

Amphenol

FIBER OPTIC PRODUCTS

MPO CABLE ASSEMBLIES



Product Spotlight
July 13th, 2017



MPO Cable Assemblies

MPO assemblies are becoming increasingly popular due to the high density applications in the marketplace. MPO assemblies are offered with 8, 12, and 24 fiber connector options. Available with ribbon, round, and trunk cable configurations, Amphenol's MPO connectors meet TIA/EIA 604-5 and IEC 61754-7. MPO assemblies are offered with straight, crossed, or QSFP pin outs.

Used in a variety of applications including, structured cabling, optical switching, parallel optics, and fiber management systems. Ideal for use as 40G (40GBASE-SR4) links in between two QSFP+ transceivers, and as backend trunk or distribution cable. The 24 fiber MPO connector is able to deliver three individual 40G links or a single 100G link for parallel optics. Please contact Amphenol for assistance with configuring the required cable assembly.



Ribbon Conn. w/ Pull Tab

Benefits

- Compatible with industry standard connectors
- All assemblies meet TIA/EIA and IEC intermateability standards
- High fiber capacity for dense applications
- Push/pull latching mechanism to ensure connection
- Pins on male connector ensure proper alignment
- MPO cables also available in a patented traceable style to locate cables in high density applications
- Multiple accessory options available (push/pull tab and boots) to assist with routing and congestion problems in tight spaces

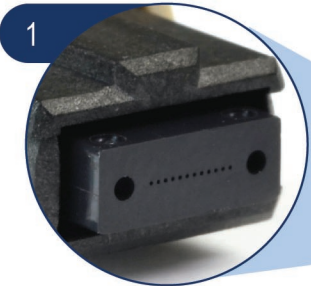
Features

- 8, 12, and 24 fiber options
- Available in A, B, and C polarity per TIA 568-C
- Custom wiring configuration available
- Available in a wide variety of connector types, cable designs, and lengths
- Customized breakout lengths and fanout sizes available
- RoHS compliant
- Available in both Singlemode and Multimode fiber types
- Straight, crossed, and QSFP wiring available

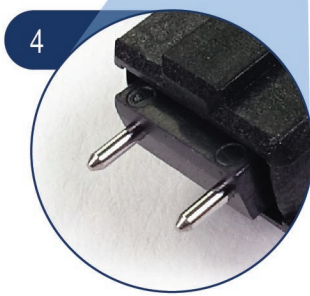
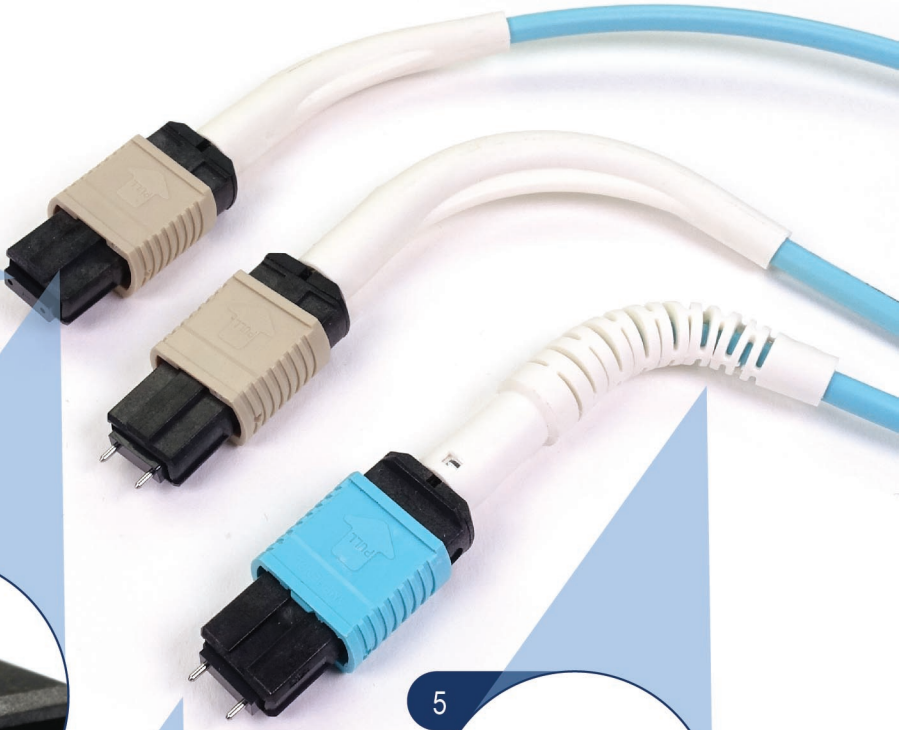
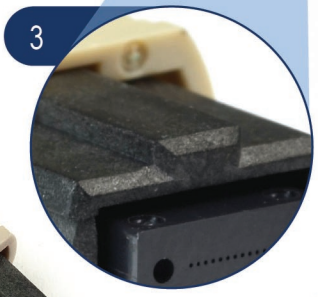
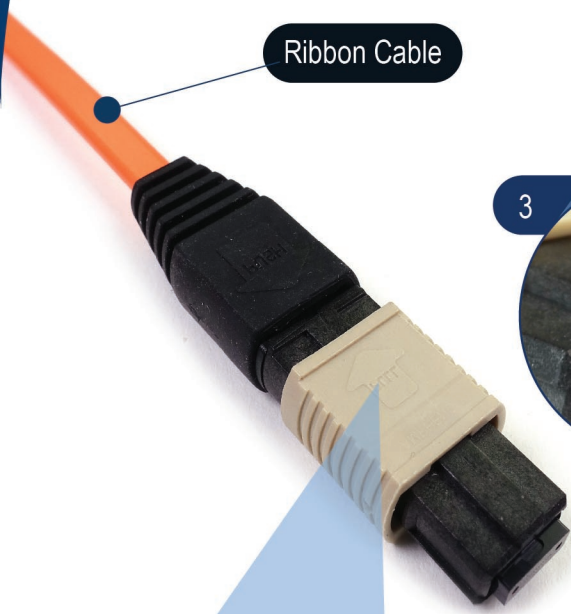


Connector w/ Adapter

1. Thermoplastic ferrule
2. Color-coded housings
3. Keyed for alignment
4. Alignment pins
5. Various boot options



Ribbon Cable



Specifications

Insertion Loss:	$\leq 0.75\text{dB}$, APC $\leq 0.50\text{dB}$, M/M $\leq 0.35\text{dB}$, Low Loss
Return Loss:	$\leq -55\text{dB}$ S/M Angle (APC)
Durability:	< 0.2dB change, 200 mating cycles

Commitment to Quality

Amphenol

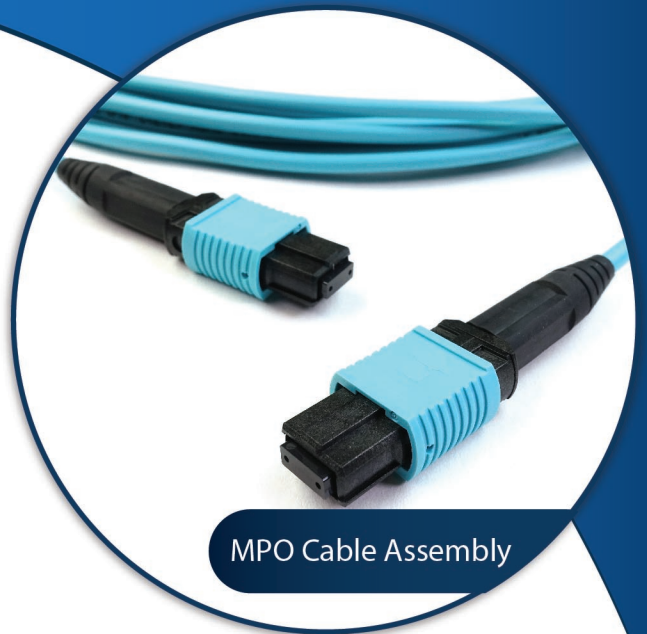
Amphenol is the world's leading interconnectivity provider. Founded in 1932, Amphenol designs, manufactures, and markets fiber optic, electrical, and coaxial interconnect products. Amphenol products are engineered and manufactured in the Americas, Europe, Asia, and Africa and offered through a worldwide sales and marketing organization.

Experience

As a manufacturer with over 80 years of interconnect design and development, Amphenol leads innovation in connector technology. Utilizing this experience, Amphenol is able to develop a cost effective end-to-end solution to satisfy a customer's full connectivity and cabling needs.

Reliability

Amphenol has a long history of total quality performance. Our high quality products, helpful customer service, and dependable product support from design through production result in satisfied customers.



MPO Cable Assembly



Industry Compliance

Connectors are mechanically and optically intermateable with industry standard connectors and adapters and conform to TIA/EIA, IEC, and Telcordia specifications

RoHS compliant

Applications

Data Centers

Small Cells

IT/Datacom

Wireless

MPO Die-cast and Plastic Adapters

- Various flange options as well as patented internal shuttering available





SM/MM Male Assemblies



MPO Traceable Patch Cord*

- Flashlight style tool to identify the other side of a patch cord in high density area
- LED indicator at both ends of jumper
- Easy-to-use flashlight with detachable identification cord and carrying case

*patented

Traceable Flashlight*

*not to scale



MPO to LC Breakout

- Assemblies wired for custom applications
- Customized breakout lengths and fan-out sizes available
- Meets QSFP requirements up to 10Gb/s per channel for a 40G interface

