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.

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
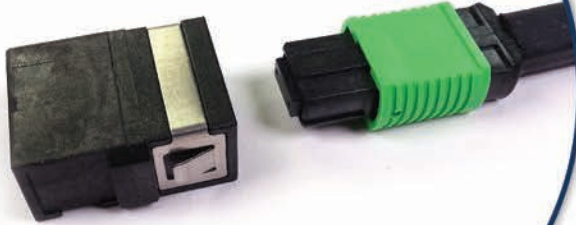
Features

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

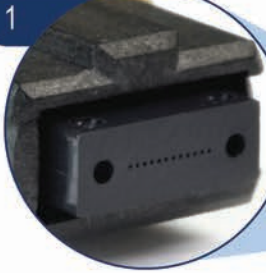## Applications

Data Centers	Small Cells
IT/Datacom	Wireless

1. Thermoplastic ferrule
2. Color-coded housings
3. Optional flippable key
4. Alignment pins
5. Various boot options

Connector w/ Adapter

1

Ribbon Cable

3

2

4

5

Specifications

Insertion Loss:	≤0.75dB, APC ≤0.50dB, M/M ≤0.35dB, Low Loss
Return Loss:	≤-55dB S/M Angle (APC)
Durability:	< 0.2dB change, 200 mating cycles

MPO
Push/Pull Tab

Designed with high density applications in mind, Amphenol's MPO push/pull tab makes inserting and removing MPO assemblies a breeze. In high density environments like data centers, where many MPO connectors are stacked beside one another, it can be difficult to grasp the MPO by the sleeve to insert or remove. By holding the end of the push/pull tab, one can more easily push to insert the MPO or pull to remove.

The Amphenol push/pull tab is easily installed over the MPO connector, making it quick and simple to install in the field.

EASY TO INSTALL

Method 1

1 Start with push/pull tab in hand

2 Holding tab perpendicular to MPO, slide over the MPO sleeve

3 Rotate tab over sleeve

4 When fully rotated the tab will snap in place

Method 2

1 Start by placing tab over MPO boot

2 Slide tab forward over MPO rear body until it snaps in place

Top View

Bottom View

Final Position

Push/Pull Tab is only compatible with Amphenol MPO

MPO
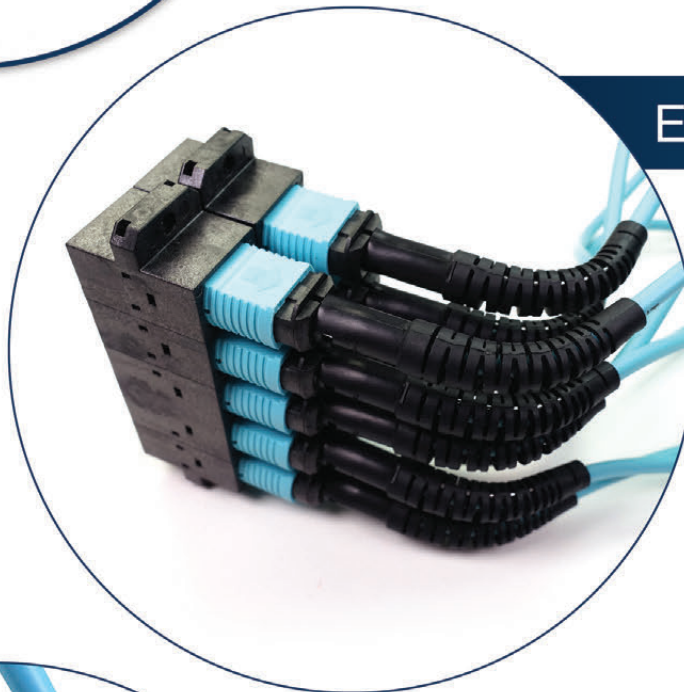## Flexible Boot

Amphenol's MPO connector flexible strain relief boots simplify cable routing in high density panels. The installer can angle the flexible boot on each individual cable to any desired direction to help neatly dress the fibers and improve cable routing.

When high density panels are fully populated, the flexible boot is a great benefit over rigid boots for cable routing. The angle can be adjusted from 0 degree to 90 degrees while in the field

Easy Cable Routing

Flex To Any Position