A COMPLETE MPO POLARITY, CONTINUITY AND CONNECTOR INSPECTION SOLUTION FOR SHORT FIBER LINKS (UP TO 5 KM)



ConnectorMax







nttps://goo.gl/LXmmbk

"Timely and needed solution as the use of MPO cables/connectors is increasing and from real world experience polarity and connector cleanliness are key issues. Having a simple testing solution would be beneficial."

- Judge's comment

Feature(s) of this product is/are protected by one or more of: pending US patent(s).

All-in-one, easy-to-use solution to validate the polarity type, continuity and connector cleanliness of MPO/MTP™ links in a single automated test.

KEY FEATURES

Fully automated, quick test process

Single solution to test MPO 12 and MPO 24 fiber cables

Same unit supports both multimode and singlemode

Cable stowing system supports APC, UPC, male (pinned) and female (unpinned) connectors

Customizable pass/fail thresholds

Automatic PDF reporting

Compatible with Android™ devices

APPLICATIONS

Central office re-architectured as data center (CORD)

Data centers

SUPPORTED TESTS

MPO cable polarity type identification

MPO cable continuity confirmation

MPO connector endface inspection and analysis

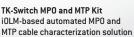
RELATED PRODUCTS AND ACCESSORIES













¹ MTP is a registered trademark of US Conec Ltd.

² The ConnectorMax MPO Link Test Solution is patent pending.









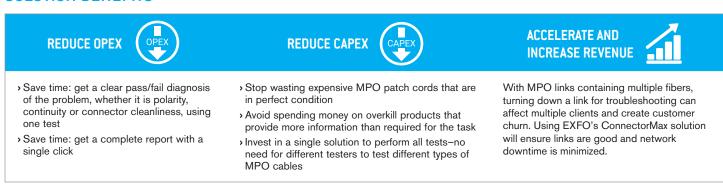
SOLUTION OVERVIEW

Multifiber push-on (MPO) connectors are increasingly popular because they provide many advantages to high-speed network operators, owners and installation companies. Increasingly, telcos are also reconfiguring their CORD and deploying MPO cables with 12, but mostly 24 fibers. However, since the main source of loss in short links is connector-related, not properly testing and caring for MPO connectors puts networks at risk.

Techs need simple, easy-to-use tools—and a clear, reliable method—to get the essential testing required done quickly and accurately.

ConnectorMax MPO Link Test Solution combines the three essential tests needed to validate MPO cables and perform short-link testing into one automated step. This solution brings together the ConnectorMax Multifiber Source with the ConnectorMax Fiber Inspection Probe to deliver a quick and easy-to-use solution that validates the polarity type, continuity and connector cleanliness of MPO links. Results are loaded in the ConnectorMax Analysis Software, an app for mobile devices providing clear pass/fail status and reporting functions, making it easy for technicians to perform and view the results of all three of these tests on the spot.

SOLUTION BENEFITS

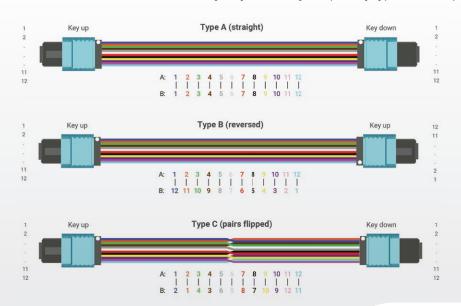


THREE ESSENTIAL MPO TESTS

Polarity-type validation

During installation, MPO connectors must be properly aligned and mated—not as simple as it sounds. Ensuring accurate polarity for MPO fiber array cables is a big deal and can be complicated to manage due to multiple polarity schemes available for these connectors and polarity flipping during connecting and installation. Polarity validation is proving especially critical with the new MPO connectors that enable polarity reconfiguration in the field.

According to TIA-568-C, three different polarity types, corresponding to different cable structures, are used with MPO ribbon cables. The ConnectorMax MPO Link Test Solution is an easy way to identify the polarity type of links up to 5 km long.





Continuity confirmation

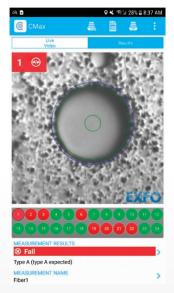
Confirming the continuity of a link ensures that there is no break and that light travels properly all the way to the end of the link under test. It's a quick validation test that, when done at time of installation, can save a lot of time in potential troubleshooting later.

Connector inspection

With contaminated connectors being the number one cause of network failure, connector inspection is a priority. Bad connectors are the main cause of loss for short links up to 5 km and the impact is ever greater for MPO links where a single dirty or damaged connector can affect as many as 12 or 24 fibers.

The ConnectorMax Fiber Inspection Probe (FIP-435B) performs automated pass/fail connector endface analysis against standards (IEC, IPC or custom). It provides a fast and easy process to detect, center, focus, capture, analyze and save results automatically, while removing any risk of false positives or misinterpretation of results. This wireless solution uses a smart device, eliminating the need to carry a platform, and the LED indicator quickly communicates results for screenless, single-handed operation. All models are compatible with a multifiber inspection tip designed for easy access to recessed connectors in dense panels.







AUTOMATIC PASS/FAIL ANALYSIS WITH ConnectorMax ANALYSIS SOFTWARE

Fully automated solution

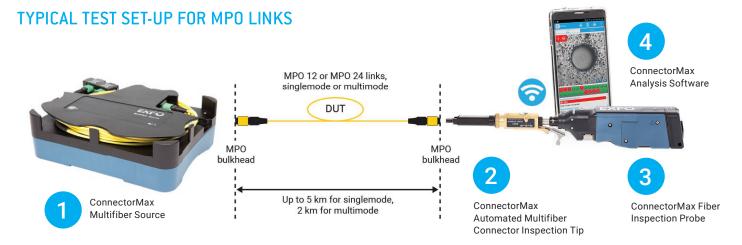
- > Easy to operate, simply hit the start button and it's powered up and ready to begin.
- > Fully automated, the ConnectorMax Fiber Inspection Probe with the MPO tip is used as a detector on the other end.
- All results are integrated in the same ConnectorMax Analysis Software application with clear pass/fail status and reports.
- No training required—the test sequence is exactly the same as the current FIP MPO.

CABLE STOWING SYSTEM

The ConnectorMax Multifiber Source has a cable stowing system and includes a launch cable for:

- Improved longevity: preserves the MPO connector on the source for a longer period of time
- > Multi-functional design, by changing the cable you can go from:
 - > APC to UPC
 - > Male (pinned) to female (unpinned)
 - > With the MFS-24 model, you can use a Y cable to test MPO 12
 - > Singlemode to multimode







SPECIFICATIONS: ConnectorMax MULTIFIBER SOURCE

For technical details concerning the ConnectorMax Fiber Inspection Probe (FIP-435B), consult its spec sheet on our web site.

GENERAL SPECIFICATIONS	
Size (H x W x D)	155 mm x 200 mm x 60 mm (6 ½ in x 7 ½ in x 2 ½ in)
Weight	1.2 kg (2.65 lb)
Temperature operating storage	−10 °C to 50 °C (14 °F to 122 °F) −40 °C to 70 °C (−40 °F to 158 °F)
Relative humidity	0 % to 95 % non-condensing
Autonomy	16 h
Distance range (typical) ^a singlemode multimode	5 km (3.10 mi) 2 km (1.24 mi)

Note

a. Depending on fiber attenuation and connector loss

ACCESSORIES (INCLUDED)		
Quick reference guide (hard copy)		
GP-2269	USB-A to USB-C cable	
GP-2227	USB AC adapter/charger	
GP-3142	Rechargeable battery	
GP-10-108	Soft carrying case	
GP-10-086	Rigid carrying case (available at an extra cost)	
GP-2176	Hook (available at an extra cost)	





ORDERING INFORMATION

ConnectorMax MPO Link Test Solution

TK-MFS-XX-XX-FIP-435B-XX-MPO-XX

Source model MFS-12 = Covering MPO 12
MFS-24 = Covering MPO 12 and MPO 24

Test jumper

For EXFO model MFS-12 MPO 12 testing

TJ-B92M-12-92F-1.8m = Singlemode, output connector: APC female (unpinned)
TJ-B92M-12-92M-1.8m = Singlemode, output connector: APC male (pinned)
TJ-C92M-12-94F-1.8m = Multimode, output connector: UPC female (unpinned)
TJ-C92M-12-94M-1.8m = Multimode, output connector: UPC male (pinned)

For EXFO model MFS-24 MPO 24 testing

TJ-B92M-24-92F-1.8m = Singlemode, output connector: APC female (unpinned)
TJ-B92M-24-92M-1.8m = Singlemode, output connector: APC male (pinned)
TJ-C92M-24-94F-1.8m = Multimode, output connector: UPC female (unpinned)
TJ-C92M-24-94M-1.8m = Multimode, output connector: UPC male (pinned)

Y test jumpers

MPO 12 testing, one side female (unpinned) and one side male (pinned)

TJ-B92M-24-Y92F92M = Singlemode TJ-C92M-24-Y94F94M = Multimode

Example: TK-MFS-12-TJ-B-92M-12-92F-1.8m-FIP-435B-APC-MPO-APC

Automated multifiber tips for the ConnectorMax Fiber Inspection Probe

UPC for MPO UPC connectors FIPT-400-NZ-MPO (MPO UPC nozzle) FIPT-400-MPO-BLK (MPO bulkhead adapter)

APC for MPO APC connectors FIPT-400-NZ-MPO-APC (MPO APC nozzle) FIPT-400-MPO-BLK (MPO bulkhead adapter)

K for MPO UPC and APC connectors FIPT-400-NZ-MPO (MPO UPC nozzle) FIPT-400-NZ-MPO-APC (MPO APC nozzle) FIPT-400-MPO-BLK (MPO bulkhead adapter)

Single fiber tips for the ConnectorMax Fiber Inspection Probe

UPC = FIPT-400-FC-SC (FC-SC bulkhead tip)
FIPT-400-U25M (Universal patchcord tip, 2.5 mm ferrule)

APC = FIPT-400-SC-APC (SC APC tip for bulkhead adapter)
FIPT-400-U25MA (Universal patchcord tip, 2.5 mm ferrules)

ORDERING INFORMATION

ConnectorMax Multifiber Source only (for customers that already have a FIP-435B and an MPO tip)

MFS-XX-XX

Source model

MFS-12 = Covering MPO 12

MFS-24 = Covering MPO 12 and MPO 24

Test jumper

For EXFO model MFS-12

MPO 12 testing

TJ-B92M-12-92F-1.8m = Singlemode, output connector: APC female (unpinned)
TJ-B92M-12-92M-1.8m = Singlemode, output connector: APC male (pinned)
TJ-C92M-12-94F-1.8m = Multimode, output connector: UPC female (unpinned)
TJ-C92M-12-94M-1.8m = Multimode, output connector: UPC male (pinned)

For EXFO model MFS-24

MPO 24 testing

TJ-B92M-24-92F-1.8m = Singlemode, output connector: APC female (unpinned)
TJ-B92M-24-92M-1.8m = Singlemode, output connector: APC male (pinned)
TJ-C92M-24-94F-1.8m = Multimode, output connector: UPC female (unpinned)
TJ-C92M-24-94M-1.8m = Multimode, output connector: UPC male (pinned)

Y test jumpers

MPO 12 testing, one side female (unpinned) and one side male (pinned)

TJ-B92M-24-Y92F92M = Singlemode TJ-C92M-24-Y94F94M = Multimode

Example: MFS-12-TJ-B92M-12-92F-1.8m

Provided by: Mega Hertz 1-800-883-8839 info@go2mhz.com www.go2mhz.com

EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive.

https://www.go2mhz.com/product/connector-inspection-solution/

In case of discrepancy, the web version takes precedence over any printed literature.

