FlowScout® MPO OLTS Test Set

Features

- Industry's first native 16-fiber Tier 1 OLTS tester
- Single test set for multi-fiber and duplex fiber testing
- Extremely fast and accurate pass/fail analysis
- Certification to industry standards and custom test limits
- Large color touchscreen with icon-driven user interface
- Single reporting platform - AFL's FlexReporter™ Test Results Manager

Applications

- Tier I Certification of Hyperscale data centers
- Enterprise LAN and data center fiber networks
- Multi-tenant data centers

AFL's FlowScout MPO OLTS is the industry's first true 16-fiber Tier I OLTS tester that supports testing of all multi-fiber AND duplex connectors, enabling much faster test time.

Extremely fast testing: The FlowScout MPO OLTS test set provides significant time savings cutting testing phase in half. It streamlines the workflow with fewer steps and enables 16-fiber testing in just 6 seconds per port in a single pass.

Highly accurate results and simple operation: The test set design is based on a precise and extremely accurate testing technology to ensure correct verification and validation of links. A simple to navigate icon-based user interface allows technicians to quickly set-up, test, validate, and document fiber networks. The FlowScout MPO OLTS measures and automatically evaluates pass/fail loss against industry or user-set limits. The large color touchscreen displays detected power levels with color-coded pass/fail indications.

All-in-One solution: The FlowScout MPO OLTS is a pair of hand-held testers designed to support native multi-fiber as well as duplex connector testing using a single test set. Utilizing the integrated duplex tester, it offers the same workflow for testing duplex links. No need for a separate equipment or learning new workflow for duplex connector testing. One tester operates as an optical light source and the matching tester operates as an optical power meter, offering the same workflow for testing native multi-fiber as well as duplex connections.

Single reporting platform for multi-fiber and duplex documentation: Measured pass/fail limits and status may be stored in the internal memory for download via Bluetooth or USB. Using AFL's free FlexApp on iOS or Android mobile device, test results may be wirelessly transferred to AFL's FlexReporter™ cloud for subsequent analysis, editing, and reports generation with FlexReports PC software.

AFLglobal.com
1 (800) 235-3423

FlowScout® MPO OLTS Test Set

Product Highlights

Effortless Operation

Hand-held Tester

Comprehensive Reporting

USB Power Port / Software Upgrades

True 16-fiber Tier I OLTS tester
Industry's first – Supports testing of all multi-fiber AND duplex connectors, enabling much faster test time!

Fast and accurate pass/fail analysis
Designed on a precise and extremely accurate testing technology to ensure highly accurate verification and validation of fiber links

Significantly reduced test time
Simplified workflow with fewer steps enables 16-fiber testing in just 6 seconds per port in a single pass

All-in-one solution
A single test set and a single reporting platform for native multi-fiber as well as duplex connector testing
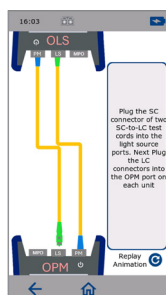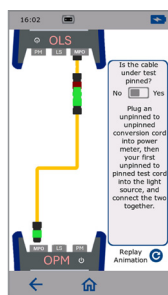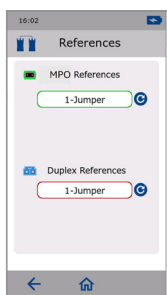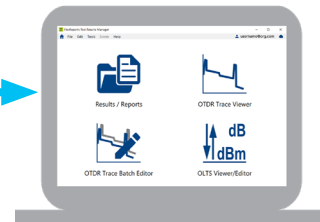
User Interface Highlights
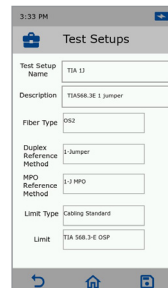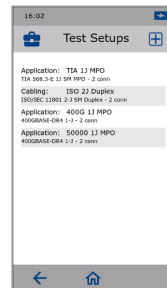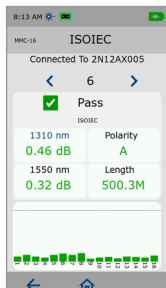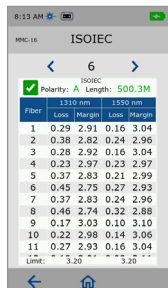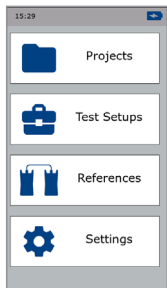
Simplified workflow with fewer steps

Custom Test Setups

MPO and Duplex Jumpers Referencing

Test Results Transfer to FlexReports PC Software

AFLglobal.com
1 (800) 235-3423

2

FlowScout® MPO OLTS Test Set

Specifications [a,b]

Optical		
Power Meter	**MPO Power Meter**	**Duplex Power Meter**
Optical Interface	Shuttered MPO-16 pinned	Interchangeable connector adapter (LC standard)
Detector Type	InGaAs	InGaAs
Calibrated Wavelengths	1310 nm, 1550 nm	1310 nm, 1550 nm
Power Measurement Range	-50 to +3 dBm	-60 to +3 dBm
Accuracy	±5% @ -10 dBm	± 5% @ -10 dBm
Linearity	±0.15 dB	± 0.15 dB
Measurement Units	dB, dBm	dB, dBm
Display Resolution	0.01 dB	0.01 dB
Storage Capacity	10,000 results	10,000 results
Length Measurement Range	Up to 25 km under certain conditions	Up to 25 km under certain conditions
Warm Up Time	0 minutes	0 minutes
Length Measurement Accuracy	±1 m ±1% of length	±1 m ±1% of length
Calibration Period	3 years	3 years
Light Source	**MPO Light Source**	**Duplex Light Source**
Optical Interface	Shuttered MPO-16 pinned	Interchangeable connector adapter (SC standard)
Source Type	Laser	Laser
Safety Class	Class I	Class I
Wavelengths	1310 ±20 nm, 1550 ±20 nm	1310 ±20 nm, 1550 ± 20 nm
Spectral Width	<5 nm	<5 nm
Output Power	-9 dBm typical @ 1310 nm, -4 dBm typical @ 1550 nm	-4 dBm typical
Stability	±0.1 dB over 1 hour (after 15 minutes warm-up) ±0.15 dB over 8 hours (after 15 minutes warm-up)	±0.1 dB over 1 hour (after 15 minutes warm-up) ±0.15 dB over 8 hours (after 15 minutes warm-up)
Warm-Up time	15 minutes	15 minutes
OLTS System	**MPO OLTS System**	**Duplex OLTS System**
Test time	6 seconds (16 fibers)	2 secconds
General		
Size	22 x 11 x 5.5 cm (8.5 x 4.5 x 2.2 in)	
Weight	0.9 kg (2.0 lb)	
Screen	5" capacitive color touchscreen	
Interface	Bluetooth 5.1 BLE	
Power and Data Transfer	USB-C	
Operating Temperature	-10 °C to +50 °C, 0 to 90 % RH (non-condensing)	
Storage Temperature	-20 °C to +60 °C, 0 to 90 % RH (non-condensing)	
Power	Rechargeable Li-Ion or AC power adapter	
Battery Life	>8 hours continuous testing	

Notes:

a. All specifications valid at 23°C ±2°C unless otherwise specified.

b. Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.

c. Under reference conditions at calibrated wavelengths, -5 to +45 °C

AFL

AFLglobal.com
1 (800) 235-3423

FlowScout® MPO OLTS Test Set

Ordering Information

FlowScout MPO OLTS Kits

AFL NO.	Description
MFLT-MMC-16	FlowScout MPO OLTS Kit for Testing MMC-16 Fiber Links
MFLT-MPO-12	FlowScout MPO OLTS Kit for Testing MPO-8/-12 Fiber Links
MFLT-MPO-16	FlowScout MPO OLTS Kit for Testing MPO-16 Fiber Links

Test Cord Kits

AFL NO.	Description
MFLT-MMC-16-CBL	MMC-16 Test Cords for FlowScout MPO OLTS Kit
MFLT-MPO-12-CBL	MPO-8/-12 Test Cords for FlowScout MPO OLTS Kit
MFLT-MPO-16-CBL	MPO-16 Test Cords for FlowScout MPO OLTS Kit

Recommended Products

FOCIS Lightning2 (Multi-Fiber Connector Inspection)

- Self-contained, tether-free, hand-held inspection solution
- Auto-focus and auto-centering for fast, easy inspection
- IEC, IPC and user-defined pass/fail analysis
- FOCIS Lightning2: extremely fast multi-fiber auto-analysis for datacom and telecom inspection applications

One-Click® Cleaner MPO / MPO-16

- Ideal for Data Centers and high density optical networks
- Designed to work on MTP®/MPO multi-fiber connectors
- Cleans connectors on jumpers and in adapters

Qualifications

Category	Regulation/ Standard	Qualification
CE Marking	EU	Compliant to relevant EU Directives on health, safety, and environmental protection, and certified with CE marking
UKCA Marking	UK	Compliant to relevant UK Directives on health, safety, and environmental protection, and certified with the UKCA marking
Safety/EMC/EMI	IEC	Compliant to IEC 61010-1 for safety requirements for electrical equipment
	EN	Compliant to EN 61010-1 for safety requirements for electrical equipment
	IEC	Compliant to IEC 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 55011 for EMC requirements for industrial, scientific and medical equipment
	FCC	Compliant to code of federal regulations FCC 47 CFR 15 on unlicensed transmissions
RoHS	EU	Compliant to EU regulations Directive 2011/65/EU (RoHS 2) and Directive 2015/863 (RoHS 3)
Test Method	TIA	Compliant to TIA-568.3-E for test and measurement requirements for optical fiber cabling and components
	IEC	Compliant to IEC 11801 for test and measurement requirements for optical fiber cabling for use within premises
	EN	Compliant to EN 50173 for test and measurement requirements for optical fiber cabling for use within premises
	AS/NZS	Compliant to AS/NZS 3080 for test and measurement requirements for optical fiber cabling for use within premises
	TIA	Compliant to TIA-526-7 for test procedures for installed optical fiber cable plant
	TIA	Compliant to TIA-526-14 for test procedures for installed optical fiber cable plant
	IEC	Compliant to IEC 14763-3 for systems and methods for the inspection and testing of installed optical fiber cabling
	AS/NZS	Compliant to AS/NZS 14763.3 for systems and methods for the inspection and testing of installed optical fiber cabling
	IEC	Compliant to IEC 61280-4-1 for test procedures for installed optical fiber cable plant
	IEC	Compliant to IEC 61280-4-2 for test procedures for installed optical fiber cable plant
Generic Requirement	IEC	Compliant to IEC 61315 for requirements on calibration of fiber optic power meters

Contact Sales@AFLglobal.com to schedule a demonstration or learn how to buy.

Visit www.AFLglobal.com/Test to learn more about OPM8 optical power meters.

International Sales and Service Contact Information available at www.AFLglobal.com/Test/Contacts.