Multi-fibre Switch

The density demands of today's networks are driving more demand for multi-fibre connectivity. As the adoption of multi-fibre connectors becomes more prevalent in data centers, the ability to test these types of connections accurately and quickly has become even more critical. AFL's Multi-fibre switch enables the testing of 12-fibre cables without the need to use a breakout cable. The switch allows you to utilise a single piece of test equipment to seamlessly cycle through all of the fibres in a connector regardless of polarity without having to disconnect and reconnect your test equipment making the testing of your network more efficient, saving you both time and money.

AFL's Multi-fibre switch is compatible with your existing OTDR, OLTS and Certification equipment.

Features

- Stand-alone operation as well as pairing with other testers including OTDRs
- Converts a single port module into a multi-fibre MPO tester
- Dual wavelength, single-mode or multimode
- SC port for connection to test equipment
- 12F MPO port for connection to MPO cable under test
- LCD screen to indicate fibre under test

Applications

- OLTS, OTDR, and VFL testing
- Efficient testing from 1-12 fibre MPO links
- Bidirectional testing without moving cables
- Measure bidirectional Link loss and length with single button AutoTest
- Verify polarity of MPO cables
- Certify MPO links to latest high speed industry standards including base 8 applications

Multi-fibre Switch paired with FlexScan® OTDR

Specifications[a]

OPTICAL		
Wavelength	1310/1550 nm, SM dual-wavelength	850/1300 nm, MM dual-wavelength
Insertion Loss	2.8 dB typ. – 3.3 dB max.	1.8 dB typ. – 2.3 dB max.
Optical Return Loss (ORL)	50 dB min.	—
Fibre Length	4.4 ± 0.5 m	
Optical Length Uniformity	± 0.15 m	
GENERAL		
Power	Li-Ion battery or USB interface	
Battery Life	1000 hours continuous operation	
Weight	0.3 kg (0.66 lb)	
Dimensions	12.9 x 6.9 x 3.1 cm (5.1 x 2.7 x 1.2 in)	
Operating Temperature	-20 °C to +60 °C, 0 to 90 % RH (non-condensing)	
Storage Temperature	-20 °C to +70 °C, 0 to 90 % RH (non-condensing)	

Notes:

a. All specifications valid at 23 °C ±2 °C (73.4 °F ±3.6 °F) unless otherwise specified.

Ordering Information

PART NUMBER	DESCRIPTION
MFS-12-SM-ASC-FR	Multi-fibre Switch, 12 fibres SM, APC–SC, MPO fibre ring (non-pinned), soft case
MFS-12-SM-ASC	Multi-fibre Switch, 12 fibres SM, APC–SC, soft case
MFS-12-SM-USC	Multi-fibre Switch, 12 fibres SM, UPC–SC, soft case
MFS-12-MM-USC	Multi-fibre Switch, 12 fibres MM, UPC–SC, soft case

ROGUE MFS Certification Add-on Kits

Each ROGUE MFS (Multi-fibre Switch) Certification Add-on kit include (2) Multi-fibre Switches, (2) 6 in. USB-USB mini cables, (1) One-Click Cleaner MPO, (2) MFS carry holsters, (2) MFS kit carry cases plus test cords and mating adapters (see table below).

PART NUMBER	ADD-ON KIT	CONTAINS (EA.)			MPO-MPO MATING ADAPTERS
		12F MFS SWITCH	TEST CORDS		
			SC-SC, 0.3 M.	12F MPO-MPO, 2 M.	
RGK-MPO-SM-CERT-ADD	SM, SC/UPC-MPO/APC	(2) SM, SC/UPC-MPO/APC	(2) SM	(2) SM, type A unpinned (1) SM, type A pinned (1) SM, type A unpinned/pinned (1) SM, type B unpinned	(2) key Up / key Down
RGK-MPO-MM-CERT-ADD	MM, SC/UPC-MPO/UPC	(2) MM, SC/UPC-MPO/UPC	(2) MM	(2) OM4, type A unpinned (1) OM4, type A pinned (1) OM4, type A unpinned/pinned (1) OM4, type B unpinned	(2) key Up / key Down