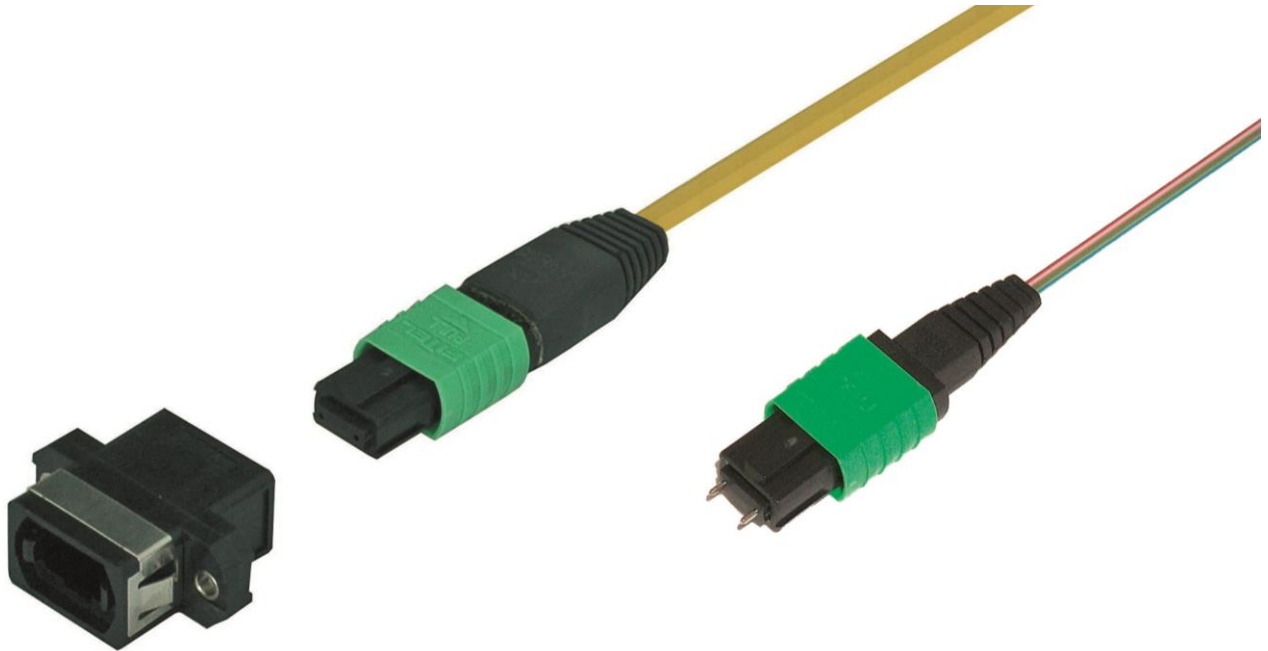


Connectors ▶ MPO Connector



General Information

The MPO connector system is a multi-fibre connector system with a high packing density on the basis of a high-precision MT ferrule. The spring-loaded push/pull locking mechanism of the MPO is easy to handle while guaranteeing the secure mating of the connectors - both important properties for critical connections with high packing densities.

High-precision guiding pins ensure the exact adjustment of the ferrule. The MPO made by FOC is available as a 4-, 8-, and 12- channel version, both in PC and APC design, and with multimode and singlemode fibres. Its exceptional optical performance (low IL and high RL values) is achieved by FOC's sophisticated polishing process.

Features

- Accommodation of up to 12 fibres
- Low costs per mated connection for applications with high packing densities
- Push/pull mechanism

- Comfortable handling
- High-precision MT ferrule and sophisticated polishing process
- Lowest IL values and high repeatability

Applications

- Patch cords and fan-out assemblies
- ATM and DWDM high-speed communication systems
- Multimedia applications
- CATV and video transmissions
- Data transmission and telecommunication networks
- Industrial applications

Standards

- IEC 61754-7 Fibre optic connectors interfaces - Type MPO connector family

Available as

- Terminated connector

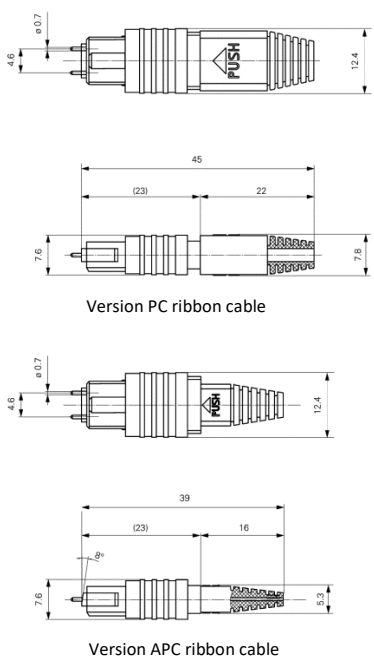
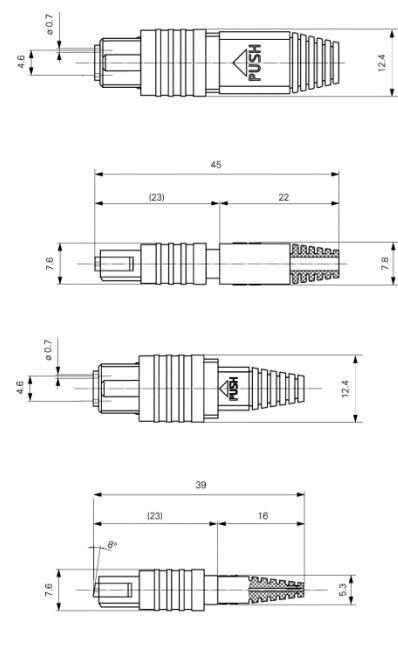
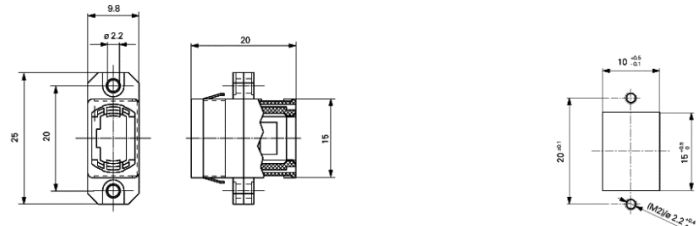
Specifications

Standard	Singlemode PC	Singlemode APC	Multimode	Unit	Test conditions
Insertion Loss (IL)	typ. 0,25 max. 0,75	typ. 0,25 max. 0,75	typ. 0.35	dB	IEC 61300-3-4; $\lambda = 1300/1550\text{nm}$
Return Loss (RL)	min. 40	min. 60 ¹	typ. 20	dB	IEC 61300-3-6; $\lambda = 1300/1550\text{nm}$
Repeatability of IL	max. $\pm 0,2$			dB	over complete life time
Durability	1000 matings				
Operating temperature range	- 40 to + 85 ²			°C	
Storage temperature range	- 40 to + 90 ²			°C	

¹ measured with precision reflectometer

² The temperature range of the cable used may limit the connector specifications.

Dimensions

MPO-A1 connector (with pins)	MPO- A2 connector (without pins)
<p>Designs: MPO-A1 - PC, MPO-A1 - APC Ferrule material: MT (plastics) External parts: Plastics</p>  <p>Version PC ribbon cable</p> <p>Version APC ribbon cable</p>	<p>Designs: MPO-A2 - PC, MPO-A2 - APC Ferrule material: MT (plastics) External parts: Plastics</p> 
Adapter	
<p>External parts: Plastics, black</p>  <p>Mounting holes max. wall thickness 1.6mm</p>	

