

MPO/MTP HYBRID PATCHCORD

Description

atg offers a range of MPO/MTP multifibre products, ranging from patchcords, fanout hybrid cable, truck cable, pigtailed and cassette. The MPO/MTP, with the push-on/pull-off insertion release mechanism, provides consistent and repeatable interconnections up to 48 fibers for today's 40G and 100G network. MPO/MTP hybrid cable are custom-built with various type of connectors and special configuration. All connectors are factory polished and terminated with full testing before delivery.



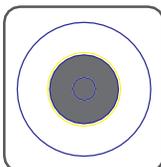
Features and Benefits

- Up to 24 fibres MTP/MPO per connector
- Halogen free (LSZH) and low smoke to IEC 61034 and EN 50286
- Flame retardant to IEC 60332-3C and EN 50266-2-4
- Non corrosive to IEC 60754-2 (FRNC) and EN 50267
- A pre-terminated, easy-to-install, high fibre density cabling solution
- Pre-installed grip option supports up to 450N loads.
- Singlemode, OM3, OM4 and OM5 fibres
- MTP / MPO connector complying ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604

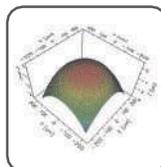
Application

- Equipment Interconnections
- Telecommunications networks
- Broadband/CATV networks
- Data communications networks, including high-bandwidth equipment Interconnections for parallel optical transmitters and receivers

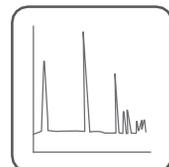
100% Lightem Assurance



Connector Surface Inspection



Geometric Inspection



Optical Inspection

Termination Specifications

Parameter	MPO / MTP Values					
	Standard			Premium		
	SM		MM	SM		MM
UPC	APC	UPC		APC		
Insertion loss (each channel)	≤0.75 dB	≤0.75 dB	≤0.5 dB	≤0.35dB	≤0.35dB	≤0.35 dB
Return loss (each channel)	≤-40 dB	≤-55 dB	/	≤-40dB	≤-55dB	/
Test Wavelength	1310nm			850nm		
Ferrule	Composite					
Connector housing	Composite					
Durability	≤0.2 dB at 200 cycles					
Operating Temperature	-20° C ~ +70° C					
Storage Temperature	-20° C ~ +70° C					

Parameter	SC/LC		
	Standard		MM
	UPC	APC	
Insertion loss (each channel)		<0.3 dB	<-25 dB
Return loss (each channel)	<-50 dB	<-65 dB	/
Test Wavelength	1310nm		
Ferrule	Composite		
Connector housing	Composite		
Durability	≤0.2 dB at 200 cycles		
Operating Temperature	-40° C ~ +85° C		

Additional MPO/MTP information

- Transceivers contain pins, and the mating MPO cord connector are pinless.
- Method B is commonly used option in MPO-MPO or MTP-MTP Patchcords.

MPO (Multi-Fibre Push On)

MPO-8: 8 fibre MPO supports up to four duplex channels, and used in QSFP transceivers. It uses fibre 1-4 and 8-12, four to transmit and four to receive.

MPO-12: Is the Global recognised standard interface for Multimode and Singlemode applications.

MPO -24: Is a most cost-effective method to deploy parallel and duplex applications, more fibre per port, cleaning and inspect of fibres is quicker, faster connection of multiple fibres



MTP (Multi-Fibre Pull Off)

MTP is a brand name for an MPO connector manufactured by US Conec. It conforms to MPO specs.

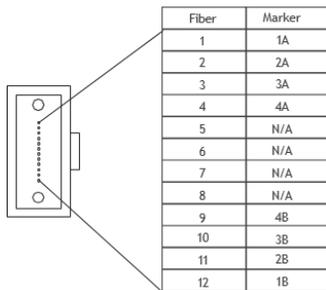
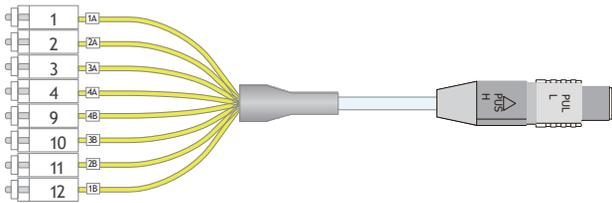
MTP is Fully compliant with generic MPO and can interconnect directly with MPO infrastructure.

MTP was designed to improve the mechanical and optical performance compared to generic MPO.

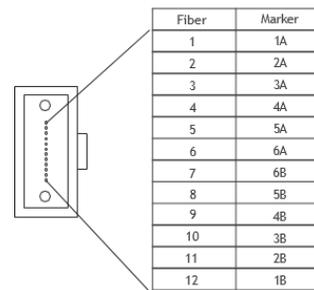
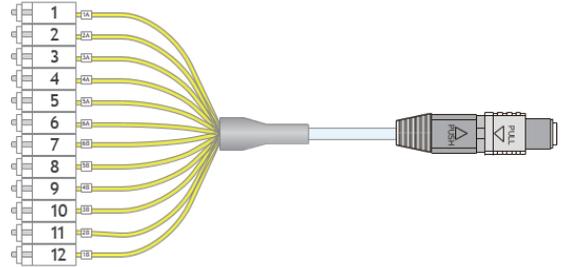
MTP is a high performing Connector, engineered for better mechanical and optical performance with floating ferrule and stainless-steel pins

Product MPO-LC/SC Diagram

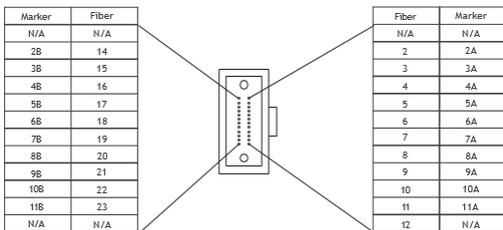
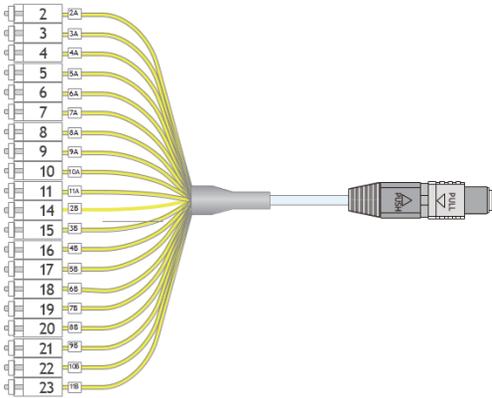
12A -12Fibres, 5-8 channels unuse



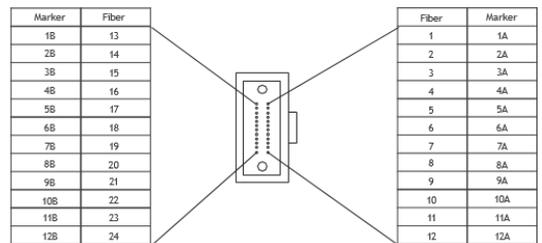
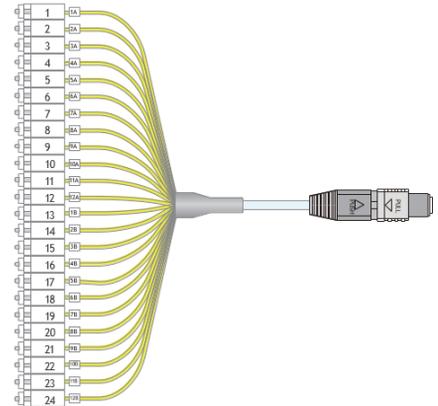
12A -12Fibres, 5-8 channels unuse



24A - 24 fibres, 1,12,13,24 channels unuse

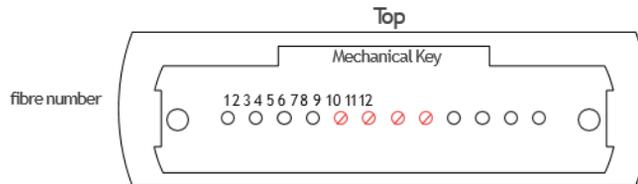


24F - 24 fibres all channels use

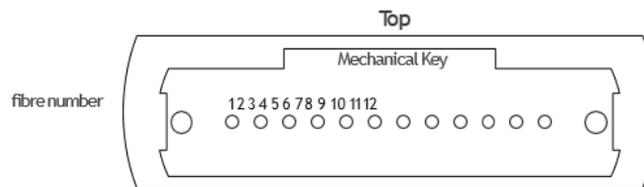


MPO Connector Pinouts

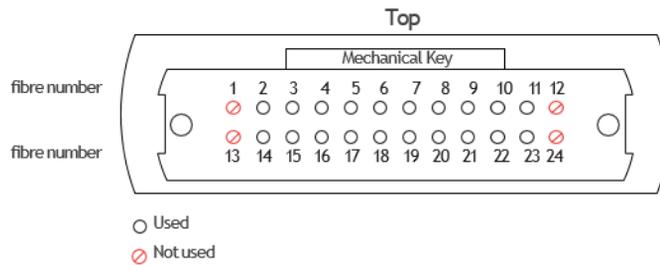
12A- 12 fibres, 5-8 channels unuse



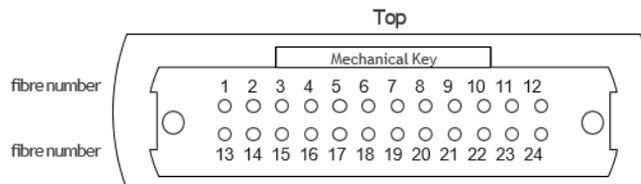
12F - 12 fibres all channels use



24A - 24 fibres, 1, 12, 13, 24 channels unuse



24F - 24 fibres all channels use



Ordering Information:

Please contact atg for more detail and delivery times