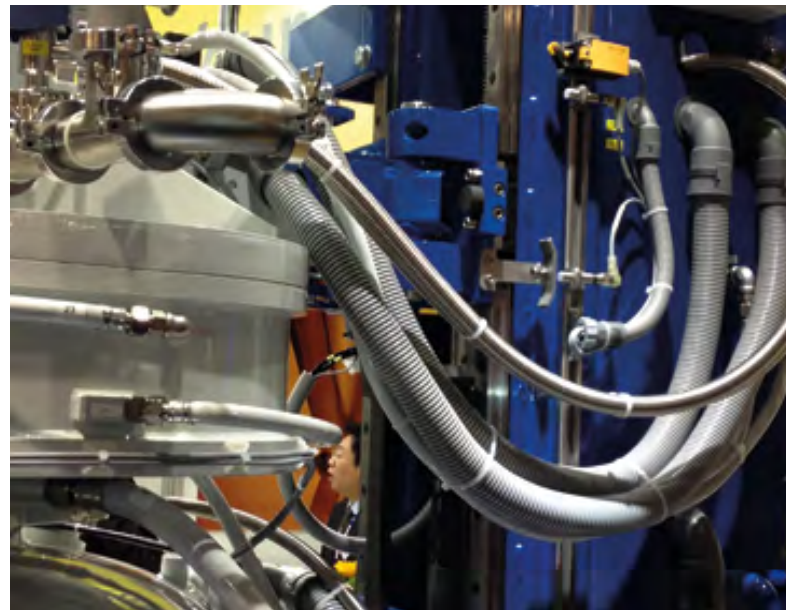
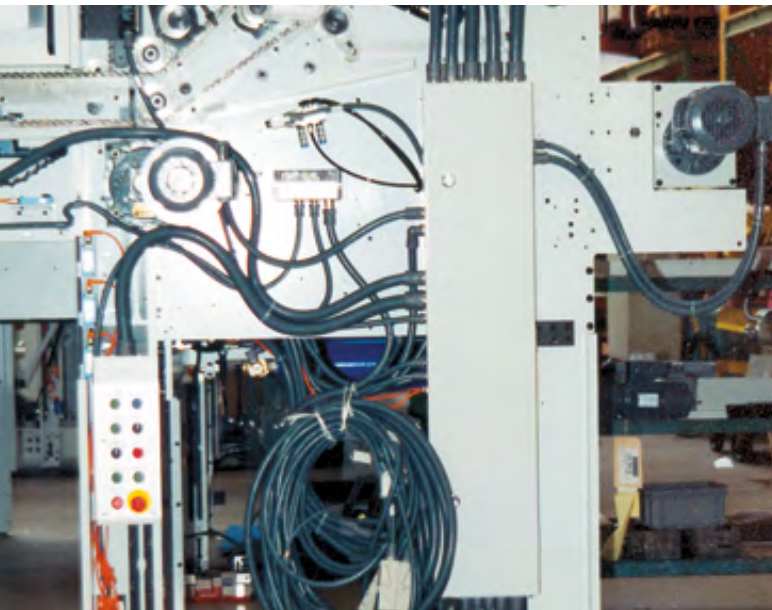
- **PIS/PIH:** PA12 – Medium-duty and heavy-duty conduit preferably for dynamic applications also in outdoor applications
  - Excellent flexibility and fatigue / reversed bending
  - In black excellent weathering and UV resistance
  - UL Recognized
- **XR90:** PA12 – Very flexible, medium-duty conduit 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
- **B.PX:** Polyester - A lightweight braided hose designed for bundling and protection of cables and wires

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](http://www.pma.ch). Please contact the local PMA specialist or PMA AG, CH-8610 Uster for further application engineering support.