



TEST & INSPECTION

OTDRs | Certification Test Kits | Inspection
OPM | OLS | Cleaning

Table of Contents

Test Workflow and Data Management Solution	ROGUE® aeRos® Test Suite	6
	ROGUE Hardware and Accessories	6
	ROGUE TURBO OLTS/CERT Modules	6
	ROGUE TURBO OLTS/CERT Module Ordering Information	6
	ROGUE Certification Kits	7
	ROGUE Certification Kit Ordering Information	7
	ROGUE Combo Kits	8
	ROGUE MFS Certification Add-on Kits	9
	ROGUE OLTS Kits	9
	ROGUE OTDR Modules	9
	ROGUE Basic OTDR Kits	9
	ROGUE OTDR Kit Ordering Information	10
	ROGUE OTDR Module Ordering Information	10
	ROGUE MFS Multi-fibre Switch OTDR Add-on Kit	11
	ROGUE Module Connector Adapters	11
	OTDR Fibre Rings and Network Simulators	11
	Mobile Apps for ROGUE OLTS/Certification and LinkMap OTDR	12
	ROGUE RTG "Ready to Go" Tablets	12
Multi-fibre Switch	12	
aeRos® Software Licensing	12	
OTDRs at a Glance (Networks, Applications, Performance)	OTDR Selection Guide	14
Hand-held OTDRs/Multifunction Testers	FlexScan Pocket-sized OTDR with SmartAuto™ and LinkMap®	16
	FlexScan Accessories	17
	FlexScan Connector Adapters	17
	FlexScan® FS300 Quad and Penta OTDR with SmartAuto® and LinkMap®	19
	FlexScan® FS300 Quad and Penta OTDR Kit Configurations	19
Compact OTDRs	M710 OTDR — with LinkMap®	20
	M710 OTDR Accessories	21
	M710 OTDR Connector Adapters	21
OTDR Fibre Rings and Network Simulators	OTDR Launch and Receive/Tail Cords - Fibre Rings	22
	Custom-Designed Network Simulators	22
	FTTx PON Simulator Kits	22
DWDM and CWDM Testers	WDM900 Lightwave Test Set	23
Multi-Fibre Test Solutions	MFIS Multi-Fibre Identification System	25
	MFIS Accessories	25
	TJ-03 Temporary Splice	26
	MT Tracer (12-fibre VFI and Display)	26
Optical Power Meters (OPM and CSM1 Series)	OPM Accessories	27
LED and Laser Light Sources (OLS and CSS1 Series)	OLS AC Adapters	28
	Connector Adapters	28
Optical Loss Test Kits (SMLP, SLP, MLP, and CK Series)		29
Encircled Flux (EF) Compliant Sources & Test Kits	Encircled Flux (EF) Compliant Light Sources	30
	Encircled Flux (EF) Compliant Test Kits	30
	Encircled Flux (EF) Reference Grade Test Cords	31
	Encircled Flux (EF) Modal Conditioners	31

TRM® 2.0 Test Results Manager		32	
Optical Attenuator (SVA1)	SVA1 Accessories and Connector Adapters	32	
Visual Fault Identifiers	HiLite and VF12 Series	33	
	VF12 and HiLite Accessories	33	
Optical Fibre Identifiers	OFI- 200D and OFI-400 Optical Fibre Identifiers	34	
	FUJFID-31R and FUJFID-30R Optical Fibre Identifiers	34	
	FUJFID-30R Power Meter Port Adapters	34	
Fibre Optic Connector Inspection	FOCIS Flex Fibre Optic Connector Inspection System	36	
	FOCIS Flex Connector Inspection Kits	36	
	FOCIS Duel Fibre Optic Connector Inspection System	37	
	FOCIS Duel Adapter Tips	37	
	FOCIS WiFi2™ Fibre Optic Connector Inspection System	38	
	FOCIS Flex, FOCIS Duel and FOCIS WiFi2 Connector Inspection Accessories	38	
	Adapter Tips for FOCIS Flex, FOCIS WiFi PRO, DFS1	39	
Microscopes for Connectors on Patch Cords (OFS300, VS300)		42	
FOCIS Lightning Multi-Fibre Optic Connector Inspection System	FOCIS Lightning Connector Inspection Kits	43	
	FOCIS Lightning Accessories	44	
	FOCIS Lightning Adapter Tips	44	
FOCIS Flex OptiTap/OptiTip Inspection and Cleaning Solutions	FOCIS Flex OptiTip Connectors	45	
	FOCIS Flex OptiTap Connectors	45	
FTS2 Fibre Optic Talk Sets (Last Time Buy)	FTS Accessories	46	
	FTS2 Connector Adapters	46	
Adapter Caps	Adapter Caps for OPM Ports, OFS300-200, and VS300	47	
	Adapter Caps for OFS300-200 and VS300 Only	47	
Accessories	Encircled Flux (EF) Modal Conditioners	47	
	EF Compliant Multimode Test Leads – Tail (50/125 µm - 2 meters)	48	
	Singlemode Test Leads – Launch (9/125 µm - 2 meters)	48	
	Singlemode Test Leads – Tail (9/125 µm - 2 meters)	48	
	Bare Fibre Test Accessories	48	
	Mating Adapters (Bulkheads)	48	
	Return Loss Test Sets Accessories	48	
	Link Loss Test Lead Kits	49	
	Fixed Price Encircled Flux Test Lead Repair	49	
Cleaning Supplies	Wall/Rack Mountable Field Portable Cleaning Kits	50	
	Hard Carry Case Cleaning Kits	50	
	Field Portable Duffle Bag Cleaning Kits	51	
	Cleaning Fluids and CCT Cleaning Sticks	51	
	Cletop Cassette Cleaners	52	
	Cletop (ACT) Cleaning Sticks	52	
	OPTIPOP-R Cassette Cleaners	52	
	One-Click Cleaners	53	
	Cleaning Accessories for Test Kits	53	
	Optical Grade Cleaning Wipes	54	
	Other Cleaning Supplies	54	
	Calibration Services and Warranty		55

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Release Highlights

NEW



Bluetooth

FAFL FOCIS Flex

Available on Google play

Available on the App Store

Smart Device Apps

FOCIS Lightning Multi-Fibre Optic Connector Inspection System

FOCIS Lightning is an ultrafast MPO/MTP® connector inspection system with two high resolution image sensors to allow the instantaneous assessment of the full multi-fibre end-face surface conditions, including a partial view of the connector pins or holes.



NEW



FlexScan® FS300 Pocket-sized Quad OTDR with SmartAuto® and LinkMap®

Installing or verifying both multimode and singlemode fibres? New FlexScan FS300 Quad OTDR now offers FlexScan SmartAuto plus LinkMap convenience and performance for multimode and singlemode, including FTTH PON! FS300 Quad also adds larger 5", 800x480 colour gesture-recognition touchscreen display, Print to PDF, and WiFi results upload. A perfect solution for datacenter, LAN, POLAN, FTTH PON and point-to-point OTDR test applications.

Test Workflow and Data Management Solution



Cloud-based Workflow Management Solution



ROGUE iB1 Base



ROGUE cB1 Base



ROGUE OLTS Module



cB1 and iB1 Base with Module



ROGUE cB1 Base Kickstand

ROGUE® | aeRos® Test Suite

The **ROGUE** modular test platform is the first device Powered by aeRos; designed around the way you work allowing you to perform a broad range of test activities through customisation and flexibility. And because ROGUE works seamlessly with aeRos, you can get your network up and running faster, reducing both CAPEX and OPEX.

- Modular platform — flexibility with multiple module types — OLTS/CERT Quad, Dual SM, Dual MM; Quad OTDR, SM OTDR
- Android App – easy to use Android user interface resulting in minimal training for the technician
- Integrated Source, Power Meter, VFL
- Integrated with FOCIS Flex Inspection Probe
- Integrated with Multi-Fibre Switch (MFS) - test up to 12 fibres bidirectionally for insertion loss & length at Dual wavelengths with the push of ONE BUTTON

aeRos - The heart of our open, holistic workflow management system - more than just a set of tools; it is the cloud-based solution that integrates every aspect of your testing process. aeRos® lets you set up jobs before a truck ever rolls, monitor data and interact with technicians in real time, complete jobs faster, generate reports more efficiently, and get to revenue sooner.

- Cloud-based solution — works on any browser with advanced security provided by G-Suite Solution Suite
- Built from the ground up — not a cloud-based capability that was added as an after-thought
- Seamless interaction with Android™ applications — push jobs and equipment setup down to tech in the field – no more mistakes and get test results real-time — from anywhere in the world
- Run reports at the push of a button — within seconds of completing the job users can run a report even before the technician leaves the job site
- Licensing — flexible licensing supports individual users to full enterprise solution

ROGUE Hardware and Accessories

PART NUMBER	Description	Contains
RG-C01	ROGUE cB1, Compact Base	(1) ROGUE cB1 Base, (1) battery, (1) power supply, (1) adjustable carry strap
RG-B01	ROGUE iB1, Intelligent Base	(1) ROGUE iB1 Base, (1) battery, (1) power supply, (1) adjustable carry strap
RGA-STND-01	ROGUE cB1 Base Kickstand	(1) Kickstand
RGA-CASE-01	ROGUE Cert Kit Carry Case	(1) Case
5400-00-0200	ORL Referencing Mandrel	(1) Mandrel
RGA-STRAP-01	ROGUE Adjustable Carry Strap	(1) Strap
4050-00-0132PR	AC Adapter – ROGUE cB1	(1) AC Adapter
4050-00-0918PR	AC Adapter – ROGUE iB1	(1) AC Adapter

ROGUE TURBO OLTS/CERT Modules

PART NUMBER	Auto Test Wavelengths (nm)				Contains (ea.)					
					ROGUE TURBO OLTS/CERT Modules			Test Port Adapters		
	850	1300	1310	1550	Quad	Dual Engine		OLS	OPM	
				MM/SM	MM	SM	SC	SC	LC	
RG-1100-Q01	◆	◆	◆	◆	1			2	1	1
RG-1100-M01-D	◆	◆				1		2	1	1
RG-1100-S01-D			◆	◆			1	2	1	1

ROGUE TURBO OLTS/CERT Module Ordering Information

RG-1100-[MOD]-[C] where:

[MOD]	Module Type
Q01	Quad SM/MM OLTS/CERT with VFL
M01-D	Dual Engine Singlemode OLTS/CERT with VFL
S01-D	Dual Engine Multi-mode OLTS/CERT with VFL

[C]	Singlemode Connector Type
U	UPC
A	APC



ROGUE Carry Case

ROGUE OLTS Certification Kits

- Each ROGUE Certification kit includes two (2) of each: ROGUE cB1 or iB1 unit, adjustable carry strap, power supply, carry case, kickstand.
- Each ROGUE Certification kit also includes kit-specific ROGUE Modules and Certification license(s) (see table below).
- All ROGUE Tier 1 Certification kits include (1) One-Click Cleaner SC/2.5 mm, (1) One-Click Cleaner LC/1.25 mm, switchable test port adapters and test accessories (see table below).

PART NUMBER	ROGUE Certification Kit	Contains (ea.)											
		ROGUE Base		ROGUE Modules			Turbo License	Reference Test Cords		Mating	Adapters		
		cB1	iB1	Quad SM/MM	Dual Engine			SM	50 µm MM		Test Port		
					SM	MM	SC			SC	SC	LC	
RGK-CERT01	Quad SM/MM	2		2			2	2	2	2	2	2	2
RGK-CERT02	Dual Engine SM & MM	2			2	2	4	4	4	4	8	4	4
RGK-CERT03	Dual Engine SM	2			2		2	4		2	4	2	2
RGK-CERT04	Dual Engine MM	2				2	2		4	2	2	2	2
RGK-CERT01B1	Quad SM/MM		2	2			2	2	2	2	2	2	2
RGK-CERT02B1	Dual Engine SM & MM		2		2	2	4	4	4	4	8	4	4
RGK-CERT03B1	Dual Engine SM		2		2		2	4		2	4	2	2
RGK-CERT04B1	Dual Engine MM		2			2	2		4	2	2	2	2

ROGUE Certification Kit Ordering Information

RGK-CERT[KIT]-[C] where:

[KIT]	Certification Kit Type/Contents
01	cB1 Base (2), Quad SM/MM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
02	cB1 Base (2), Dual Engine SM OLTS/CERT Module (2), Dual Engine MM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
03	cB1 Base (2), Dual Engine SM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
04	cB1 Base (2), Dual Engine MM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
01B1	iB1 Base (2), Quad SM/MM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
02B1	iB1 Base (2), Dual Engine SM OLTS/CERT Module (2), Dual Engine MM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
03B1	iB1 Base (2), Dual Engine SM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner
04B1	iB1 Base (2), Dual Engine MM OLTS/CERT Module (2), Ref Cords, Adapters, One-Click Cleaner

[C]	Singlemode Connector Type
U	UPC
A	APC

ROGUE Combo Kits

- Each Combo kit (PRO kits and Complete kits) includes two (2) of each: ROGUE cB1 or iB1 Base, AC charger, battery, carry strap, Quad SM/MM Certification module with applicable reference cables, FOCIS Flex Inspection Probe and SC/LC tips.
- Each Combo kit (PRO kits and Complete kits) includes one (1) aeRos PRO Lifetime license and one (1) Basic Cleaning kit.
- Each Combo Complete kit includes one (1) Quad SM/MM OTDR module.
- All parts for each Combo Kit (PRO kits and Complete kits) are contained in one rugged, easy to carry backpack.

AFL NO.	Combo Kit	Contains (ea.)															
		cB1 Base	Android Tablet	iB1 Base	Quad SM/MM CERT Module	Quad SM/MM OTDR Module	SM Reference Cords	MM Reference Cords	SC Mating Adapters	Basic Cleaning Kit	aeRos PRO Lifetime license	FOCIS Flex Probe	2.5 mm FOCIS Flex Tips	1.25 mm FOCIS Flex Tips	150 m SM FR SC-SC	150 m SM FR SC-LC	Carry Backpack
RGK-CERT01-PRO	cB1 PRO kit	2	2		2	No	2	2	2	1	1	2	◆	◆	No	No	1
RGK-CERT01B1-PRO	iB1 PRO kit			2	2	No	2	2	2	1	1	2	◆	◆	No	No	1
RGK-CERT01-CMP	cB1 Complete Kit	2	2		2	1	2	2	2	1	1	2	◆	◆	1	1	1
RGK-CERT01B1-CMP	iB1 Complete Kit			2	2	1	2	2	2	1	1	2	◆	◆	1	1	1



MFS in Carry Holster

ROGUE Combo Kit Order Entry

RGK-CERT[KIT]-[C] where:

[KIT]	Certification Kit Type/Contents
01-PRO	cB1 Base (2), quad SM/MM OLTS/CERT module (2), FOCIS Flex probe (2), Android tablet (2), test and cleaning accessories
01B1-PRO	iB1 Base (2), quad SM/MM OLTS/CERT module (2), FOCIS Flex probe (2), test and cleaning accessories
01-CMP	cB1 Base (2), quad SM/MM OLTS/CERT module (2), quad SM/MM OTDR module (2), FOCIS Flex probe (2), Android tablet (2), test and cleaning accessories
01B1-CMP	iB1 Base (2), quad SM/MM OLTS/CERT module (2), quad SM/MM OTDR module (2), FOCIS Flex probe (2), test and cleaning accessories

[C]	Singlemode Connector Type
U	UPC
A	APC



MFS in Carry Holster

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, (2) key Up / key Down MPO-MPO Mating Adapters, (2) MFS carry holsters, (1) One-Click Cleaner MPO, (2) MFS kit carry cases plus test cords and mating adapters (see table below).

PART NUMBER	Add-On Kit	Contains (ea.)		
		12F MFS Switch	Reference 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 (2) SM, type A pinned/unpinned (1) SM, type B unpinned
RGK-MPO-MM-CERT-ADD	MM, SC/UPC-MPO/UPC	(2) MM, SC/UPC-MPO/UPC	(2) MM	(2) OM4, type A unpinned (2) OM4, type A pinned/unpinned (1) OM4, type B unpinned

ROGUE OLTS Kits

- Each ROGUE OLTS kit includes one (1) of each: ROGUE cB1 or iB1 unit, battery, adjustable carry strap, power supply, carry case, kickstand.
- Each ROGUE OLTS kit also includes one (1) kit-specific ROGUE Module.
- All ROGUE OLTS kits include (1) One-Click Cleaner SC/2.5 mm and switchable test port adapters and test accessories (see table below).

PART NUMBER	ROGUE OLTS Kit	Contains (ea.)						
		ROGUE Base		ROGUE Modules	Reference Cords	Adapters		
		cB1	iB1	Dual Engine, SM	SM	Mating	OLS Port	OPM Port
RGK-OLTS03	Dual Engine SM/UPC	1		1	2	SC	SC	OPM
RGK-OLTS03B1	Dual Engine SM/UPC		1	1	2	SC	SC	OPM

ROGUE OTDR Modules

Dual singlemode (1310/1550 nm) and Quad (1310/1550 nm SM & 850/1300 nm MM) modules are available for use with ROGUE cB1 and iB1 platforms. Both modules include Visual Fault Locator (VFL) and are available with optional Optical Source (OLS) and Optical Power Meter (OPM). OTDR/OLS ports are equipped with user-replaceable SC adapters. OPM and VFL ports are equipped with replaceable 2.5 mm universal adapters.



ROGUE OTDR Module

PART NUMBER	MM Dynamic Range		SM Dynamic Range		OLS	OPM	VFL
	850 nm	1300 nm	1310 nm	1550 nm			
RG-2100-Q01	29 dB	29 dB	37 dB	36 dB			◆
RG-2100-Q02	29 dB	29 dB	37 dB	36 dB	◆	◆	◆
RG-2100-S01			37 dB	36 dB			◆
RG-2100-S02			37 dB	36 dB	◆	◆	◆

ROGUE Basic OTDR Kits

Each ROGUE Basic OTDR Kit includes:

- (1) of either cB1 or iB1 unit with AC charger, battery, carry strap, carry case
- (1) of either Quad or Dual Singlemode OTDR module with Source, Power Meter and VFL
- 2.5 and 1.25 mm One-click Cleaners, test port adapters, plus fibre ring(s):



iB1 Base with Module

PART NUMBER	ROGUE Module	Module Type	ROGUE Platform	Fibre Rings (Specify Connector)	
				150 m SMF	150 m MMF
RGK-OTDR-BQ02	RG-2100-Q02	Quad OTDR, OLS/OPM	iB1 Base	◆	◆
RGK-OTDR-CQ02	RG-2100-Q02	Quad OTDR, OLS/OPM	cB1 Base	◆	◆
RGK-OTDR-BS02	RG-2100-S02	Dual SM OTDR, OLS/OPM	iB1 Base	◆	
RGK-OTDR-CS02	RG-2100-S02	Dual SM OTDR, OLS/OPM	cB1 Base	◆	

ROGUE OTDR Kit Ordering Information

RGK-OTDR-[KIT]-[C]-[SMFR]-[MMFR] where:

[KIT]	OTDR Kit Type/Contents
BQ02	iB1 Base, Quad OTDR module with VFL and OLS/OPM, fibre rings, carry case
CQ02	cB1 Base, Quad OTDR module with VFL and OLS/OPM, fibre rings, carry case
BS02	iB1 Base, Dual Singlemode OTDR module with VFL and OLS/OPM, fibre ring, case
CS02	cB1 Base, Dual Singlemode OTDR module with VFL and OLS/OPM, fibre ring, carry case

[C]	Singlemode Connector Type
U	UPC
A	APC

[SMFR]		150 m SM Fibre Ring Configuration
A1	SC/SC	FR1-SM-150-SC-SC
B2	SC/FC	FR1-SM-150-SC-FC
C3	SC/LC	FR1-SM-150-SC-LC
D4	SC/ST	FR1-SM-150-SC-ST
E5	SC/ASC	FR1-SM-150-SC-ASC
F6	SC/AFC	FR1-SM-150-SC-AFC
G7	SC/ALC	FR1-SM-150-SC-ALC
H8	LC/LC	FR1-SM-150-LC-LC
I9	LC/ASC	FR1-SM-150-LC-ASC
J10	LC/ALC	FR1-SM-150-LC-ALC
K11	ASC/FC	FR1-SM-150-ASC-FC
L12	ASC/ST	FR1-SM-150-ASC-ST
M13	ASC/ASC	FR1-SM-150-ASC-ASC
N14	ASC/AFC	FR1-SM-150-ASC-AFC
O15	ASC/ALC	FR1-SM-150-ASC-ALC
P16	ALC/ALC	FR1-SM-150-ALC-ALC
Q17	FC/FC	FR1-SM-150-FC-FC
R18	FC/ST	FR1-SM-150-FC-ST
S19	FC/LC	FR1-SM-150-FC-LC
T20	FC/AFC	FR1-SM-150-FC-AFC
U21	AFC/AFC	FR1-SM-150-AFC-AFC

[MMFR]		150 m MM Fibre Ring Configuration
	Blank	None for S01 or S02 Kits
D5	50 SC/ST	FR1-M5-150-SC-ST
A5	50 SC/SC	FR1-M5-150-SC-SC
W5	50 ST/ST	FR1-M5-150-ST-ST
W5	50 ST/LC	FR1-M5-150-ST-LC
C5	50 SC/LC	FR1-M5-150-SC-LC
D6	62.5 SC/ST	FR1-M6-150-SC-ST
A6	62.5 SC/SC	FR1-M6-150-SC-SC
V6	62.5 ST/ST	FR1-M6-150-ST-ST
W6	62.5 ST/LC	FR1-M6-150-ST-LC
C6	62.5 SC/LC	FR1-M6-150-SC-LC

ROGUE OTDR Module Ordering Information

RG-2200-[MOD]-[C] where:

[MOD]	Module Type
Q01	Quad OTDR with VFL (850/1300/1310/1550)
Q02	Quad OTDR with VFL and OLS/OPM (850/1300/1310/1550)
S01	Dual Singlemode OTDR with VFL (1310/1550)
S02	Dual Singlemode OTDR with VFL and OLS/OPM (1310/1550)

[C]	Singlemode Connector Type
U	UPC
A	APC

ROGUE MFS Multi-fibre Switch OTDR Add-on Kit

A singlemode Multi-fibre Switch can be used to accelerate OTDR testing of MPO-connectorised, multi-fibre cables. The ROGUE MFS OTDR Add-on kit includes (1) singlemode fibre switch with MPO-APC connector, (1) SC-SC jumper to connect a ROGUE OTDR to the switch, and (1) MPO-APC fibre ring.

PART NUMBER	Contains (ea.)		
	12F MFS Switch	Test Cord	MPO Fibre Ring
RGK-MPO-SM-OTDR-ADD	(1) MFS-12-SM-ASC SM, SC/UPC-MPO/APC	(1) SM, SC-SC, 0.3 m	(1) 12F, MPO-APC to MPO APC unpinned, 30 m



Fibre Ring



NS Bench Top Model



NSR Rack-mountable Model

ROGUE Module Connector Adapters

Note: ROGUE modules are shipped with SC adapter installed on OTDR/OLS ports and universal 2.5 mm adapters installed on OPM and VFL ports.

PART NUMBER	Description
2900-50-0002MR	FC adapter for OTDR/OLS port
2900-50-0003MR	SC adapter for OTDR/OLS port
2900-50-0004MR	ST adapter for OTDR/OLS port
2900-50-0006MR	LC adapter for OTDR/OLS port
2900-52-0001MR	FC adapter for OPM port
2900-52-0002MR	SC adapter for OPM port
2900-52-0003MR	ST adapter for OPM port
2900-52-0004MR	LC adapter for OPM port
2900-52-0005MR	2.5 mm Universal adapter for OPM port
2900-52-0006MR	1.25 mm Universal adapter for OPM port
2900-50-0007MR	2.5 mm Universal adapter for VFL port
2900-50-0010MR	1.25 mm Universal adapter for VFL port

OTDR Fibre Rings and Network Simulators

PART NUMBER	Description
Fibre Rings	Coiled lengths of multimode or singlemode fibre packaged in compact rings for use as OTDR test cords
Network Simulators	Custom-designed bench top or rack mountable boxes intended to duplicate installed fibre optic networks

NEW



Mobile Apps for ROGUE OLTS/Certification and LinkMap OTDR

Android Apps are available as free downloads from Google Play to configure, control and access results from ROGUE OLTS and OTDR modules. ROGUE OLTS and OTDR Modules and Kits include a license for basic OLTS or OTDR functionality. Optional OLTS Certification license is included with ROGUE Certification Kits. OLTS and OTDR Apps support aeRos cloud-based workflow management.

Mobile App	Android Google Play	iOS App Store
ROGUE TURBO OLTS/Cert	Available	Coming Soon
ROGUE LinkMap OTDR	Available	Coming Soon

ROGUE RTG "Ready to Go" Tablets

AFL offers Android Tablets preloaded and configured for use with the ROGUE | aeRos Test Suite.

PART NUMBER	Description
RGA-7TBLT-01	Preloaded with AFL ROGUE Apps. 90 days Limited Warranty
RGA-7TBLT-01-RTG	Preloaded with AFL ROGUE Apps and user guides, paired and labeled with ROGUE cB1, preconfigured with aeRos account. 1 year Limited Warranty



MFS- Multi-fibre Switch

Multi-fibre Switch

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.

Model	Wavelength	Insertion Loss	Optical Return Loss (ORL)	Power
MFS	1310/1550 nm, SM dual-wavelength	2.8 dB typ. – 3.3 dB max.	50 dB	Li-Ion or USB
	850/1300 nm, MM dual-wavelength	1.8 dB typ. – 2.3 dB max.	50 dB	Li-Ion or USB



ROGUE and MFS

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

aeRos® Software Licensing

aeRos solution is available in two options: aeRos BASIC account and aeRos PRO account.

aeRos® BASIC account — Data Management solution that allows users to save their test data in the aeRos Cloud and then retrieve it from anywhere at any time with a standard Internet browser. **aeRos BASIC is free to all owners of AFL's ROGUE modular test equipment.**

aeRos® PRO account — Workflow Management solution that allows users to manage their entire testing workflow and enables seamless and efficient communications and data management. aeRos PRO is available in annual and lifetime License configurations.

PART NUMBER	Description	Contains
aeRos-PRO-YRL	aeRos PRO account	(1) Admin or Project Manager account, 1 year. Includes 10 Basic users.
aeRos-PRO-LFT	aeRos PRO account	(1) Admin or Project Manager account lifetime subscription. Includes 10 Basic users.



OTDRS & FIBRE CHARACTERISATION

OTDRs at a Glance (Networks, Applications, Performance)

OTDR Selection Guide

NEW



FlexScan® FS300



FlexScan® FS200



M710

Model	Point-to-Point Networks/Fibre Type					FTTx PON		OTDR Performance						Integrated Peripherals				Inspection	
	MMF/SMF		SMF			Dark	Live	Wavelengths (nm)	Dynamic Range (dB)	Dead zone EDZ/ADZ (m)	SmartAuto	LinkMap®	FlexPress	MPO Switch Control	OLS	OPM	VFL		TRM 2.0/3.0
	Data Centre	LAN	Core	Metro	Access														
FlexScan FS300																			
FS300-325	◆	◆	◆	◆	◆	◆		850/1300/1310/1550	29/29/37/36	0.8/3.5	◆	◆			◆	◆	◆	◆	FOCIS
FlexScan FS200																			
FS200-50B				◆	◆			1550	28	1.0/6.0	◆	◆		◆			◆	◆	FOCIS
FS200-60				◆	◆	◆	◆	1650	37	0.8/3.6	◆	◆		◆			◆	◆	FOCIS
FS200-100				◆	◆	◆		1310/1550	32/30	0.8/3.6	◆	◆		◆	◆	◆	◆	◆	FOCIS
FS200-300			◆	◆	◆	◆		1310/1550	37/36	0.8/3.5	◆	◆	◆	◆	◆	◆	◆	◆	FOCIS
FS200-304			◆	◆	◆	◆	◆	1310/1550/1650	37/36/37	0.8/3.5	◆	◆	◆	◆	◆	◆	◆	◆	FOCIS
M710 OTDR																			
M710-20			◆	◆	◆			1310/1550	41/39	0.8/4.0		◆				◆	◆	◆	DFS1
M710-21			◆	◆	◆			1310/1550/1625	41/39/39	0.8/4.0		◆				◆	◆	◆	DFS1
M710-40			◆	◆	◆			1310/1550	44/42	0.8/4.0		◆				◆	◆	◆	DFS1
M710-24	◆	◆	◆	◆	◆			850/1300/1310/1550	25/24/40/38	0.8/4.0		◆				◆	◆	◆	DFS1

Introducing Flexpress™

Fast OTDR Test

**10X
FASTER
TEST SPEED**



MFS Multi-Fibre Switch

FlexScan® FS200 OTDR with SmartAuto®, Flexpress™ and LinkMap®

Faster testing equals significant cost savings!

Full dual-wavelength OTDR tests in <5 seconds

10 x faster test speed than conventional OTDRs

Integrated 12-Fibre MPO Switch control to further reduce multi-fibre test time

Hand-held OTDRs/Multifunction Testers

FlexScan FS 200 OTDR with SmartAuto®, Flexpress™ and LinkMap®



FLEXSCAN OTDR

Combining SmartAuto™ network-optimised event detection and analysis with its intuitive LinkMap view of the tested network, AFL's new FlexScan OTDRs enable even novice technicians to quickly and easily troubleshoot or fully characterise optical fibre networks. Have dozens of Fibres to test? Reduce test time more than 10x, completing dual-wavelength OTDR tests in <5 seconds using new Flexpress fast test! For even faster testing, use FlexScan's new integrated MPO switch control to automate multi-Fibre testing.

FlexScan FS200 family offers the following models with integrated VFL, two USB ports plus optional source, power meter, Bluetooth® and WiFi communications:



FLEXSCAN Basic Kit

- **FS200-50:** 1550 nm point-to-point troubleshooting OTDR [30 dB]
- **FS200-60:** 1650 nm live PON troubleshooting OTDR [37 dB]
- **FS200-100:** 1310/1550 point-to-point verification & troubleshooting OTDR [32/30 dB]
- **FS200-300:** 1310/1550 PON & point-to-point verification & troubleshooting OTDR [37/36 dB]
- **FS200-304:** 1310/1550/1650 PON & point-to-point verification & troubleshooting OTDR [37/36/37 dB]



FLEXSCAN Plus Kit



FLEXSCAN PRO Kit

PART NUMBER	OTDR/Source λ (nm)	PON OTDR		OLS / OPM	BT / WiFi
		Dark	Live		
FS200-50-[Kit]-[KX]	1550				
FS200-50-[Kit]-PW-[KX]	1550			◆	◆
FS200-60-[Kit]-[KX]	1650	◆	◆		
FS200-60-[Kit]-PW-[KX]	1650	◆	◆	◆	◆
FS200-100-[Kit]-[KX]	1310/1550				
FS200-100-[Kit]-PW-[KX]	1310/1550			◆	◆
FS200-300-[Kit]-W-[KX]	1310/1550	◆			◆
FS200-300-[Kit]-PW-[KX]	1310/1550	◆		◆	◆
FS200-304-[Kit]-W-[KX]	1310/1550/1650	◆	◆		◆
FS200-304-[Kit]-PW-[KX]	1310/1550/1650	◆	◆	◆	◆

FS200 FlexScan Kit Configuration



FlexScan MPO Kit

[KIT]	FS200 FLEXSCAN Kit Configuration
BAS	Basic kit with soft case, TRM 2.0 Basic, USB cable
PLUS	PLUS kit adds 150 m SMF Fibre Ring, One-Click cleaner, TRM 2.0 Advanced
PRO	PRO kit adds FOCIS Flex, 2 Adapter Tips, Fibre Ring, One-Click Cleaner, TRM 2.0 Advanced

Flexscan Port & Inspection Tip Configuration

[KX]	OTDR Port	Fibre Ring End A	Fibre Ring End B	Port Inspection Tip	Patchlead Inspection Tip
KS01	SCA	SCA	SCA	SCA	Uni 2.5 mm Angled
KS02	SCA	SCA	SC	SC	Uni 2.5 mm
KS03	SCA	SCA	LC	LC	Uni 1.25 mm
KS04	SCA	SCA	LCA	LCA	Uni 1.25 mm Angled
KS05	SCA	SCA	ST	ST	Uni 2.5 mm
KS06	SCA	SCA	SC	SCA	Uni 2.5 mm Angled

For other kit configurations contact AFL Australia/New Zealand. Inspection tips only included with PRO kits. Additional tips required where hybrid fibre rings are used (sold separately)



3900-15-0001MR
External USB battery pack

6000-00-0034PR
USB charging cable

Extended Battery Pack and USB charging cable for FlexScan & FOCIS Family Products

Need to extend FlexScan or FOCIS Flex battery life in the field?
Or recharge using USB charger?

Now you can use the new external 5VDC battery pack and USB-to-DC-jack charging cable!

The external battery pack provides over 10,000 mAh capacity in a ruggedised, dust-proof package providing two 5V USB outputs. It even includes an LED flashlight! Connect the USB output to your FlexScan or FOCIS family 5VDC input jack using the USB-to-DC-jack cable. Or use the cable to recharge your FlexScan or FOCIS family product from your wall-mounted USB charger.



Fibre Ring



NS Bench Top Model



NSR Rack-mountable Model

FlexScan FS200 and FS300 Accessories

PART NUMBER	Description
6000-00-0031MR	Cable, USB-micro B, 5 pin, 6 ft
4050-00-0931PR	AC adapter 100-240 VAC to 5 VDC (specify [AC] option)
TRM-00-0920PR	TRM® 2.0 upgrade from Basic to Advanced software
1400-05-0230PZ	FLEXSCAN wrist strap
1400-05-0231PZ	FLEXSCAN neck strap, 36"
1400-01-0111PZ	Soft carry case for FlexScan, Fibre Ring, FOCIS Flex
1400-01-0128PZ	Soft carry case for FlexScan, Fibre Ring, FOCIS Flex, Fibre Identifier
1400-01-0134PZ	Hard carry case for FlexScan, Fibre Ring, FOCIS Flex, Fibre Identifier
6000-00-0034PR	5V USB Charging Cable (1.5 m)
3900-15-0001MR	10K mAh external USB battery pack, 5V @ 2A, Li-Ion. Rugged, dual output, built-in LED flashlight.
Fibre Rings	Coiled lengths of multimode or singlemode fibre packaged in compact rings for use as OTDR test cords.
Network Simulators	Custom-designed bench top or rack mountable boxes intended to duplicate installed fibre optic networks.
FOCIS Flex	See "FOCIS Flex Fibre Optic Connector Inspection System"

Note: Did you know free software updates for your OTDR are available for download on the www.AFLglobal.com -> [Resources](#) -> [Software](#) web page?

FlexScan FS200 and FS300 Connector Adapters

PART NUMBER	Description
2900-50-0002MR	FC adapter for OTDR/OLS port
2900-50-0003MR	SC adapter for OTDR/OLS port
2900-50-0004MR	ST adapter for OTDR/OLS port
2900-50-0006MR	LC adapter for OTDR/OLS port
2900-50-0011MR	SC/APC adapter for OTDR/OLS Port
2900-52-0001MR	FC adapter for OPM port
2900-52-0002MR	SC adapter for OPM port
2900-52-0003MR	ST adapter for OPM port
2900-52-0004MR	LC adapter for OPM port
2900-52-0005MR	2.5 mm Universal adapter for OPM port
2900-52-0006MR	1.25 mm Universal adapter for OPM port
2900-53-0001MR	2.5 mm Universal adapter for VFL port
2900-53-0002MR	1.25 mm Universal adapter for VFL port

Introducing

FlexScan[®] FS300

Quad and Penta OTDR with SmartAuto[®] & LinkMap[®]



Pocket-sized, Performance-packed, User-friendly, and Fast!

Test MM and SM, point-to-point and PON

Detects closely spaced events without sacrificing range

LinkMap icons clearly identify event type & pass/fail status

Best-in-class 20 m PON dead zone

Print-to-PDF plus internal & external data storage

Tether-free connector inspection with FOCIS Flex/Duel



FlexScan® FS300 Quad and Penta OTDR with SmartAuto® and LinkMap®

With SmartAuto multi-pulse acquisition, 37 dB dynamic range and best-in-class dead zones, FlexScan Quad/Penta OTDRs test multimode and singlemode networks – including FTTH PONs and POLANs up to 1:64 split ratio – while still detecting and measuring events <2 meters apart. FlexScan OTDRs enable both expert and novice technicians to quickly, reliably and accurately detect, locate, identify and measure optical network components and faults. After applying industry-standard or user-set pass/fail criteria, the network is displayed using FlexScan’s intuitive, icon-based LinkMap view. Results may be printed to PDF and stored internally or externally. FlexScan automates test setup, shortens test time and simplifies results interpretation, improving test efficiency and cost.

Features

- Test MM and SM, point-to-point and PON
- World’s first Penta OTDR adds Live PON test
- Detects closely spaced events without sacrificing range
- LinkMap icons clearly identify event type & pass/fail status
- Best-in-class 20 m PON dead zone
- Print-to-PDF plus internal & external data storage
- Integrated Source, Power Meter, Visual Fault Locator
- Bluetooth & WiFi communications
- Tether-free connector inspection with FOCIS Flex/Duel
- Rugged, lightweight, hand-held for field use
- 5” 800 x 480 colour touchscreen LCD

FlexScan® FS300 Quad and Penta OTDR Kit Configurations

FlexScan FS300 models are available in three kit configurations: Basic, PLUS and PRO. All kits include FS300 with AC charger, battery, carry strap, SC/2.5 mm connector adapters, TRM 2.0, quick reference user guide and carry case. PLUS Kits add 150 m fibre rings and One-Click cleaner. PRO kits additionally include a FOCIS Flex auto-focusing connector inspection probe with IEC pass/fail analysis and two adapter tips.

AFL NO.	OTDR/OLS λ (nm)	PON OTDR	OLS / OPM	WiFi	Bluetooth
FS300-325-[Kit]-W-[KX]	Quad: 850/1300 MM; 1310/1550 SM	◆		◆	◆
FS300-325-[Kit]-PW-[KX]	Quad: 850/1300 MM; 1310/1550 SM	◆	◆	◆	◆
FS300-326-[Kit]-W-[KX]	Penta: 850/1300 MM; 1310/1550/1650 SM	◆		◆	◆
FS300-326-[Kit]-PW-[KX]	Penta: 850/1300 MM; 1310/1550/1650 SM	◆	◆	◆	◆

FlexScan FS300 Quad and Penta OTDR Kit Configuration

[KIT]	FS300 FlexScan Kit Configuration
BAS	Basic kit with soft case, TRM 2.0 Basic, USB cable
PLUS	PLUS kit adds 150 m SMF & MMF Fibre rings, One-Click cleaner, TRM 2.0 Advanced
PRO	PRO kit adds FOCIS Flex, 2 adapter tips, 150 m SMF & MMF Fibre rings, One-Click cleaner, TRM 2.0 Advanced

FlexScan FS300 Quad and Penta OTDR Port & Inspection Tip Configuration

[KX]	OTDR Port	Fibre Ring End A	Fibre Ring End B	Port Inspection Tip	Patchlead Inspection Tip
KS01	SM: SCA	SM: SCA	SM: SCA	SCA	Uni 2.5 mm Angled
	MM: SC	MM: SC	MM: SC		
KS02	SM: SCA	SM: SCA	SM: LC	LC	Uni 1.5 mm
	MM: SC	MM: SC	MM: LC		

Note: Inspection Tips only included in Pro Kits. Additional tips required where hybrid fibre rings are used (sold separately).

Compact OTDRs

M710 OTDR — with LinkMap®

The M710's TruEvent identifies and reports the details and location of loss events more accurately. The M710's LinkMap® with Pass/Fail enables even novice users to easily and accurately troubleshoot optical networks. LinkMap presents an icon-based view of the tested network clearly identifying fibre start, end, connectors, splices and macro-bends. A LinkMap Summary provides end-to-end link length, loss, and ORL. Loss and reflectance of detected events is compared to industry-standard or user-settable pass/fail thresholds and displayed with clear pass/fail indications. The M710 OTDRs include an integrated visual fault locator, optical power meter, and a 6.5" transfective touchscreen display suitable for both indoor and outdoor operation. All models come with TRM® 2.0 Test Results Manager PC software (Basic License), USB Flash drive, AC adapter, switchable test port adapters, and cleaning accessories in a soft carry case. The M710 OTDR is inspection ready with the addition of our DFS1 Digital FibreScope. Standard UPC adapters for -20/-21/-40 models are SC, FC, LC, 2.5 mm & 1.25 mm universal. Standard UPC adapters for -24 model are (2) SC, FC, LC, 2.5 mm, and 1.25 mm universal.



M710



M710



M710 in a soft case



M710 with DFS1



DFS1 Digital FibreScope



Optical Configuration (NN)

- 24 = QUAD 850/1300 nm MM and 1310/1550 nm SM
- 21 = 1310/1550/1625 nm SM
- 20 = 1310/1550 nm SM
- 40 = 1310/1550 nm SM

OTDR Port Ferrule (F)

- U = UPC
- A = APC^a

User Interface Language (LL)

- 01 = English, French, German, Italian, Polish, Portuguese, Spanish
- 08 = English, Chinese^c

Power Cord (PC)

- 01 = USA (IEC320, 115V, Type K)
- 02 = Euro (IEC320, 250V, Type B)
- 03 = UK (IEC320, 250V, Type D)
- 04 = Australia (IEC320, 250V, Type C)
- 04 = China (IEC320, 250V, Type C)
- 05 = Denmark (IEC320, 250V, Type E)
- 06 = Japan (IEC320, 125V, Type M)
- 07 = Swiss (IEC320, 250V, Type L)
- 08 = Italy (IEC320, 250V, Type I)
- 09 = Israel (IEC320, 250V, Type H)
- 10 = India (IEC320, 250V, Type G)

Quick Reference Guide Language (LLL)^b

- ENG = English
- CHS = Chinese Simplified
- CHT = Chinese Traditional
- DEU = German
- FRA = French
- ITA = Italian
- JPN = Japanese
- POL = Polish
- POR = Portuguese
- SPA = Spanish
- TUR = Turkish

Example: M710-20U-08-ENG-04

This model number indicates M710 SM OTDR English/Chinese (Simplified & Traditional) User Interface Language option in a soft carry case. Its quick reference guide is in English and it comes with a power cord suitable for China.

Model	Wavelengths (nm)					Emitter Type ^d	Dynamic Range (dB)	LinkMap®	Power	Integrated		Internal / USB Trace Storage
	850	1300	1310	1550	1625					VFL	OPM	
M710-20			◆	◆		Laser	41/39	◆	Li-Ion, AC	◆	◆	◆
M710-21			◆	◆	◆	Laser	41/39/39	◆	Li-Ion, AC	◆	◆	◆
M710-40			◆	◆		Laser	44/42	◆	Li-Ion, AC	◆	◆	◆
M710-24	◆	◆	◆	◆		Laser	25*/24*/40/38	◆	Li-Ion, AC	◆	◆	◆

Notes:

- a. Available on the SM port for -20, -21, -24 models only.
- b. When ordering OTDR, specify Language option for the OTDR Quick Reference Guide.
- c. The M710 OTDR User Interface in Chinese (Simplified and Traditional) is available for -20, -21, and -40 models only.
- d. Safety: Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03.
- e. 62.5 µm fibre.

M710 OTDR Accessories

AFL NO.	Description
DFS1-00-xxxx	DFS1 USB Digital FibreScope kits.
4050-00-0122PR	Vehicle charger/supply, 18 V, 6.7 A, 120 W
1400-01-0090PZ	M710 hard carry case
4050-00-0918PR	AC adapter 100-240 VAC to 18 VDC, (specify power cord)
3900-05-0004ME	Li-Ion battery
4050-30-0005MR	Li-Ion battery charger 90-260 VAC (specify power cord)
6000-00-0027MR	Cable, USB-MINI B (connect to PC)
TRM-00-0920PR	TRM® 2.0 upgrade from Basic to Advanced software

Note: Did you know free software updates for your OTDR are available for download on the www.AFLglobal.com -> [Resources](#) -> [Software](#) web page?

Carry Case Option

- The M700-H1 hard transit case has wheels and a retractable pull handle.
- Custom kits may be created by ordering an M710 OTDR, the M700-H1 hard carry case and accessories such as Fibre Rings, cleaning accessories, Optical Light Source, and DFS1 Digital FibreScope.
- The M700-H1 hard carry case is the 1400-01-0090PZ hard carry case with cleaning supplies added.



M710 in a hard case

Model	Description
M700-H1	Hard carry case with One-Click Cleaner SC/ST/FC (2.5 mm), One-Click Cleaner MU/LC (1.25 mm), OPTIPOP-R1

M710 OTDR Connector Adapters

AFL NO.	Description
2900-50-0002MR	FC adapter for OTDR port
2900-50-0003MR	SC adapter for OTDR port
2900-50-0004MR	ST adapter for OTDR port
2900-50-0006MR	LC adapter for OTDR port
2900-50-0011MR	SC/APC adapter for OTDR port
8800-00-0200	FC adapter for OPM port
8800-00-0209	SC adapter for OPM port
8800-00-0202	ST® adapter for OPM port
8800-00-0225	LC adapter for OPM port
8800-00-0214	2.5 mm Universal adapter for OPM port
8800-00-0224	1.25 mm Universal adapter for OPM port
2900-53-0001MR	2.5 mm Universal adapter for VFL port
2900-53-0002MR	1.25 mm Universal adapter for VFL port
8800-00-0072PR	Universal flip-top dust cap for UCI outputs

OTDR Fibre Rings and Network Simulators

OTDR Launch and Receive/Tail Cords - Fibre Rings

To measure the insertion loss of the near-end and/or far-end connection of a fibre optic link, an OTDR requires a launch and/or receive/tail test cord, which essentially are test jumpers that can range from about 150 m to over 1 km in length. Because very long test jumpers are impractical to transport and use, AFL offers coiled lengths of 50 µm multimode (standard and Laser Optimised), 62.5 µm multimode, or singlemode fibre, packaged in compact rings, for use as OTDR test cords. Fibre Rings of 150 m of fibre are ideal for premises fibre network test applications. Fibre Rings of 500 m and 1 km of singlemode fibre are designed for broadband, long-haul fibre network test applications.



Fibre Ring



NS Bench Top Model



NSR Rack-mountable Model

Fibre Rings

AFL NO.	Configuration	Fibre Type	Fibre Length
FR1-M5-150-x1-x2	Standard, one fibre	Multimode, 50 µm, OM2	150 m (492 ft)
FR1-OM3-150-x1-x2	Standard, one fibre, Laser Optimised	Multimode, 50 µm, OM3	150 m (492 ft)
FR1-M6-150-x1-x2	Standard, one fibre	Multimode, 62.5 µm	150 m (492 ft)
FR1-OM4-150-x1-x2	Standard, one fibre, Laser Optimised	Multimode, 50 µm, OM4	150 m (492 ft)
FR1-SM-150-y1-y2	Standard, one fibre	Singlemode	150 m (492 ft)
FR1-SM-500-y1-y2	Standard, one fibre	Singlemode	500 m (1640 ft)
FR1-SM-1000-y1-y2	Standard, one fibre	Singlemode	1000 m (3280 ft)
FR1-BIF-150-y1-y2	Standard, one fibre, Bend Insensitive	Singlemode, G.657.A2 BIF	150 m (492 ft)
FR1-BIF-500-y1-y2	Standard, one fibre, Bend Insensitive	Singlemode, G.657.A2 BIF	500 m (1640 ft)
FR1-BIF-1000-y1-y2	Standard, one fibre, Bend Insensitive	Singlemode, G.657.A2 BIF	1000 m (3280 ft)
FR1-SM-30-MPO-NA-MPO-NA	MPO/APC, non-pinned	Singlemode	30 m (98 ft)
FR1-SM-30-MPO-A-MPO-A	MPO/APC, pinned	Singlemode	30 m (98 ft)
FR1-SM-61-MPO-PA-MPO-PA-TA	MPO/APC, pinned, Type A	Singlemode	61 m (200 ft)
FR1-SM-61-MPO-PA-MPO-PA-TB	MPO/APC, pinned, Type B	Singlemode	61 m (200 ft)

Other fibre types, connector styles, and custom lengths are available by request

Notes:

- a. x1, x2 — connectors for multimode cables, specify type [ST, SC, ASC (angled SC), FC, AFC (angled FC), LC].
- b. y1, y2 — connectors for singlemode cables, specify type [ST, SC, ASC (angled SC), FC, AFC (angled FC), LC].
- c. Other fibre types, connector styles, and custom lengths are available by request.

Custom-Designed Network Simulators

AFL network simulators are custom-designed bench-top or rack mountable boxes intended to duplicate installed fibre optic networks. Training classes and laboratory testing are just a couple of the many applications for these units. Network simulators may be ordered with customer-specified lengths of multimode or singlemode fibre. Events such as connections, fusion splices, and mechanical splices can be added at various points within the fibre to duplicate installed networks. A variety of changeable panel mounted connector types are available. The bench top models can accommodate up to 15 km of fibre and the rack mountable cases can hold up to 100 km of fibre. Contact Customer Service (800-321-5298 / 603-528-7780) for a quote on your custom network simulator.

FTTx PON Simulator Kits

The FTTx PON Simulator Kit is designed to simulate a wide variety of FTTx PON architectures. It is field-configurable to implement both single splitter and distributed splitter PONs.

This field-portable kit may be used for lab or table-top FTTx PON demonstration, evaluation, and testing applications. The FTTx PON Simulator Kit is designed for a variety of users and applications, including network designers, fibre optic installation teams and trainers, equipment manufacturers, and sales engineers.



FTTx PON Simulator Kit

AFL NO.	Description
PONS-00-0901PZ	FTTx PON Simulator kit includes: (1) FTTx PON splitter box, (4) fibre rings, (3) SC/APC jumpers, (2) hybrid jumpers, (1) PON demo procedure, (1) carry case.
PONS-00-0900PZ	FTTx PON Simulator kit includes: (1) FTTx PON splitter box, (4) fibre rings, (3) SC/APC jumpers, (2) hybrid jumpers, (1) OLS7-FTTH, (1) PON demo procedure, (1) carry case.

DWDM and CWDM Testers

AFL understands that the same WDM technologies that make high capacity Cell Backhaul, Metro Ethernet and Broadband Triple-play services possible also present complex testing challenges. We've seen how technicians and engineers have struggled to apply legacy measurement products to test or troubleshoot today's cutting edge Metro and Access networks. In response, we've developed innovative new products, like the WDM900 Lightwave Test Set, that incorporate exclusive features designed to simplify WDM testing and enable even first time users to identify, document and resolve the cause of WDM network issues or outages.



WDM900-40 kit



WDM900-60 kit

WDM900 Lightwave Test Set

US Patent # 9,515,726

The WDM900 is the world's first rugged, portable and easy-to-use optical test set that simplifies in-service testing of live DWDM and CWDM networks. Within just seconds of connecting to a network port, WDM900 users know the status of each channel, which channels require attention and exactly what action is required. The WDM900 is engineered to perform under the harsh conditions typically found in a central office, headend, network node and other outside plant locations. Its highly-integrated solid state design features a hermetically-sealed optical engine and no moving parts. A real-time internal wavelength reference and temperature-stabilised mechanism eliminates long warm-up periods and accuracy drifts induced by sudden temperature and humidity changes. The WDM900 is the only portable WDM measurement system that satisfies Telcordia GR-2952-CORE environmental specifications.

The WDM900's innovative Health Meter is protected by US Patent # 9,515,726.

Two different models of WDM900 are available.

- WDM900-40 – designed for commissioning, testing and troubleshooting of DWDM Access/Metro network links
- WDM900-60 – designed for commissioning, testing and troubleshooting of CWDM and DWDM Access/Metro network links

AFL NO.	Description
WDM900-40	Includes a WDM900 Lightwave Test Set configured for C-band 50 GHz & 100 GHz DWDM operation, SC/FC/LC (UPC) test port adapters, SC/FC/LC input attenuators, (2) One-Click Cleaners, AC adapter, user's guide and soft carry case.
WDM900-60	Includes a WDM900 Lightwave Test Set configured for C-band 50 GHz & 100 GHz DWDM and 18-channel CWDM operation, SC/FC/LC (UPC) test port adapters, SC/FC/LC input attenuators, (2) One-Click Cleaners, AC adapter, user's guide and soft carry case.

MFIS Multi-Fibre Identification System



MFI Multi-Fibre Identifier



MFT Multi-Fibre Tracer



MFP Multi-Fibre Power Meter

An innovative product family to help users verify network construction quickly, accurately and efficiently!

100% Multi-Fibre Network continuity assurance

Assures correct Fibre labeling, flags excessive power losses on individual fibres

Each unit is rugged, lightweight, and easily operated with one hand

MFP Multi-Fibre Power Meter can be used as regular OPM

Test up to 12 dark fibres at a time

Multi-Fibre Test Solutions

MFIS Multi-Fibre Identification System

MFIS Multi-Fibre Identification System is an award-winning, innovative product family to help users verify network construction quickly, accurately and efficiently. MFIS provides 100% multi-fibre network continuity assurance and senior management peace-of-mind.



MFT Multi-Fibre Tracer



MFI Multi-Fibre Identifier



MFP Multi-Fibre Power Meter

MFT Multi-Fibre Tracer	Wavelength	Output Power	Connector Type	Power
MFT	1550 nm ±20 nm	+3 dBm ±1 dB peak into 9/125 µm Fibre	MTP®/MPO-APC (unpinned) 12-Fibre	2 X AA

MFI Multi-Fibre Identifier	Calibrated Fibre Size and Wavelength	Data Detection Range	Working Fibre Size	Power
MFI	250 µm @1550 nm (SMF-28/28E) ribbon Fibre	+2 to -35 dBm	250 µm ribbon Fibre	2 X AAA

MFP Multi-Fibre Power Meter	Calibrated Wavelength	Measurement Range	Power
MFP	Fibre ID mode: 1550 nm OPM mode: 850, 1300, 1310, 1490, 1550, 1625 nm	Fibre ID mode: +10 to -35 dBm OPM mode: +10 to -75 dBm	2 X AAA

MFIS Ordering

AFL NO.	Includes					
	Multi-Fibre Tester			Accessories		Soft Carry Case
	MFT Tracer	MFI Identifier	MFP Power Meter	12-Fibre Cable	One-Clicks	
MFTI-12-BAS	◆	◆		◆	◆	◆
MFTP1-12-BAS	◆		◆	◆	◆	◆
MFTIP1-12-BAS	◆	◆	◆	◆	◆	◆
MFI1-00-0900MR		◆				
MFP1-12-0900MR			◆			

MFIS Kits Order Entry

MFTI-12-BAS- **C** MFTP1-12-BAS- **C** MFTIP1-12-BAS- **C**

C	Cable type
ASC	MPO to 12-Fibre SC/APC fan-out cable, One-Click Cleaner MPO, One-Click Cleaner Mini-100 SC, ST, FC
USC	MPO to 12-Fibre SC/UPC fan-out cable, One-Click Cleaner MPO, One-Click Cleaner Mini-100 SC, ST, FC
ULC	MPO to 12-Fibre LC/UPC fan-out cable, One-Click Cleaner MPO, One-Click Cleaner Mini-100 LC/MU

MFIS Accessories

AFL NO.	Description
8700-00-0198MR	Cable, MPO/APC(M)-SC/APC, 12-Fibre, SM, fan-out, 3 meters
8700-00-0200MR	Cable, MPO/APC (M) - SC/UPC, 12-Fibre, SM, fan-out, 3 meters
8700-00-0201MR	Cable, MPO/APC (M) - LC/UPC, 12-Fibre, SM, fan-out, 3 meters
8500-05-0005MZ	One-Click Cleaner Mini-100 SC, ST, FC (100+ cleans)
8500-05-0006MZ	One-Click Mini-100 MU/LC (100+ cleans)
8500-05-0030MZ	One-Click Cleaner MPO (500+ cleans)



TJ-03 Temporary Splice

TJ-03 Temporary Splice

The TJ-03 is a temporary mechanical fibre splice for fibre and cable connections to test equipment such as OTDRs or fibre optic cable reels. The TJ-03 uses a precision ceramic V-groove to align up to 12 fibres simultaneously. The fibres are prepared for joining by using standard mass fusion fibre preparation tools (fibre holders, hot jacket stripper, and cleaver.) Using the TJ-03 in conjunction with an OTDR equipped with an optical switch provides rapid one button optical tests of 12 fibres.

AFL NO.	Description
S012772	TJ-03 Temporary Splice Kit includes: (1 pair) FH-50-12 fibre holders, CT-30 cleaver, HJS-02 hot jacket stripper, ADC-09 AC adapter for HJS-02, ACC-09 power cord
S010456	TJ-03 Temporary Splice (without fibre preparation tools)

Note: TJ-03 Temporary Splice and TJ-03 Temporary Splice Kit ship from the AFL Splicer Division in Spartanburg, SC.



MT Tracer Kit

MT Tracer (12-fibre VFI and Display)

The MT Tracer kit includes an MT Tracer Source, MT Tracer Display, and carry case. The MT Tracer Source, which may be used as a multifibre Visual Fault Identifiers provides 12 separately controlled visible lasers. The MT Tracer Display uses passive optics to show the light received on each fibre being traced. The MT Tracer can illuminate a selected fibre or automatically sequence through all 12 fibres. When used together, the MT Tracer Source and Display provide a fast way to trace (verify connectivity) a 12-fibre link. Both Source and Display are equipped with male (pinned) 12-fibre MTP® connectors.

Model	Wavelength	Output Power (into SMF)	Emitter Type*	Connector Type	Power
MT Tracer Source	650 nm	1 mW, 2 Hz or CW	Laser	MTP®	2 AA (40 hours)

* Safety: Class II FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1:2007-03.

AFL NO.	Model	Description
TRCR-90-0900	MT Tracer Kit	MT Tracer Source, MT Tracer Display, and carry case
TRCR-20-0900	MT Tracer Source	MT Tracer Source
TRCR-10-0900	MT Tracer Display	Provides eye-safe viewing of visible light

5 YEAR WARRANTY

Optical Power Meters (OPM and CSM1 Series)

Quick Ref Guides (PDF format) are available in Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Portuguese, Spanish and Turkish on www.AFLglobal.com.



OPM4



OPM5



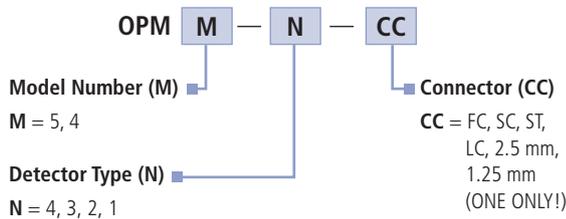
CSM1

OPM models.

- Select one of the following adapter caps when ordering power meters: 2.5 mm, 1.25 mm, FC, SC, ST, LC.
- OPM5 models include TRM® 2.0 software (Basic License).

When placing an order, select options as follows:

- Model Number (M)
- Detector Type (N)
- Connector Configuration (CC)

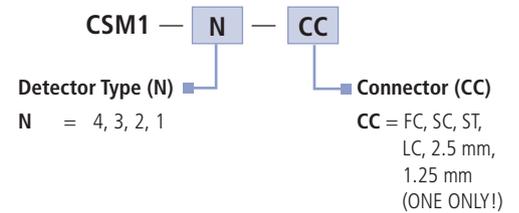


CSM1 models

- Select one of the following adapter caps when ordering power meters: 2.5 mm, 1.25 mm, FC, SC, ST, LC.

When placing an order, select options as follows:

- Detector Type (N)
- Connector Configuration (CC)



Model	Calibrated Wavelengths (nm)					Detector Type	Measurement Range (dBm)	Units of Measure	Power	Features			
	650	660	780	850	980					1300	1310 ^a	1490	1550
OPM4-1D	◆	◆	◆	◆		Silicon	+6 to -70	dB, dBm, W	(2) AA, USB	◆		◆	◆
OPM4-2D				◆		Germanium	+6 to -60	dB, dBm, W	(2) AA, USB	◆		◆	◆
OPM4-3D				◆		InGaAs	+10 to -75	dB, dBm, W	(2) AA, USB	◆		◆	◆
OPM4-4D				◆	◆	InGaAs	+26 to -50	dB, dBm, W	(2) AA, USB	◆		◆	◆
OPM5-2D				◆		Germanium	+6 to -60	dB, dBm, W	(2) AA, USB	◆	USB	◆	◆
OPM5-3D				◆		InGaAs	+10 to -75	dB, dBm, W	(2) AA, USB	◆	USB	◆	◆
OPM5-4D				◆	◆	InGaAs	+26 to -50	dB, dBm, W	(2) AA, USB	◆	USB	◆	◆
CSM1-1		◆	◆	◆		Silicon	+6 to -70	dB, dBm, W	(2) AA	◆			◆
CSM1-2				◆		Germanium	+6 to -60	dB, dBm, W	(2) AA	◆			◆
CSM1-3				◆		InGaAs	+6 to -70	dB, dBm, W	(2) AA	◆			◆
CSM1-4				◆	◆	InGaAs	+26 to -50	dB, dBm, W	(2) AA	◆			◆

Notes:

- a. Optical Power Meters use a common calibration point for 1300 nm (multimode) and 1310 nm (singlemode).
 b. 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone detection.

OPM Accessories

AFL NO.	Description	OPM4D	OPM5D
6000-00-0024MR	USB Cable: PC (USB-A) to OPM (USB-MINI B): - Connect OPM to PC for data upload to TRM® 2.0 - External Power for OPM (when used with customer supplied USB-A power source)	External power only	Connect to PC and external power

5 YEAR WARRANTY

LED and Laser Light Sources (OLS and CSS1 Series)

Quick Ref Guides (PDF format) are available in Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Portuguese, Spanish and Turkish www.AFLglobal.com.

Encircled Flux Options for multimode testing. See "Encircled Flux (EF) Modal Conditioners".

When ordering, specify connector type at the end of model number (e.g. OLS2-DUAL-SC).

All OLS models include protective rubber boot and carry case.

AC adapters are available (ordered separately), see table below.



OLS1-DUAL



OLS2-DUAL



OLS4



OLS7



CSS1-SM

Model	Output Wavelengths (nm)						Output Ports	Emitter Type ^a	Output Power (nominal, dBm)	Stability	Wave ID Transmit	Available Connectors	Power
	850	1300	1310	1490	1550	1625							
OLS1-2C	◆	◆					2	LED	-20	± 0.1 dB/8 hrs		ST	9 volt, AC
OLS1-DUAL	◆	◆					1	LED	-20	± 0.1 dB/8 hrs	◆	FC, SC, ST, LC	(2) AA, AC
OLS2-DUAL			◆		◆		1	Laser	0 ^b	± 0.05 dB/1 hr	◆	FC, SC, ST, LC	(2) AA, AC
OLS4	◆	◆	◆		◆		2	LED & Laser	-20 @850 &1300 nm 0 @1310 & 1550 nm	± 0.05 dB/1 hr	◆	FC, SC, ST, LC	(2) AA, AC
OLS7-3			◆		◆	◆	1	Laser	-5	± 0.05 dB/1 hr	◆	FC, SC, ST, LC	(2) AA, AC
OLS7-FTTH			◆	◆	◆		1	Laser	-5	± 0.05 dB/1 hr	◆	FC, SC, ST, LC	(2) AA, AC
OLS7-FTTx			◆	◆		◆	1	Laser	-5	± 0.05 dB/1 hr	◆	FC, SC, ST, LC	(2) AA, AC
CSS1-MM	◆	◆					1	LED	-20	± 0.1 dB/1 hr		SC (fixed)	(2) AA
CSS1-SM			◆		◆		1	Laser	0	± 0.05 dB/1 hr		FC, SC, ST, LC	(2) AA

Notes:

All Laser output powers are specified into 9/125 µm singlemode fibre.

- a. Safety: Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03.
- b. Adjustable 2 dB.

OLS AC Adapters

AFL NO.	Description	OLS1-DUAL	OLS2-DUAL	OLS4	OLS7
4050-00-0919PR	100-240 VAC to 9 VDC (specify power cord)	◆	◆	◆	◆

Connector Adapters (D models starting February 2006)

AFL NO.	Description	OLS1-DUAL	OLS2-DUAL	OLS4	OLS7	CSS1-SM
2900-50-0002MR	FC adapter	◆	◆	◆	◆	◆
2900-50-0003MR	SC adapter	◆	◆	◆	◆	◆
2900-50-0004MR	ST adapter	◆	◆	◆	◆	◆
2900-50-0006MR	LC adapter	◆	◆	◆	◆	◆
8800-00-0072PR	Universal flip-top dust cap for UCI outputs	◆	◆	◆	◆	

5 YEAR WARRANTY

Optical Loss Test Kits (SMLP, SLP, MLP, and CK Series)

Quick Ref Guides (PDF format) are available in Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Portuguese, Spanish and Turkish on www.AFLglobal.com.

Encircled Flux Options for multimode testing. See "Encircled Flux (EF) Modal Conditioners".

Specify one source/adaptor cap connector type when ordering. All test kits include an optical power meter, optical light source, adapter cap, protective rubber boots, user's guide, and carry case. Additional adapter caps may be ordered separately. SMLP5 and MLP5 kits also include TRM® 2.0 Test Results Manager trace analysis/reporting and certification or OPM loss reporting PC software (Basic License). Other test kit configurations are available upon request.



MLP4-2D



MLP5-2D



SMLP4-4



SLP5-6D



SMLP5-5

AFL NO.	Power Meter	Light Source	Fibre Type	Loss Measurements (nm)						Dynamic Range (dB)	Available Connectors	Features		
				850	1300	1310	1490	1550	1625			Set Ref.	PC S/W	Auto Dual λ Test
MLP4-2D	OPM4-2D	OLS1-DUAL	MM SM	◆	◆					40 @850/1300 nm ^a 22 @1300 nm ^b	FC, SC, ST, LC	◆		◆
MLP5-2D	OPM5-2D	OLS1-DUAL	MM SM	◆	◆					40 @850/1300 nm ^a 22 @1300 nm ^b	FC, SC, ST, LC	◆	◆	◆
SLP4-6	OPM4-3D	OLS2-DUAL	SM			◆	◆			70 ^b	FC, SC, ST, LC	◆		◆
SLP4-6D	OPM4-4D	OLS2-DUAL	SM			◆	◆			50 ^b	FC, SC, ST, LC	◆		◆
SLP4-7	OPM4-4D	OLS7-3	SM			◆	◆	◆		45 ^b	FC, SC, ST, LC	◆		◆
SLP4-FTTH	OPM4-4D	OLS7-FTTH	SM			◆	◆	◆		45 ^b	FC, SC, ST, LC	◆		◆
SLP4-FTTx	OPM4-3D	OLS7-FTTx	SM			◆	◆	◆		70 ^b	FC, SC, ST, LC	◆		◆
SLP5-6	OPM5-3D	OLS2-DUAL	SM			◆	◆			70 ^b	FC, SC, ST, LC	◆	◆	◆
SLP5-6D	OPM5-4D	OLS2-DUAL	SM			◆	◆			50 ^b	FC, SC, ST, LC	◆	◆	◆
SLP5-7	OPM5-4D	OLS7-3	SM			◆	◆	◆		45 ^b	FC, SC, ST, LC	◆	◆	◆
SLP5-FTTH	OPM5-4D	OLS7-FTTH	SM			◆	◆	◆		45 ^b	FC, SC, ST, LC	◆	◆	◆
SLP5-FTTx	OPM5-3D	OLS7-FTTx	SM			◆	◆	◆		70 ^b	FC, SC, ST, LC	◆	◆	◆
SMLP4-4	OPM4-2D	OLS4	MM SM	◆	◆	◆		◆		40 @850/1300 nm ^a 60 @1310/1550 nm ^b	FC, SC, ST, LC	◆		◆
SMLP5-5	OPM5-2D	OLS4	MM SM	◆	◆	◆		◆		40 @850/1300 nm ^a 60 @1310/1550 nm ^b	FC, SC, ST, LC	◆	◆	◆
CKM-2	CSM1-2	CSS1-MM	MM	◆	◆					40 ^a	SC (fixed)	◆		
CKS-2	CSM1-2	CSS1-SM	SM			◆	◆			60 @1310/1550 nm	FC, SC	◆		
CKS-3	CSM1-3	CSS1-SM	SM			◆	◆			70 @1310/1550 nm	FC, SC	◆		
CKSM-2	CSM1-2	CSS1-MM CSS1-SM	MM SM	◆	◆	◆	◆			40 @850/1300 nm ^a 60 @1310/1550 nm ^b	SC	◆		

Notes:

- a. On 62.5/125 µm multimode fibre.
- b. On 9/125 µm singlemode fibre.

FTK Installer Kit

The FTK kit provides a wide selection of fibre optic testing, cleaning and inspection equipment to enable technicians to install, troubleshoot and maintain fibre optic networks. Complete with multimode and singlemode test equipment, the kit also includes test accessories in a convenient carry case.

AFL NO.	Kit Contents (partial list)
FTK1-01-0902PR	OPM5-2D, OLS4, OFS300, fibre rings, jumpers, adapters, cleaning supplies (wet and dry), reporting software, etc.

Encircled Flux (EF) Compliant Sources & Test Kits

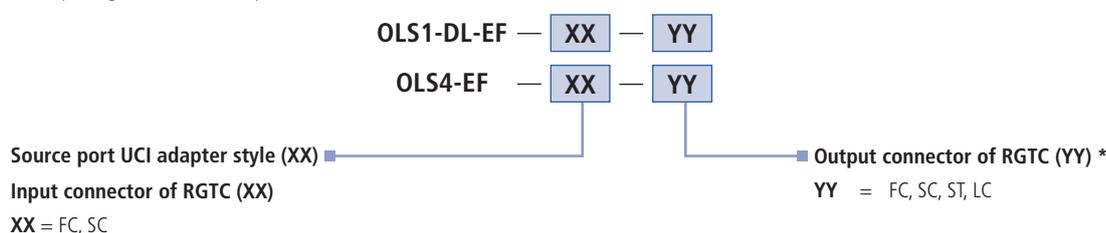
Encircled Flux (EF) Compliant Light Sources

Since adoption by the IEC, Encircled Flux (EF) multimode launch requirements are increasingly specified into fibre loss testing job requirements. Meeting EF specification requires technicians use EF qualified test sets. It is important to note IEC 61280-1-4 and TIA-568-14-B, specify EF multimode launch conditions at the end of an EF qualified Reference Grade Test Cord (RGTC) – not directly out source test port. Thus, EF compliance requires an EF Light Source and RGTC used together.

AFL offers multimode Light Sources with designed in Encircled Flux (EF) optics supplied with EF qualified RGTC. Specify RGTC connectors at time of order. OLS1-DUAL EF is supplied with one multimode RGTC OLS4 EF is supplied with one multimode RGTC and one standard 9/125 singlemode test cord.

PART NUMBER	Wavelengths	Test Cords Included
OLS1-DUAL-EF-XX-YY	MM 850/1300 nm	(1) RGTC, 50 µm, MM, 2-meter
OLS4-EF-XX-YY	MM 850/1300 nm SM 1310/1550 nm	(1) RGTC, 50 µm, MM, 2-meter (1) 9/125 µm, SM, 2-meter

When placing an order, select options as follows:



Notes:

* See section "Encircled Flux (EF) Reference Grade Test Cords" to order additional Reference Grade Test Cords,.

For Encircled Flux (EF) Mode Conditioning Cords that can be used with non-EF Compliant Sources, see "Encircled Flux (EF) Modal Conditioners"



Encircled Flux (EF) Compliant Test Kits

Since adoption by the IEC, Encircled Flux (EF) multimode launch requirements are increasingly specified into fibre loss testing job requirements. Meeting EF specification requires technicians use EF qualified test sets. It is important to note IEC 61280-1-4 and TIA-568-14-B, specify EF multimode launch conditions at the end of an EF qualified Reference Grade Test Cord (RGTC) – not directly out source test port. Thus, EF compliance requires an EF Light Source and RGTC used together.

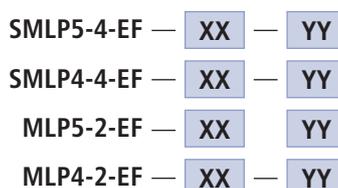
AFL EF compliant loss test kits include:

Multimode Test Ports: (SMLP and MLP kits)

- Light Source with designed in Encircled Flux (EF) optics paired with one EF qualified RGTC.
- 50/125 µm receive test cord
- Singlemode Test Ports (SMLP kits)
- Light Source with two 9/125 µm test cords (launch/receive)

PART NUMBER	Power Meter	Light Source	WL - λ (nm)	Dynamic Range (dB)	Available Connectors		Included 2-metre Test Cords	
					Source Port	Test Cord	Launch (µm)	Receive (µm)
SMLP5-5-EF-XX-YY	OPM5-2D	OLS4-EF	850, 1300, 1310, 1550	40 @850/1300 nm 60 @1310/1550 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125 SM: 9/125	MM: 50/125 SM: 9/125
SMLP4-4-EF-XX-YY	OPM4-2D	OLS4-EF	850, 1300, 1310, 1550	40 @850/1300 nm 60 @1310/1550 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125 SM: 9/125	MM: 50/125 SM: 9/125
MLP5-2-EF-XX-YY	OPM5-2D	OLS1-DL-EF	850, 1300	40 @850/1300 nm 22 @1300 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125	MM 50/125
MLP4-2-EF-XX-YY	OPM4-2D	OLS1-DL-EF	850, 1300	40 @850/1300 nm 22 @1300 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125	MM 50/125

When placing an order, select options as follows:



Source port UCI adapter style (XX)

Input connector of RGTC (XX)

XX = FC, SC

Notes:

* See table below, "Encircled Flux (EF) Reference Grade Test Cords" to order additional Reference Grade Test Cords.

For Encircled Flux (EF) Mode Conditioning Cords that can be used with non-EF Compliant Sources, see "Encircled Flux (EF) Modal Conditioners".

Output connector of RGTC (YY) *

YY = FC, SC, ST, LC

Encircled Flux (EF) Reference Grade Test Cords

Encircled Flux (EF) requirements (IEC 61280-1-4 and TIA-568-14-B) specify multimode launch conditions at the end of an EF qualified Reference Grade Test Cord (RGTC). Thus, compliance to EF standards requires both a light source with EF compliant optics and a RGTC.

AFL offers RGTCs with a range of connector options. Note: RGTCs are qualified in one direction and marked accordingly (input/output). Order RGTCs with all output connectors encountered in network testing.

PART NUMBER	Connectors
TLT-S3FCFC2M	FC to FC, 2 m
TLT-S3FCSC2M	FC to SC, 2 m
TLT-S3FCLC2M	FC to LC, 2 m
TLT-S3FCST2M	FC to ST, 2 m
TLT-S3SCFC2M	SC to FC, 2 m
TLT-S3SCSC2M	SC to SC, 2 m
TLT-S3SCLC2M	SC to LC, 2 m
TLT-S3SCST2M	SC to ST, 2 m



Encircled Flux Modulator

Encircled Flux (EF) Modal Conditioners

Industry specifications TIA-526-14-B and IEC 61280-4-1 Ed. 2.0 define multimode test launch conditions required for testing multimode networks. Modal conditioners provide a convenient and reliable means of bringing multimode sources into compliance with encircled flux specification requirements. Modal Conditioners are available in both 50 micron and 62.5 micron configurations. Each conditioner is supplied with one meter pigtailed. EF modal controllers are used to provide an EF compliant output when used with non EF light sources.

PART NUMBER	Description: Fibre Size, Connectors
TLL-S3FCFC2M-EF	50/125 µm, FC input to FC output, 2 m
TLL-S6FCFC2M-EF	62.5/125 µm, FC input to FC output, 2 m
TLL-S3SCSC2M-EF	50/125 µm, SC input to SC output, 2 m
TLL-S6SCSC2M-EF	62.5/125 µm, SC input to SC output, 2 m
TLL-S3SCLC2M-EF	50/125 µm, SC input to LC output, 2 m
TLL-S6SCLC2M-EF	62.5/125 µm, SC input to LC output, 2 m



TRM 2.0/3.0 Test Results Manager

TRM Test Results Manager is Windows-compatible PC software, which provides comprehensive OTDR trace, connector inspection, and optical loss test results analysis and reporting. Designed for use with AFL test and inspection products, TRM is available in Basic and Advanced versions.

TRM Basic permits technical personnel to quickly view results, generate acceptance reports, analyze OTDR traces, loss or certification results or batch edit OTDR traces uploaded from all AFL M-Series, CS-Series, OFL-Series, FLX-Series OTDRs and OPM products. TRM® 2.0 Basic also supports industry standard Telcordia (GR-196 v1.1, SR-4731 issue 1 & 2) .SOR formats and permits fibre inspection images from the AFL FOCIS inspection system to be included in test reports. TRM Advanced version adds automatic Macro/Microbend detection, Bi-directional trace averaging and export to .CSV.

TRM Basic is included with M-Series, OFL-Series, FLX-Series, CS-Series OTDRs and OPM5 (five fulfillments included at no additional charge). Users may download TRM full working version (Basic plus Advanced features) and try it for 30 days. Once the evaluation period ends, users will need to acquire TRM Basic or TRM Advanced software package to continue to use TRM.

TRM 2.0 Ordering (for use with M-series OTDRs, OPM4/5)

AFL NO.	Description
TRM-00-0900PR	TRM 2.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), USB delivery
TRM-01-0900PR	TRM 2.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), email delivery
TRM-00-0910PR	TRM 2.0 with Advanced License (TRM 2.0 Basic plus Advanced Analysis), USB delivery
TRM-01-0910PR	TRM 2.0 with Advanced License (TRM 2.0 Basic plus Advanced Analysis), email delivery
TRM-00-0920PR	TRM 2.0 upgrade from Basic to Advanced License, USB delivery
TRM-01-0920PR	TRM 2.0 upgrade from Basic to Advanced License, email delivery

TRM 3.0 Ordering (for use with FlexScan OTDRs, FOCIS family products)

AFL NO.	Description
TRM-BASIC	TRM 3.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), USB delivery
TRM-BA-EMAIL	TRM 3.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), email delivery
TRM-ADVANCED	TRM 3.0 with Advanced License (TRM 3.0 Basic plus Advanced Analysis), USB delivery
TRM-AD-EMAIL	TRM 3.0 with Advanced License (TRM 3.0 Basic plus Advanced Analysis), email delivery
TRM-UPGRADE	TRM 3.0 upgrade from Basic to Advanced License, USB delivery
TRM-UP-EMAIL	TRM 3.0 upgrade from Basic to Advanced License, email delivery

Optical Attenuator (SVA1)

When ordering SVA1, specify connector type at end of model number (e.g. SVA1-FC). All models include carry case and instruction card. APC termination for the SVA1 is available for an additional \$100.



SVA1

Model	Calibrated Wavelengths or Range	Fibre Type	Insertion Loss	Attenuation Range	Return Loss	Connectors	Power
SVA1	1250 - 1650 nm	SM	≤1.5 dB @1310 nm ≤2 dB @1550 nm	60 dB	50 dB	FC, SC, ST APC (available*)	N/A

SVA1 Accessories and Connector Adapters

AFL NO.	Description
2900-50-0002MR	FC adapter
2900-50-0003MR	SC adapter
2900-50-0004MR	ST adapter
2900-50-0006MR	LC adapter
8800-00-0072PR	Universal flip-top dust cap for UCI outputs

5 YEAR WARRANTY

Visual Fault Identifiers

HiLite and VF12 Series

Visual fault identifiers (VFI) use powerful red lasers to trace and troubleshoot singlemode or multimode optical fibre links. A VFI can identify bends and breaks in 3 mm and 900 mm jacketed patch cords as well as bare fibre in splice trays.

Model	Wavelength	Output Power (into singlemode fibre)	Emitter Type*	Connector Type	Power
HiLite	650 nm	1 mW, 2 Hz	Laser	Universal 2.5 mm	1 x AAA (16 hours)
VF12	650 nm	1 mW, 2 Hz or CW	Laser	Universal 2.5 mm	2 x AA (60 hours)

* Safety: Class II FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1:2007-03.



VF12



HiLite

AFL NO.	Description
HiLite Models	
VF13-00-0900PR	HiLite visual fault identifier with 2.5 mm adapter
VF13-01-0900PR	HiLite visual fault identifier with 2.5 mm and 1.25 mm adapters
VF12 Models	
VF12-00-0900PR	VF12 visual fault identifier with 2.5 mm adapter
VF12-01-0900PR	VF12 visual fault identifier with 2.5 mm and 1.25 mm adapters

VF12 and HiLite Accessories

- Current models of HiLite and VF12 products use one-piece thread-on adapters with a captivated alignment sleeve. For replacements, use part numbers 2900-50-0007MR and 2900-50-0010MR.
- Older units with multi-part adapters accept replacement alignment sleeves (8100-00-0004MR). If customers prefer, the entire adapter can be replaced with the new one-piece adapters thereby enabling the unit to accept both 2.5 mm and 1.25 mm ferrules.

AFL NO.	Description	HiLite	VF12
2900-50-0007MR	2.5 mm Universal for VFI port	◆	◆
2900-50-0010MR	1.25 mm Universal for VFI port	◆	◆
8100-03-0004MR	Bronze split sleeve	For older models with 2-piece adapters	

Optical Fibre Identifiers

OFI- 200D and OFI-400 Optical Fibre Identifiers

All OFI models include carry case, batteries, and user's guide.



OFI-200D OFI-400

Model	Fibre Coating Type (recommended)	Wavelength Range (nm)	Insertion Loss (dB) @		Power	Tone (Hz)				Traffic Direction
			1310 (nm)	1550 (nm)		270	330	1000	2000	
OFI-200D	250 µm, 900 µm, ribbon, 2 mm or 3 mm jacketed	800 - 1700	0.6	2.5	9V				◆	◆
OFI-400C	2 mm or 3 mm jacketed	800 - 1700	1.0	2.8	(2) AAA	◆	◆	◆	◆	◆
OFI-400	250 µm, 900 µm, ribbon, 2 mm or 3 mm jacketed	800 - 1700	0.6	2.5	(2) AAA	◆	◆	◆	◆	◆
OFI-400HP	2 mm or 3 mm jacketed	800 - 1700	0.2 to 0.5	0.8 to 1.3	(2) AAA	◆	◆	◆	◆	◆



FUJFID-30R FUJFID-31R

FUJFID-31R and FUJFID-30R Optical Fibre Identifiers

Our full featured FID includes a touch screen, positive stop trigger and several easy to select options. This identifier can be used with any SM fibre – including bend insensitive fibre, bare fibres, ribbons and up to 3 mm jackets. The FUJFID-30R model adds an integrated optical power meter. These units can also be customised for ONU detection. Both models include carry case, batteries, and user's guide.

Model	Fibre Type	Wavelength Range	Power	Detectable Signals	Integrated Power Meter
FUJFID-30R	0.25 mm SM and SM ribbon fibre (up to 12 ribbon) 1.1 /1.5 /1.7 /2.0 /3.0 mm SM jacketed fibre	900-1700 nm	(2) AA	CW, Traffic or 270 Hz/1 kHz/2 kHz	◆
FUJFID-31R	0.25 mm SM and SM ribbon fibre (up to 12 ribbon) 1.1 /1.5 /1.7 /2.0 /3.0 mm SM jacketed fibre	900-1700 nm	(2) AA	CW, Traffic or 270 Hz/1 kHz/2 kHz	

FUJFID-30R Power Meter Port Adapters

PART NUMBER	Description
FUJFID-ACC-ADPT-25	2.5 universal adapter for power meter port
FUJFID-ACC-ADPT-SC	SC adapter for power meter port
FUJFID-ACC-ADPT-FC	FC adapter for power meter port
FUJFID-ACC-ADPT-ST	ST adapter for power meter port
FUJFID-ACC-ADPT-LC	LC adapter for power meter port



**FIBRE INSPECTION
& CLEANING**

Fibre Optic Connector Inspection



FOCIS Flex

FOCIS Flex Fibre Optic Connector Inspection System

FOCIS Flex is the world's smallest, fastest, self-contained fibre connector inspection probe. Its innovative, ultrafast auto-focusing system auto-centers, captures and analyzes the optical fibre end-face, displaying "Pass/Fail" results on the built-in screen in one push of a button. Results can be transferred wirelessly to smart devices or FlexTester OTDRs. The FOCIS Flex offers built-in pass/fail analysis to updated IEC 61300-3-35, IPC, AT&T or user set criteria. The device can also be used for OptiTap and MTP/MPO inspections with AFL adapters.

All FOCIS Flex kits include TRM® 2.0, Test Results Manager software to prepare and print or save connector inspection reports using results uploaded from the FOCIS Flex to a PC.

Download the free FOCIS Flex App to archive results and prepare inspection reports using AFL's aeRos cloud-based workflow management software. FOCIS Flex App is available for Android devices from Google Play and for iOS devices from the Apple App Store.

FOCIS Flex is available in a 'No Wireless' [NW] variant, which removes the Bluetooth and WiFi functionality for use in RF restricted facilities.



FOCIS Flex with FlexScan OTDR



FOCIS Flex Connector Inspection Kits

PART NUMBER	Description
FOCIS-FLX-P4XN	FOCIS Flex, soft carry case/holster, AC charger, wrist strap, no tips, TRM 2.0 Basic
FOCIS-FLX-NW-P4XN	FOCIS Flex, soft carry case/holster, AC charger, wrist strap, TRM 2.0 Basic, no tips, no BT or WiFi wireless functionality
FOCIS-FLX-K08	FOCIS Flex, soft case/holster, AC charger, wrist strap, 8 tips, UPC tips: 1.25 univ., 2.5 univ., SC, LC - APC tips: 1.25 univ., 2.5 univ., SC, LC, TRM 2.0 reporting software, reference guide



FOCIS Flex with Smart Device



3900-15-0001MR
External USB battery pack

6000-00-0034PR
USB charging cable

Extended Battery Pack and USB charging cable for FlexScan & FOCIS Family Products

Need to extend FlexScan or FOCIS Flex battery life in the field?
Or recharge using USB charger?

Now you can using the new external 5VDC battery pack and USB-to-DC-jack charging cable!

The external battery pack provides over 10,000 mAh capacity in a ruggedised, dust-proof package providing two 5V USB outputs. It even includes an LED flashlight! Connect the USB output to your FlexScan or FOCIS family 5VDC input jack using the USB-to-DC-jack cable. Or use the cable to recharge your FlexScan or FOCIS family product from your wall-mounted USB charger.



FOCIS Duel Fibre Optic Connector Inspection System

Features

- Auto-focus (both ports) and auto-centering (Port 1) for fast, easy inspection
- Rechargeable battery lasts more than eight hours
- Self-contained, tether-free, compact, hand-held inspection solution
- IEC 61300-3-35 (2015), IPC 8497-1, AT&T TP-76461 and user-defined auto-inspection (Port 1)
- Available with more than three dozen tips supporting all commonly used connector types, including MPO/MTP multi-fibre connectors and bulkheads
- Field replaceable NiMH battery
- Snout and adapter tip slots eliminate loosening during normal operation

Applications

- Inspect connectors on bulkhead adapters (Port 1) and patch cords (Port 2) without swapping adapter tips
- Optimal tool for optical network installation, turn-up, troubleshooting and maintenance
- MPO/MTP multi-fibre multi-row connectors inspection
- Critical fibre infrastructure performance assurance
- Maintenance of fibre connections at highest optical performance levels
- Verification that proper connector cleaning practices are being used

FOCIS Duel is a self-contained twin-ported Bluetooth connected fibre optic connector inspection probe with integrated screen. The first port (right hand side Port 1) is fully featured, identical to AFL's FOCIS Flex. The second port (left hand side Port 2) has fast and convenient female LC "click-in" adapters, auto-focus and 2X zoom capabilities. The FOCIS Duel can perform IEC, IPC, AT&T and userdefined end-face cleanliness analysis and store Port 1 images and reports locally. The AFL FOCIS App (iOS and Android) provides a comprehensive and user-friendly feature set as well as connectivity with AFL's cloud-based aeRos® workflow automation platform.

Pass / fail results in seconds: With the press of a single button, Port 1 of the FOCIS Duel auto-focuses, captures, centers and analyzes the end-face image to industry standard IEC 61300-3-35 (2015), IPC, AT&T and user-defined criteria.

Untethered operation: With rechargeable battery and integrated 2.4" colour TFT LCD screen, FOCIS Duel can be used independently.

Wide range of adapter tips: Port 1 – Interchangeable adapter tips support single and multi-fibre connector inspection for a wide range of patch cords and bulkhead-mounted connectors having either PC/UPC or APC polished end-faces. A key on the probe snout combined with a slot on the adapter tips assures that adapter tips never loosen during use, under any circumstances. Quad-slotted APC adapter tips ensure the screen is visible in any use case.

Port 2 – A slot on the adapter tips combined with a keyed snout eliminates loosening during normal use. Port 2 adapter tips are available for all common connector types – Universal 1.25 mm and 2.5 mm, SC and LC in both UPC and APC polish types.

Inspection kits include AC charger, carry strap, two user-selected adapter tips (optionally), and soft carry case.

Ordering Information

Part Number	DESCRIPTION
FOCIS-DUEL-N	FOCIS Duel Kit, soft carry case, AC charger, with no tips or One-Click® cleaner
FOCIS-DUEL-K08	FOCIS Duel Kit, soft carry case, AC charger, PORT 1 – 4 tips (for bulkhead testing): 1.25 mm, 1.25 mm APC, 2.5 mm, 2.5 mm APC PORT 2 – 4 tips (for patch-cord testing) : LC, LCA SC, SCA
FOCIS-DUEL-K12	FOCIS Duel Kit, soft carry case, AC charger, PORT 1 – 8 tips (for bulkhead/patch-cord testing): 1.25 mm, 1.25 mm APC, 2.5 mm, 2.5 mm APC, LC, LCA, SC, SCA PORT 2 – 4 tips (for patch-cord testing) : LC, LCA SC, SCA

FOCIS Duel Adapter Tips

Part Number	PORT USAGE	DESCRIPTION	TIP ID
FFLX-4S-ASC	1	Quad Slotted SC APC Bulkhead Tip	XASC
FFLX-4S-AFC	1	Quad Slotted FC APC Bulkhead Tip	XAFC
FFLX-4S-ALC	1	Quad Slotted LC APC Bulkhead Tip	XALC
FDUO-01-ULC	2	Slotted Female LC UPC Adapter	SULC
FDUO-01-ALC	2	Slotted Female LC APC Adapter	SALC
FDUO-01-USC	2	Slotted Female SC UPC Adapter	SUSC
FDUO-01-ASC	2	Slotted Female SC APC Adapter	SASC
FDUO-01-U125	2	Slotted Universal 1.25 mm UPC Adapter	SU125
FDUO-01-A125	2	Slotted Universal 1.25 mm APC Adapter	SA125
FDUO-01-U25	2	Slotted Universal 2.5 mm UPC Adapter	SU25
FDUO-01-A25	2	Slotted Universal 2.5 mm APC Adapter	SA25



FDUO-01-ULC



FDUO-01-ALC



FOCIS WiFi2

FOCIS WiFi2™ Fibre Optic Connector Inspection System

FOCIS WiFi2 is an ergonomic Fibre Optic Connector Inspection System that, when paired with an iOS or Android smart device, provides fast and accurate IEC/IPC/AT&T compliant and user-defined pass/fail end-face cleanliness analysis. Free of charge iOS and Android companion apps support a comprehensive and user-friendly feature set.

Pass/fail results in seconds: With the press of a single button, FOCIS WiFi2 auto-focuses, captures, centers and analyzes the end-face image to industry standard IEC 61300-3-35 (2015), IPC-8497-1, AT&T TP-76461 and user-defined criteria.

Untethered operation: App-based report generator with results/reports that can be shared by email. With rechargeable battery and convenient pass/fail LED feedback, FOCIS WiFi2 can be used autonomously.

Wide range of adapter tips: Interchangeable adapter tips support single and multi-fibre connector inspection for a wide range of patch cords and bulkhead-mounted connectors having either PC/UPC or APC polished end-faces compatible with all FOCIS Flex adapter tips.



FOCIS WiFi2 Connector Inspection Kits

PART NUMBER	Description
FOCIS-WIFI2-N	FOCIS WiFi2, soft carry case, AC charger, with NO tips or One-Click cleaner
FOCIS-WIFI2-K08	FOCIS WiFi2 Kit, soft carry case, AC charger, quick reference guide, 8 tips, UPC tips: univ., 1.25 univ., 2.5 univ., SC, LC – APC tips: 1.25 univ., SC, LC



FOCIS-WiFi2-UA kit

FOCIS Flex, FOCIS Duel and FOCIS WiFi2 Connector Inspection Accessories

PART NUMBER	Description
1400-01-0107MZ	FOCIS Flex replacement soft carry case with strap
1400-05-0230PZ	FOCIS Flex replacement wrist strap
3900-04-0008ME	Replacement battery, 3.6V, NiMH, rechargeable
4050-00-0030MR	FOCIS Flex Original replacement AC charger
4050-00-00931PR	FOCIS Flex2 replacement AC charger. Includes power plug. Select option (US, UK, EU, CN/Australia) when ordering.
4050-00-0030USMR	Replacement US power plug for AC charger
4050-00-0030UKMR	Replacement UK power plug for AC charger
4050-00-0030EUMR	Replacement EU power plug for AC charger
4050-00-0030SAAMR	Replacement SAA power plug for FOCIS Flex AC charger
6000-00-0031MR	Replacement USB – Micro-B cable, 5 pin, 6 ft
6000-00-0034PR	5V USB Charging Cable (1.5 m)
8800-02-0074MZ	FOCIS Flex replacement dust cap
FOCIS-FLX-1ENG	FOCIS Flex replacement Quick Reference Guide



3900-15-0001MR



6000-00-0034PR

FOCIS and DFS1 Adapter Tips

Following table identifies commonly required adapter tips. Other adapter tips available. Consult factory for additional adapter tips and prices.



DFS1-00-0001MR



DFS1-00-0002MR



DFS1-00-0003MR



DFS1-00-0014MR



DFS1-00-0062MR



DFS1-00-0024MR



DFS1-00-0026MR

AFL NO.	Description	FOCIS Series	DFS1	Tip ID
PC Ferrule Connector Adapter Tips				
DFS1-00-0001MR	Universal 1.25 mm		◆	U125
DFS1-00-0002MR	Universal 2.5 mm	◆	◆	U25
DFS1-00-0005MR	Universal 2.0 mm	◆	◆	U20
DFS1-00-0006MR	Universal 1.6 mm (for termini)	◆	◆	T16M
DFS1-00-0038MR	Slim 1.25 mm (for LuxCis and termini)		◆	T12M
DFS1-00-0039MR	Slim 2.5 mm (for ELIO and termini)		◆	T25M
DFS1-00-0007MR	Biconic		◆	BI
DFS1-00-0008MR	ELIO 1.25 mm		◆	E12M
DFS1-00-0009MR	SMA 905	◆	◆	SMA
SC/PC and FC/PC Bulkhead Adapter Tips				
DFS1-00-0003MR	SC/PC and FC/PC		◆	FS
DFS1-00-0010MR	Short (~60 mm) extended tip for SC/PC and FC/PC bulkhead adapter	◆	◆	FS
DFS1-00-0011MR	Medium (~100 mm) extended tip for SC/PC and FC/PC bulkhead adapter	◆	◆	FS
DFS1-00-0012MR	Long (~150 mm) extended tip for SC/PC and FC/PC bulkhead adapter	◆	◆	FS
DFS1-00-0013MR	60° angled tip for SC/PC and FC/PC bulkhead adapter		◆	FS, A6
DFS1-00-0040MR	60° angled tip for SC/PC bulkhead adapter		◆	SC, A6
ST/PC Bulkhead Adapter Tips				
DFS1-00-0014MR	ST/PC bulkhead adapter tip	◆	◆	ST
DFS1-00-0015MR	Short (~60 mm) extended tip for ST/PC bulkhead adapter	◆	◆	ST
DFS1-00-0016MR	Medium (~100 mm) extended tip for ST/PC bulkhead adapter	◆	◆	ST
DFS1-00-0017MR	Long (~150 mm) extended tip for ST/PC bulkhead adapter	◆	◆	ST
DFS1-00-0018MR	60° angled tip for ST/APC bulkhead adapter		◆	ST, A6
LC/PC/UPC Bulkhead Adapter Tips				
DFS1-00-0004MR	LC/PC		◆	LC
DFS1-00-0020MR	Medium (~100 mm) extended tip for LC/PC bulkhead adapter	◆	◆	LC
DFS1-00-0021MR	Long (~150 mm) extended tip for LC/PC bulkhead adapter	◆	◆	LC
DFS1-00-0022MR	60° angled tip for LC/PC bulkhead adapter		◆	LC, A6
DFS1-00-0059MR	Short (~60 mm) extended tip for LC PC/UPC bulkhead adapter	◆	◆	LCP-S
DFS1-00-0062MR	LC/UPC female style adapter tip	◆	◆	LCM
E2000/PC Bulkhead Adapter Tips				
DFS1-00-0023MR	Short (~60 mm) extended tip for E2000/PC bulkhead adapter	◆	◆	E2K
DFS1-00-0024MR	Medium (~100 mm) extended tip for E2000/PC bulkhead adapter	◆	◆	E2K
DFS1-00-0025MR	Long (~150 mm) extended tip for E2000/PC bulkhead adapter	◆	◆	E2K
MU/PC Bulkhead Adapter Tips				
DFS1-00-0026MR	MU/PC bulkhead adapter tip	◆	◆	MU
DFS1-00-0027MR	Short (~60 mm) extended tip for MU/PC bulkhead adapter	◆	◆	MU
DFS1-00-0028MR	Medium (~100 mm) extended tip for MU/PC bulkhead adapter	◆	◆	MU
DFS1-00-0029MR	Long (~150 mm) extended tip for MU/PC bulkhead adapter	◆	◆	MU
DFS1-00-0030MR	60° angled tip for MU/PC bulkhead adapter		◆	MU, A6
SC2 Bulkhead Adapter Tips				
DFS1-00-0043MR	Short (~60 mm) extended tip for SC2 bulkhead	◆	◆	SC2
DFS1-00-0044MR	Medium (~100 mm) extended tip for SC2 bulkhead	◆	◆	SC2
DFS1-00-0045MR	Long (~150 mm) extended tip for SC2 bulkhead	◆	◆	SC2



DFS1-00-0050MR



DFS1-00-0060MR



DFS1-00-0041MR



DFS1-00-0061MR



DFS1-01-0017MR



DFS1-01-007MR



DFS1-01-0016MR

FOCIS and DFS1 Adapter Tips (continued)

AFL NO.	Description	FOCIS Series	DFS1	Tip ID
MTP/MPO Multi-fibre Adapter Tips (ferrule and bulkhead)				
DFS1-00-0037MR	MTP/PC ferrule and bulkhead adapter extended tip; includes base and MTP/PC front end tip	◆	◆	MTP ^{a,b}
DFS1-00-0041MR	Front end tip for MTP/PC ferrule and bulkhead	◆	◆	MTP ^b
DFS1-00-0058MR	Front end tip for MPO-16 UPC ferrule and bulkhead	◆	◆	MTP16 ^b
DFS1-00-0042MR	MTP/PC and MTP/APC ferrule and bulkhead adapter extended tip kit; includes base and MTP/PC & MTP/APC front end tips	◆	◆	MTP, MTPA ^{a,b}
DFS1-00-0050MR	Multi-row MTP/PC ferrule and bulkhead adapter extended tip kit; includes base and multi-row MTP/PC front end tip	◆	◆	MTP ^{a,b}
DFS1-00-0060MR	Base for multi-row MTP/PC ferrule and bulkhead adapter extended tip	◆	◆	MTP ^{a,b}
DFS1-00-0061MR	MTP/MPO-UPC female style	◆	◆	MTM
DFS1-01-0010MR	MTP/APC ferrule and bulkhead adapter extended tip kit; includes base and MTP/APC front end tip	◆	◆	MTPA ^{a,b}
DFS1-01-0012MR	Front end tip for MTP/APC ferrule and bulkhead	◆	◆	MTPA ^b
DFS1-01-0015MR	Front end for angled MPO-16/MTP-16 ferrule and bulkhead	◆	◆	MTPA16 ^b
DFS1-01-0017MR	MTP/MPO-APC female style	◆		MTMA
Miscellaneous Adapter Tips				
DFS1-00-0056MR	Universal 60 degrees angled extended adapter tip	◆	◆	A6A, U-A6
DFS1-00-0031MR	LEMO 2.0 mm bulkhead		◆	LEMO
DFS1-00-0032MR	LX.5/PC bulkhead		◆	LX
DFS1-00-0033MR	2.0 mm termini bulkhead		◆	T20F
DFS1-00-0034MR	1.6 mm termini bulkhead	◆	◆	T16F
DFS1-00-0036MR	ELIO 1.25 mm bulkhead		◆	E12F
DFS1-00-0046MR	SMA 905 bulkhead	◆	◆	SMAF
DFS1-00-0047MR	TFOCA II ferrule and bulkhead adapter tip and guide kit		◆	TFO-U TFO-G
DFS1-00-0048MR	TFOCA II ferrule and bulkhead adapter guide only		◆	TFO-G
DFS1-00-0049MR	TFOCA II ferrule and bulkhead adapter tip only	◆	◆	TFO-U
DFS1-00-0057MR	Adapter for Viavi/Westover tips, for DFS1 and FOCIS Flex inspection probe	◆	◆	WOA
DFS1-00-0063MR	MT ferrule holder for use with MTM and MTMA adapters	◆		
DFS1-00-0064MR	Extended CS UPC bulkhead adapter tip	◆	◆	CS-E
APC Tips				
DFS1-01-0001MR	Universal 1.25 mm, APC ferrule		◆	U12A
DFS1-01-0002MR	Universal 2.5 mm, APC ferrule	◆	◆	U25A
DFS1-01-0003MR	SC/APC and FC/APC bulkhead		◆	FSA
DFS1-01-0011MR	SC/APC bulkhead	◆	◆	SCA
DFS1-01-0004MR	LC/APC bulkhead		◆	LCA
DFS1-01-0005MR	Short (~60 mm) extended tip for SC/APC bulkhead	◆	◆	SCAX
DFS1-01-0006MR	60° angled tip for SC/APC bulkhead		◆	A6A
DFS1-01-0007MR	SC/APC (OptiTap®) bulkhead	◆	◆	OTAPA
DFS1-01-0008MR	E2000/APC bulkhead	◆	◆	E2KA
DFS1-01-0009MR	LX.5/APC bulkhead		◆	LXA
DFS1-01-0013MR	OptiTip® APC ferrule and bulkhead	◆	◆	OTIPA
DFS1-01-0014MR	Short (~60 mm) extended tip for LC/APC bulkhead	◆	◆	LCA-S
DFS1-01-0016MR	LC/APC female style	◆		LCAM

Notes:

- a. MTP extended tip marking includes S/N since these have moving parts.
- b. Base plus tip is required to inspect MPO/MTP connectors. All MPO/MTP connectors are inspected through bulkhead adapter.



FFLX-01-SC



FFLX-01-ALC2



FFLX-01-ULCHD

NEW



FFLX-4S-ALC3

NEW



FFLX-01-ULCE

FOCIS Adapter Tips (continued)

AFL NO.	Description	FOCIS Duel Port 1, FOCIS Flex, FOCIS WiFi2	Tip ID
FOCIS WiFi2, FOCIS Flex Adapter Tips			
FFLX-01-SC	SC/UPC bulkhead	◆	SC
FFLX-01-ASC	SC/APC bulkhead	◆	ASC
FFLX-01-FC	FC/UPC bulkhead	◆	FC
FFLX-01-AFC	FC/APC bulkhead	◆	AFC
FFLX-01-ST	ST/UPC bulkhead	◆	ST
FFLX-01-LC	LC/UPC bulkhead	◆	LC
FFLX-01-ALC2	LC/APC improved bulkhead adapter tip with internal prism	◆	ALC2
FFLX-01-U25	Universal 2.5 mm, UPC ferrule	◆	U25
FFLX-01-A25	Universal 2.5 mm, APC ferrule	◆	A25
FFLX-01-U125	Universal 1.25 mm, UPC ferrule	◆	U125
FFLX-01-A125	Universal 1.25 mm, APC ferrule	◆	A125
FFLX-01-ULCHD	LC/PC/UPC adapter tip for high density distribution trays	◆	LCNGU
FFLX-01-EXTS46	FOCIS adapter extension tube, straight, 46 mm	◆	
FFLX-01-EXTS80	FOCIS adapter extension tube, straight, 80 mm	◆	
FFLX-4S-ASC	SC/APC bulkhead adapter tip, quad-slotted	◆	XASC
FFLX-4S-AFC	FC/APC bulkhead adapter tip, quad-slotted	◆	XAFC
FFLX-4S-ALC	LC/APC bulkhead adapter tip, quad-slotted, with internal prism	◆	XALC
FFLX-4S-ALC3	Extended LC APC bulkhead adapter tip, quad-slotted	◆	ALC3
FFLX-01-ULCE	Extended LC UPC Adapter Tip	◆	ULCE



OFS300



VS300

Microscopes for Connectors on Patch Cords (OFS300, VS300)

The OFS300-200C and VS300 are hand-held microscopes used for inspecting fibre optic connectors on patch cords and test jumpers.

The OFS300-200C is a high-resolution optical microscope with integrated infrared safety filter. The VS300 is a video microscope with no direct optical path from the connector under inspection to the user.

Each scope includes a 2.5 mm Universal adapter cap and neck strap. VS300 models also include a carry case.

The OFS300-200C and VS300 models use thread-on adapter caps.

Model	Nominal Magnification	Adapter Mount	Infrared Safety Filter	Power
OFS300-200C	200x	Thread-on	Schott KG3	(2) AA alkaline
VS300	400x	Thread-on	Not required - no optical path to user	(2) AA alkaline

Low Cost, Basic MTP®/MPO Inspection and Cleaning Kits



VS300 MTP/MPO Kit

PART NUMBER	Description
MPOK-AU-OPTX	OFS300 UPC/APC MTP/MPO Inspection and Cleaning kit
MPOK-XU-OPTX	OFS300 UPC MTP/MPO Inspection and Cleaning kit
MPOK-AX-OPTX	OFS300 APC MTP/MPO Inspection and Cleaning kit
MPOK-AU-VIDX	VS300 UPC/APC MTP/MPO Inspection and Cleaning kit
MPOK-XU-VIDX	VS300 UPC MTP/MPO Inspection and Cleaning kit
MPOK-AX-VIDX	VS300 APC MTP/MPO Inspection and Cleaning kit

MPO Upgrade Kits



OFS300 MTP/MPO Kit

PART NUMBER	Description
MPOK-AU-OPTU	OFS300 UPC/APC MTP/MPO Upgrade kit
MPOK-XU-OPTU	OFS300 UPC MTP/MPO Upgrade kit
MPOK-AX-OPTU	OFS300 APC MTP/MPO Upgrade kit
MPOK-AU-VIDU	VS300 UPC/APC MTP/MPO Upgrade kit
MPOK-XU-VIDU	VS300 UPC MTP/MPO Upgrade kit
MPOK-AX-VIDU	VS300 APC MTP/MPO Upgrade kit

OFS300 Accessories



2460-10-0002

PART NUMBER	Description
2460-10-0002	Spare LED for OFS300-200B
1400-01-0055	Soft Carry case
OFS1-00-0100	Hard Carry case
2900-10-0001	Tripod Stand (table top)
1400-01-0025PZ	Holster
2900-10-0004	20X Eyepiece

VS300 Accessories

PART NUMBER	Description
1400-01-0055	Soft carry case
VOS3-00-0109	Hard carry case
VOS3-00-0104	Replacement eyepiece
2900-10-0001	Tripod stand (table top)
4050-00-0115	AC adapter 110 VAC/9 VDC
VOS3-00-0108	Video cable, VS300 to RCA plug



NEW



FOCIS Lightning

FOCIS Lightning Multi-Fibre Optic Connector Inspection System

FOCIS Lightning is an ultrafast MPO/MTP® connector inspection system with two high resolution image sensors to allow the instantaneous assessment of the full multi-fibre end face surface conditions, including a partial view of the connector pins or holes. IEC compliant auto-analysis can be completed 10 to 100 times faster than legacy mechanical scanning methods. FOCIS Lightning captures up/down key orientation, and supports all fibre configurations up to two rows with sixteen fibres per row. Individual fibre images, pass/fail auto analysis overlays, and zone table data are available for viewing on the integrated colour LCD screen. Free mobile apps (iOS and Android) support inspection reporting and provide a conduit to the aeRos® cloud-based workflow management platform.

FOCIS Lightning Connector Inspection Kits

Each FOCIS Lightning Kit includes: FOCIS Lightning probe with wrist strap and dust cap, AC charger with country-specific plug, USB cable, quick reference guide, and Easy Access carry case.

FOCIS Lightning is available in a 'No Wireless' [NW] variant, which removes the Bluetooth and WiFi functionality for use in RF restricted facilities.

AFL NO.	Contains (ea.)									
	FOCIS Lightning Probe	AC Charger	Bulkhead Adapter Tips			Alignment Sleeves		One-Click Cleaner		Easy Access Carry Case
			UPC	APC						
			M12U	MPOU	M12A	MPO-12	MPO-16	MPO-12	MPO-16	
FOCIS-LTNG-N	1	1								1
FOCIS-LTNG-U	1	1	1	1		1	1	1	1	1
FOCIS-LTNG-A	1	1			1	1		1		1
FOCIS-LTNG-UA	1	1	1	1	1	1	1	1	1	1
FOCIS-LTNG-NW-N	1	1								1
FOCIS-LTNG-NW-U	1	1	1	1		1	1	1	1	1

FOCIS Lightning Order Entry

FOCIS-LTNG – **K** – **PLUG**

K	Kit type
N	No adapter tips
U	UPC adapter tips
A	APC adapter tips
UA	UPC and APC adapter tips

PLUG	Country-specific AC power plug
US	United States
UK	United Kingdom
EU	European Union
CN	China, Australia

Kit	Bulkhead adapter tips, alignment sleeves (for patch cords), One-Click cleaners			
FOCIS-LTNG-U Kits				
U Kit	Bulkhead tips	Tip ID	Alignment sleeves	One-Click
	MPO-12 (with key)	M12U	MPO-12 opposed	MPO-12
	MPO-12 / MPO-16 (without key)	MPOU	MPO-16 opposed	MPO-16
FOCIS-LTNG-A Kits				
A Kit	Bulkhead tips	Tip ID	Alignment sleeves	One-Click
	MPO-12 (with key)	M12A	MPO-12 opposed	MPO-12
FOCIS-LTNG-UA Kits				
UA Kit	Bulkhead tips	Tip ID	Alignment sleeves	One-Click
	MPO-12 (with key)	M12U	MPO-12 opposed	MPO-12
	MPO-12 / MPO-16 (without key)	MPOU	MPO-16 opposed	MPO-16
	MPO-12 (with key)	M12A		



Smart Device Apps



1400-01-0172PZ
(example)



6000-00-0034PR



3900-15-0001MR

FOCIS Lightning Accessories

AFL NO.	Description
1400-01-0172PZ	Easy Access carry case
1400-05-0230PZ	Wrist strap
1400-10-0228PZ	Protective polymer boot to protect FOCIS Lightning from drop damage
3900-04-0008ME	Battery, 3.6V, NiMH, rechargeable
4050-00-0931PR	AC charger. Select power plug option [PLUG]
4050-00-0030USMR	US power plug for AC charger
4050-00-0030UKMR	UK power plug for AC charger
4050-00-0030EUMR	EU power plug for AC charger
4050-00-0030SAAMR	CN power plug for AC charger
6000-00-0031MR	USB – Micro-B cable, 5 pin, 6'
8800-02-0083MZ	FOCIS Lightning dust cap
1400-01-0024MZ	Small tackle box
4050-00-0033MR	Vehicle charger, 12 VDC to 5 VDC @2A
6000-00-0034PR	5V USB charging cable (1.5 m), type A to barrel (0.9 X 3.2 X 9 mm)
3900-15-0001MR	10K mAh external USB battery pack, 5V @ 2A, Li-Ion
4050-01-0001PR	Convenience bundle of USB charging cable (6000-00-0034PR) and external USB battery pack (3900-15-0001MR)

FOCIS Lightning Adapter Tips



FLTNG-01-M12A



FLTNG-01-MPOU



FLTNG-01-M12U



FLTNG-01-SFA

AFL NO.	Description	Tip ID
FLTNG-01-M12A	MPO APC adapter tip for MPO-12/24 fibre APC (with key)	M12A
FLTNG-01-MPOU	MPO UPC adapter tip for MPO-12/24/16/32 fibre UPC (no key)	MPOU
FLTNG-01-M12U	MPO UPC adapter tip for MPO-12/24 fibre UPC (with key)	M12U
FLTNG-01-M16U	MPO UPC adapter tip for MPO-16/32 fibre UPC (with key)	M16U
FLTNG-01-MPU	Universal UPC adapter tip for MPO-12/16/24/32 fibre UPC (with key)	MPU
FLTNG-01-MPA	Universal APC adapter tip for MPO-12/16/24/32 fibre APC (with key)	MPA
FLTNG-01-ULCM	Extended LC UPC Bulkhead Adapter Tip	ULCM
FLTNG-01-ALCM	Extended LC APC Bulkhead Adapter Tip	ALCM
FLTNG-01-SFA	Coupler for single fibre adapter tips	SFA
FLTNG-01-M12AC	MPO-12 APC Patch Cord Adapter Tip	M12AC
FLTNG-01-M12UC	MPO-12 UPC Patch Cord Adapter Tip	M12UC
FLTNG-01-M16UC	MPO-16 UPC Patch Cord Adapter Tip	M16UC

FOCIS Flex OptiTap/OptiTip Inspection and Cleaning Solutions

OptiTap® (hardened SC/APC) and OptiTip® (hardened MPO/APC) connectors can be easily inspected and cleaned using AFL's Inspection and Cleaning solutions.

FOCIS Flex OptiTip Connectors

The FOCIS Flex OptiTip connector can be easily inspected using either DFS1 Inspection Probe (included in FOCIS WiFi Inspection Systems) or FOCIS Flex with the DFS1-01-0013MR OptiTip adapter tip with OTIPM barrel attachment installed or removed. Cleaning of the OptiTip connector is made simple with the NEOCLEAN-M cleaner, which cleans all 12-fibre end-faces easily with a simple push action.

PART NUMBER	Description
FOCIS Flex	See section "FOCIS Flex Fibre Optic Connector Inspection System"
DFS1-01-0013MR	DFS1 adapter tip for OptiTip® APC ferrule and bulkhead adapter (Tip ID: OTIPA)
8500-15-0909MZ	NEOCLEAN-M for MPO/MTP connectors, 600+ cleans

FOCIS Flex OptiTap Connectors

The FOCIS Flex OptiTap connector can be easily inspected using either DFS1 Inspection Probe (included in FOCIS WiFi Inspection Systems) or FOCIS Flex with the DFS1-01-0002MR or FFLX-01-A25 adapter tip respectively. The OptiTap connector is easily cleaned using the 8500-00-0001MZ One-Click Cleaner.

PART NUMBER	Description
FOCIS Flex	See section "FOCIS Flex Fibre Optic Connector Inspection System"
DFS1-01-0002MR	DFS1 adapter tip: Universal 2.5 mm tip for APC ferrule connector (Tip ID: U25A)
FFLX-01-A25	FOCIS Flex adapter tip: Universal 2.5 mm, APC ferrule adapter tip
8500-00-0001MZ	One-Click Cleaner SC, ST, FC (500+ cleans)



FTS2



FTS-20C



Headset

FTS2 Fibre Optic Talk Sets (Last Time Buy)

Fibre Optic Talk Sets are an inexpensive solution to meet your communication needs when testing multimode or singlemode fibre optic cables. Designed for voice communication over spare fibres, they provide full duplex, hands-free operation.

The FTS2 model is for long-range singlemode applications. This model includes a multiparty communication feature, which provides the connection of two talk sets at a common site to extend the range or to include three or more persons in the conversation. The FTS2 output connectors accept thread-on adapters. Specify connector type (e.g. FTS2-1310-SC). See table "FTS2 Connector Adapters" for available adapters.

FTS2 comes with a carry case and protective rubber boot. AC adapters are available, see table "FTS Accessories".

Model	Wavelength (nominal)	Fibre Type & Dynamic Range (dB)	Output	Available Connector Types	Power	Features		
						One Fibre	Digital Modulation	Multiparty
FTS2 – 1310	1310 nm	(SM) - 45 (MM) - 20 ^a	Class I	FC, SC, ST, LC	(4) AA, AC	◆	◆	◆
FTS2 – 1550	1550 nm	(SM) - 45 (MM) - 20 ^a	Class I	FC, SC, ST, LC	(4) AA, AC	◆	◆	◆

Note:

a. Typical.

FTS Accessories

PART NUMBER	Description	FTS1	FTS2
1300-10-0102	Headset and adapter	◆	◆
4050-00-0911	AC adapter 90-264VAC/9VDC	◆	◆
8500-10-0900	FTS-20C clip-on coupler, FC connector only (for FTS2 only)		◆

FTS2 Connector Adapters

PART NUMBER	Description
2900-50-0002MR	FC adapter
2900-50-0003MR	SC adapter
2900-50-0004MR	ST adapter
2900-50-0006MR	LC adapter
8800-00-0072PR	Universal flip-top dust cap for UCI outputs

Adapter Caps

Adapter Caps for OPM Ports, OFS300-200, and VS300

AFL standard thread-on adapter caps are used to mate non-angled single-fibre and dual-fibre connectors to optical power meter ports on OPM/CSM series power meters, C850/M650 series OTDRs, and inspection ports on OFS300-200C and VS300 microscopes.

PART NUMBER	Description
8800-00-0214	2.5 mm Universal (accepts FC, SC, and ST ferrules)
8800-00-0224	1.25 mm Universal (accepts LC and MU ferrules)
8800-00-0200	FC
8800-00-0209	SC
8800-00-0202	ST®
8800-00-0225	LC simplex only
8800-00-0273PR	LC duplex only
8800-00-0221	E-2000
8800-00-0226	MU simplex
8800-00-0219	2.5 mm open Universal. Accepts SC duplex, OptiTap connector for measuring optical power.
8800-00-0230	MT-RJ (A side only). When used for loss testing, "A side only" adapter verifies system polarity
8800-00-0231	MT-RJ (A side or B side)
8800-00-0203	SMA
8800-00-0201	D4
8800-00-0204	Biconic
8800-00-0211	DIN 47256

Notes:

- a. For Inspecting backplane and duplex connectors with 1.25 mm ferrules such as LC and MU. Not recommended for measuring optical power.
- b. For Inspecting backplane and duplex connectors with 2.5 mm ferrules such as FC, SC, and ST. Not recommended for measuring optical power (except OptiTap).

PART NUMBER	Description
8800-00-0212	Radial PFO/VFO
Adapters for Plastic Optical Fibre (POF)	
8800-00-0223	1.0 mm bare fibre (plastic)
8800-00-0271PR	HP-HFBR-45XX POF Universal

Adapter Caps for OFS300-200 and VS300 Only

AFL thread-on angled and multifibre adapter caps are used to mate angled single-fibre as well as angled or non-angled multifibre connectors to our OFS 300-200C and VS300 microscopes. Do not use the following adapter caps with our optical power meters or other test sets to measure optical power.

PART NUMBER	Description
8800-00-0220	Angled SC
8800-00-0218	Angled FC
8800-00-0229	Angled E-2000
8800-00-0234	MTP®/MPO angled ferrule (8°), typically SM
8800-00-0233	MTP®/MPO flat ferrule (0°), typically MM
8800-00-0236	1.25 mm open Universal ^a
8800-00-0219	2.5 mm open Universal ^b
8800-00-0235	SMC 0°
8800-00-0244	1.6 mm ferrule (pin)
8800-00-0248	2.0 mm ferrule (pin)
8800-00-0227	EC (Radial)
8800-00-0265	1.25/2.5 mm Universal sliding (2-position) adapter

Accessories

Encircled Flux (EF) Modal Conditioners



Encircled Flux Modulator

Industry specifications TIA-526-14-B and IEC 61280-4-1 Ed. 2.0 define multimode test launch conditions required for testing multimode networks. Modal conditioners provide a convenient and reliable means of bringing multimode sources into compliance with encircled flux specification requirements. Modal Conditioners are available in both 50 micron and 62.5 micron configurations. Each conditioner is supplied with one meter pigtailed.

PART NUMBER	Description: Fibre Size, Connectors
TLL-S3FCFC2M-EF	50/125 µm, FC input to FC output, 2 m
TLL-S6FCFC2M-EF	62.5/125 µm, FC input to FC output, 2 m
TLL-S3SCSC2M-EF	50/125 µm, SC input to SC output, 2 m
TLL-S6SCSC2M-EF	62.5/125 µm, SC input to SC output, 2 m
TLL-S3SCLC2M-EF	50/125 µm, SC input to LC output, 2 m
TLL-S6SCLC2M-EF	62.5/125 µm, SC input to LC output, 2 m

Accessories


**EF Compliant Multimode Test Leads – Tail (50/125 µm - 2 meters)
(for use with Rogue, OLSx and CSSx Light Source Series)**

PART NUMBER	Description
TLT-S3FCFC2M	FC-FC, 2 m
TLT-S6FCFC2M	FC-FC, 2 m
TLT-S3SCSC2M	SC-SC, 2 m
TLT-S6FCFC2M	SC-SC, 2 m
TLT-S3SCLC2M	SC-LC, 2 m
TLT-S6SCLC2M	SC-LC, 2 m

Singlemode Test Leads – Launch (9/125 µm - 2 meters)

PART NUMBER	Description
TLL-S1FCFC2M	FC/FC, 2 m
TLL-S1FCST2M	FC/ST, 2 m
TLL-S1FCSC2M	FC/SC, 2 m
TLL-S1SCST2M	SC/ST, 2 m
TLL-S1LCSC2M	LC/SC, 2 m
TLL-S1SCSCM	SC/SC, 2 m

Singlemode Test Leads – Tail (9/125 µm - 2 meters)

PART NUMBER	Description
TLT-S1FCFC2M	FC/FC, 2 m
TLT-S1FCST2M	FC/ST, 2 m
TLT-S1FCSC2M	FC/SC, 2 m
TLT-S1SCST2M	SC/ST, 2 m
TLT-S1LCSC2M	LC/SC, 2 m
TLT-S1SCSCM	SC/SC, 2 m

Bare Fibre Test Accessories

PART NUMBER	Description
AFC-DVT-S1	Divot™ Bare Fibre Tester - FC Singlemode
AFC-DVT-S3	Divot™ Bare Fibre Tester - SC Singlemode
AFC-DVT-RC12	Divot™ Replacement OCC Cartridge (pack of 12)

Mating Adapters (Bulkheads)

All adapters listed here meet singlemode mechanical tolerance requirements and therefore are recommended for both multimode and singlemode testing.

PART NUMBER	Description
ADPT-FC-DDH-MYL	FC/FC
ADPT-ST-DDH-MYL	ST/ST
ADPT-SCFC-STF-MBK	SC/FC
ADPT-SC-RDF-BU	SC/SC
ADPT-SCST-RDF-BU	SC/ST
ADPT-MTP-SCRDF-BK	MPO/MTP (key UP/key DOWN), BLACK

Return Loss Test Sets Accessories

PART NUMBER	Description
2475-20-0001MZ	Index Matching Block – simplifies return loss measurements (set of 5)

Link Loss Test Lead Kits

PART NUMBER	DESCRIPTION
Duplex Link Loss Test Lead Kits	
TLK-D6-SC	Test Lead Kit, Duplex OM1 for SC Testing 2 x 62.5 µm OM1 Simplex TLL Launch Test Leads 2 x 62.5 µm OM1 Simplex TLT Tail Test Leads Launch 2M SC/SC with Tail 2M SC/SC
TLK-D6-LC	Test Lead Kit, Duplex OM1 for LC Testing 2 x 62.5 µm OM1 Simplex TLL Launch Test Leads 2 x 62.5 µm OM1 Simplex TLT Tail Test Leads, Launch 2M SC/LC with Tail 2M LC/LC
TLK-D3-SC	Test Lead Kit, Duplex OM3/4 for SC testing 2 x 50 µm OM3/4 Simplex TLL Launch Test Leads 2 x 50 µm OM3/4 Simplex TLT Tail Test Leads Launch 2M SC/SC with Tail 2M SC/SC
TLK-D3-LC	Test Lead Kit, Duplex OM3/4 for LC testing 2 x 50 µm OM3/4 Simplex TLL Launch Test Leads 2 x 50 µm OM3/4 Simplex TLT Tail Test Leads Launch 2M SC/LC with Tail 2M LC/LC
TLK-D1-SC	Test Lead Kit, Duplex Singlemode for SC testing 2 x OS1/2 Duplex TLLT Launch/Tail Test Leads Launch 2M SC/SC, Tail 2M SC/SC
TLK-D1-LC	Test Lead Kit, Duplex Singlemode for LC testing 2 x OS1/2 Duplex TLLT Launch/Tail Test Leads Launch 2M SC/LC, Tail 2M LC/LC
TLK-D1-SCA	Test Lead Kit, Duplex Singlemode for SCA testing Launch 2M SC/SCA, Tail 2M SCA/SCA

- TLKs come with application notes and lint free wipes (x 8).
- TLL, TLT, TLC and TLLT lengths specified by AFL (recommended). For custom lengths, leads must be between 1 m - 5 m to comply with AZ/NZS ISO/IEC 14763.3
- Check with test equipment manufacturer for any special test cord length requirements.
- For custom test leads and replacements, contact your local AFL office for assistance.

PART NUMBER	DESCRIPTION
Simplex Link Loss Test Lead Kits	
TLK-S1-SC	Test Lead Kit, Simplex Singlemode for SC testing 1 x OS1/2 Simplex TLL Launch Test Lead 1 x OS1/2 Simplex TLT Tail Test Lead Launch 2M SC/SC, Tail 2M SC/SC
TLK-S1-LC	Test Lead Kit, Simplex Singlemode for LC testing 1 x OS1/2 Simplex TLL Launch Test Lead 1 x OS1/2 Simplex TLT Tail Test Lead Launch 2M SC/LC Tail 2M LC/LC
TLK-S1-SCA	Test Lead Kit, Simplex Singlemode for SCA testing 1 x OS1/2 Simplex TLL Launch Test Lead 1 x OS1/2 Simplex TLT Tail Test Lead Launch 2M SC/SCA, Tail 2M SCA/SCA
Duplex Link Loss Test Lead Kits – EF Modal Controller	
TLK-D3-EF-SC	Test Lead Kit, Duplex OM3/4 Encircled Flux for SC testing 2 x 50 µm OM3/4 Simplex Encircled Flux TLL Launch Test Leads 2 x 50 µm OM3/4 Simplex TLT Tail Test Leads Launch 2M SC/SC with EF Modal Controller, Tail 2M SC/SC
TLK-D3-EF-LC	Test Lead Kit, Duplex OM3/4 Encircled Flux for LC testing 2 x 50 µm OM3/4 Simplex Encircled Flux TLL Launch Test Leads 2 x 50 µm OM3/4 Simplex TLT Tail Test Leads Launch 2M SC/LC with EF Modal Controller, Tail 2M LC/LC
TLK-D6-EF-SC	Test Lead Kit, Duplex OM1 Encircled Flux for SC Testing 2 x 62.5 µm OM1 Simplex Encircled Flux TLL Launch Test Leads 2 x 62.5 µm OM1 Simplex TLT Tail Test Leads Launch 2M SC/SC with EF Modal Controller, Tail 2M SC/SC
TLK-D6-EF-LC	Test Lead Kit, Duplex OM1 Encircled Flux for LC Testing 2 x 62.5 µm OM1 Simplex Encircled Flux TLL Launch Test Leads 2 x 62.5 µm OM1 Simplex TLT Tail Test Leads, Launch 2M SC/LC with EF Modal Controller, Tail 2M LC/LC

Fixed Price Encircled Flux Test Lead Repair

PART NUMBER	Description
TLR-xy-EF-zz	Duplex Encircled Flux Test Lead Kit Repair
Test Lead Repair includes: re-termination of 2 x EF TLL cords, replacement of 2 x TLT cords, 8 x lint free wipes.	
x = Simplex or Duplex (S / D), y = OM1 or OM3/4 (1 / 3), zz = Connector (SC / LC) i.e. TLK-D3-EF-LC	

Note: Reference grade connectors used for re-termination of SC and LC connector types. Re-termination and replacement performed to original cord configuration.

Cleaning Supplies

A wide variety of pre-stocked kits offer a complete selection of fibre optic cleaning products for field cleaning of connector end-faces in fibre frames, adapters, and on jumpers. Each kit consists of a wall or rack mountable carry case, FCC2 cleaning fluid, and colour-coded instructions. Each VS300 Scope includes 2.5 mm Universal Cap. Each stick is double ended, designed for two (2) cleans.



FCP1 Kit

Wall/Rack Mountable Field Portable Cleaning Kits

PART NUMBER	Old NO.	CCTS-25-0900MZ for FC, SC, ST QTY=40, BLUE	CCTS-12-0900MZ for LC, MU QTY=40, GREEN	CCTS-16-0900MZ for D4, Mil socket QTY=40, ORANGE	CCTP-25-0900MZ for all connectors Qty=20, YELLOW	CCTX-MT-0900MZ for MTP, MPO, MPX Qty=20, PINK	CleTOP Type	VS300 Scope
FCP1-00-0900		1	1		2		A	
FCP1-00-0901		1			2		SB	
FCP1-00-0905		1	1	1	2		SB	
FCP1-00-0906		1	1	1	2			
FCP1-00-0907	FCP1-37A	3	1		1	1		
FCP1-00-0909	FCP1-25D	3			1			
FCP1-00-0914	FCP1-37C	2	1		1		SB	
FCP1-00-0915	FCP1-37D	3	1	1	4	1		
FCP1-00-0926PZ ^a		2	2				SB	
FCP1-00-0927PZ ^d		2	1		1		SB	
FCP1-01-0902		1	1	1	2		SB	1 ^a
FCP1-01-0903		1	1	1	2			1 ^a
FCP1-01-0904		2	2		2		A	1
FCP1-01-0905		1	1		2	1	SB	1 ^a

Hard Carry Case Cleaning Kits

PART NUMBER	CCTS-25-0900MZ for FC, SC, ST QTY=40, BLUE	CCTS-12-0900MZ for LC, MU QTY=40, GREEN	CCTP-25-0900MZ for all connectors QTY=20, YELLOW	CleTOP Type	VS300 Scope
FCP1-02-0901PF ^d	3	3	2	SB	1 ^b
FCP1-02-0902PF ^{c, d}	3	3	2	SB	1 ^b
C182120	AFL Connector/Adapter Cleaning Kit. Ships in a hard carry case with: CleTOP –SB (Qty = 1), replacement reel for CleTOP –SB (Qty = 1), ACT-01 cleaning tips for 2.5 mm adapters (Qty = 20), FibreWipes (Qty = 2 tubs), can of FCC2 Enhanced Fibre Connector Cleaner and Preparation Fluid (Qty = 1).				

Notes:

- a. Includes 2.0 mm and 1.25 mm Universal cap.
- b. Includes 1.25 mm Universal cap.
- c. Includes One-Click SC/ST/FC and One-Click LC/MU.
- d. Includes a tub of FibreWipes.



FCP2-00-0900



FCP2-01-0900



FCP2-02-0900

Field Portable Duffle Bag Cleaning Kits

FCP2 kits offer a complete selection of optical cleaning products for field cleaning of connector end-faces in a convenient duffle bag style carry case. These popular kits are now available with inspection and loss testing options. All kits combine **Base Package** plus various cleaning accessories as well as inspection and test equipment. **Base Package includes: FCC2 cleaning fluid, FibreWipes, Cletop SB, One-Clicks for SC, ST, FC, LC, MU connectors.**

- **Basic Cleaning Kit:** Includes **Base Package**.
- **Basic Cleaning and Inspection Kit:** Adds inspection capabilities to the Basic Cleaning Kit with either OFS300-200 or FOCIS Flex inspection probe.
- **Basic Cleaning, Inspection and Test Kit:** Adds inspection (OFS300-200 inspection scope) along with multimode and singlemode loss test capabilities (CSM1-2 power meter, CSS1-MM multimode light source, CSS1-SM singlemode light source).

PART NUMBER	Description
FCP2-00-0900	Basic Cleaning Kit with carry case. Includes Base Package.
FCPR-00-0900	Refill for Basic Cleaning Kit (no carry case). Includes Base Package.
FCP2-00-0901	Basic Cleaning Kit with MPO cleaner and carry case. Includes: Base Package, One-Click for MPO connectors.
FCP2-01-0900	Basic Cleaning and Inspection Kit with carry case. Includes: Base Package, OFS300-200 inspection scope.
FCP2-02-0900	Basic Cleaning, Inspection and Test Kit with carry case. Includes: Base Package, OFS300-200 inspection scope, CSM1-2 power meter, CSS1-MM 850/1300 nm light source, and CSS1-SM 1310/1550 nm light source.
FCP2-02-0900N	Basic Cleaning and FOCIS Flex Inspection Kit (No Tips) with carry case. Includes: Base Package, FOCIS Flex inspection probe, no tips, TRM® 2.0 Basic.
1400-01-0095PZ	Field portable duffle bag cleaning supplies carry case.



FCC2 85 g Can

NEW



FCC2 283 g Can

NEW



FCC3 Cleaning Pen



CCT Cleaning Tips

Cleaning Fluids and CCT Cleaning Sticks

For best results, use CCT cleaning sticks with FCC2 fluid!

PART NUMBER	Description
FCC2 Enhanced Formula Fibre Connector Cleaner and Preparation Fluid - optical quality cleaning fluid for cleaning connector end-faces and cleaning optical fibre (after stripping) before field termination or fusion splicing. Nonflammable, not hazardous, not regulated (including air-cargo).	
FCC2-00-0902	Enhanced Formula, (85 g) Fibre Connector Cleaner and Preparation Fluid (1 can)
FCC2-00-0903	Enhanced Formula, (85 g) Fibre Connector Cleaner and Preparation Fluid (case of 12 cans)
FCC2-10-0902	Enhanced Formula, (283 g) Fibre Connector Cleaner and Preparation Fluid (1 can)
FCC2-10-0903	Enhanced Formula, (283 g) Fibre Connector Cleaner and Preparation Fluid (case of 12 cans)
FCC3-00-PEN1	Debris Destroyer™ - Fibre Optic Cleaning Pen (1 pen)
Connector Cleaning Tips - Double-ended	
CCTP-25-0900MZ	For exposed 2.5 mm, 2.0 mm, 1.6 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers and male Mil C 38999 and 28876). Double-ended. Colour Code = Yellow.
CCTS-25-0900MZ	For 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters). Double-ended. Colour Code = Blue.
CCTS-12-0900MZ	For 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters). Double-ended. Colour Code = Green.
CCTS-16-0900MZ	For MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female Mil C 38999 and 28876 and MT-RJ both jumpers and adapters). Double-ended. Colour Code = Orange.
CCTX-MT-0900MZ	For Biconic and MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.). Double-ended. Colour Code = Pink.
CCT Tips are available in bulk packs of single-ended sticks. Blister packs of 50 sticks packaged in boxes of 6 blister packs (300 sticks).	
CCTP-25-0910MZ	For exposed 2.5 mm, 2.0 mm, 1.6 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers and male Mil C 38999 and 28876). Single-ended. Colour Code = Yellow
CCTS-25-0910MZ	For 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters). Single-ended. Colour Code = Blue
CCTS-12-0910MZ	For 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters). Single-ended. Colour Code = Green
CCTS-16-0910MZ	For MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female Mil C 38999 and 28876 and MT-RJ both jumpers and adapters). Single-ended. Colour Code = Orange
CCTX-MT-0910MZ	For Biconic and MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.). Single-ended. Colour code = Pink



Cletop -SB



Replacement Tape Type S



Cletop Type A



Cletop Type B



Cletop Type A and B top view



Cletop (ACT) Sticks



OPTIPOP-R



Cletop Cassette Cleaners

- **Cletop series:** Original version.
- **Cletop-S series:** Second generation cleaner with improved ergonomics and tape maintenance.
- **Type A and -SA:** Designed for single 2.5 mm ferrules (SC, FC, ST, and D4).
- **Type B and -SB:** Cleans SC, SC2, FC, ST, DIN, D4, MU, LC, MT, MPO/MTP without pins, MT-RJ without pins.

PART NUMBER	Description
Cletop -S Series	
8500-10-0020MZ	Cletop-SA with Blue Tape
8500-10-0029MZ	Cletop-SB with Blue Tape
8500-10-0016MZ	Cletop-SB with White Tape
8500-10-0021MZ	Replacement Tape Type S - Blue
8500-10-0017MZ	Replacement Tape Type S - White
8500-10-0046MZ	Cletop-SB White Tape (box of 5 cleaners, 8500-10-0016MZ)
8500-10-0047MZ	Replacement Tape Type S-White (box of 6 tapes, 8500-10-0017MZ)
8500-10-0041MZ	Replacement Tape Type S-Blue (box of 6 tapes, 8500-10-0021MZ)
Cletop Original Series	
8500-10-0027MZ	Cletop Type A with Blue Tape
8500-10-0011MZ	Cletop Type A with White Tape
8500-10-0028MZ	Cletop Type B with Blue Tape
8500-10-0014MZ	Cletop Type B with White Tape
8500-10-0032MZ	Cletop for MT-RJ with pins (White Tape)
8500-10-0033MZ	Cletop for MPO/MTP with pins (White Tape)
8500-10-0012MZ	Replacement Tape Type A and B – Blue
8500-10-0015MZ	Replacement Tape Type A and B – White
8500-10-0042MZ	Replacement Tape Type A and B – Blue (box of 6 tapes, 8500-10-0012MZ)

Cletop (ACT) Cleaning Sticks

PART NUMBER	Description
8500-10-0024MZ	ACT-01 2.5 mm single-ended sticks (box of 200 - 40 bags of 5 sticks per bag). For FC, SC, ST, and D4.
8500-10-0022MZ	ACT-02 1.25 mm single-ended sticks (box of 200 - 40 bags of 5 sticks per bag). For LC and MU.
8500-10-0023MZ	ACT-03 2.0 mm single-ended sticks (box of 200 - 40 bags of 5 sticks per bag). For Military and High Definition Video (LEMO).
8500-10-0030MZ	2.0/2.5 mm double-ended sticks (box of 100 - 100 bags of 1 stick per bag). For Military and High Definition Video (LEMO).

OPTIPOP-R Cassette Cleaners

- Cleans the exposed ferrule end-faces of fibre optic connectors
- More than 400 cleans per tape
- Replacement tape reels reduce the cost per clean

PART NUMBER	Description
8500-11-0050MZ	OPTIPOP-R1, one slot, SC, FC, ST, MU, LC, MT, MPO/MTP no pins, MT-RJ no pins
8500-11-0051MZ	OPTIPOP-R2, two slots, SC, FC, ST, simplex and duplex MU and LC
8500-11-0052MZ	OPTIPOP-R3, one slot, for MPO/MTP with pins (male)
8500-11-0053MZ	OPTIPOP-R4, one slot, for MT-RJ with pins (male)
8500-11-0057MZ	OPTIPOP-RR, replacement reel (1 reel)
8500-11-0058MZ	OPTIPOP-RS, replacement reels (6 reels per set)



One-Click Cleaners



8500-20-0900 kit

One-Click™ Cleaners

U.S. Patent Numbers 7,212,719 and 8,087,118

PART NUMBER	Description	Qty
8500-05-0001MZ	One-Click Cleaner SC, ST, FC (500+ cleans)	1 Cleaner
8500-05-0002MZ	One-Click Cleaner MU/LC (500+ cleans)	1 Cleaner
8500-05-0004MZ	One-Click Cleaner ODC, outdoor connector (500+ cleans)	1 Cleaner
8500-05-0005MZ	One-Click Cleaner Mini-100 SC, ST, FC (100+ cleans)	1 Cleaner
8500-05-0006MZ	One-Click Mini-100 MU/LC (100+ cleans)	1 Cleaner
8500-05-0009MZ	One-Click Cleaner Mini-500 SC, ST, FC (500+ cleans)	1 Cleaner
8500-05-0010MZ	One-Click Cleaner Mini-500 MU/LC (500+ cleans)	1 Cleaner
8500-05-0007MZ	One-Click Ultra Cleaner 2.5 (enlarged cleaning) SC, ST, FC (500+ cleans)	1 Cleaner
8500-05-0008MZ	One-Click Cleaner D-LC, Duplex LC (2 x 500+ cleans)	1 Cleaner
8500-05-0030MZ	One-Click Cleaner MPO (500+ cleans)	1 Cleaner
8500-05-0013MZ	One-Click Cleaner MPO-16 (500+ cleans)	1 Cleaner
8500-05-0031MZ	One-Click Cleaner MT-RJ (500+ cleans)	1 Cleaner
8500-05-0021MZ	One-Click Cleaner SC, ST, FC (box of 5 units)	5 Cleaners
8500-05-0022MZ	One-Click Cleaner MU/LC (box of 5 units)	5 Cleaners
8500-05-0025MZ	One-Click Cleaner Mini-100 SC, ST, FC (box of 5 units)	5 Cleaners
8500-05-0026MZ	One-Click Cleaner Mini-100 MU/LC (box of 5 units)	5 Cleaners
8500-05-0027MZ	One-Click Ultra Cleaner 2.5 SC, ST, FC (box of 5 units)	5 Cleaners
8500-05-0023MZ	One-Click Cleaner MPO-16 (box of 5 units)	5 Cleaners

Cleaning Accessories for Test Kits

Accurate test results require clean optical connectors – cleaning kits below are designed to support OTDR and Loss testing. A great accessory for maintaining new test equipment measurement integrity!

PART NUMBER	Description	Includes
8500-20-0900	Wet Cleaning Kit for SC/FC/ST/LC connectors	<ul style="list-style-type: none"> 8500-10-0016MZ, Cletop-SB CCTS-25-0900MZ, connector Cleaning Tips for 2.5 mm ferrule in adapters or sockets (SC, FC, ST in adapters), Blue (40 sticks) CCTS-12-0900MZ, connector Cleaning Tips for 1.25 mm ferrule in adapters or sockets (LC, MU in adapters), Green (40 sticks) FCC2-00-0902, Enhanced Fibre Connector Cleaner and Preparation Fluid, QTY = 1 can
8500-20-0901	Dry Cleaning Kit	<ul style="list-style-type: none"> 8500-10-0016MZ, Cletop -SB. 8500-10-0024MZ, ACT-01 2.5 mm adapter cleaning tips, QTY = 200
8500-20-0902MZ	Fibre Cleaning Refill Kit	<ul style="list-style-type: none"> 9000-03-0025MZ, FibreWipes™, QTY = 2 tubs FCC2-00-0902, Enhanced Fibre Connector Cleaner and Preparation Fluid, QTY = 1 can



CleanWipes-400



FibreWipes Tub

Optical Grade Cleaning Wipes

PART NUMBER	Description
9000-03-0029MZ	CleanWipes - box with 400 optical quality wipes
9000-03-0030MZ	CleanWipes - box with 3200 optical quality wipes
9000-03-0025MZ	FibreWipes™ - optical quality wipes in rugged mini tub, 90 wipes per tub
9000-03-0026MZ	FibreWipes - optical quality wipes in rugged mini tub, 90 wipes per tub, case of 24 tubs
9000-03-0027MZ	FibreAide 1 - lint free wipe for single use and harsh environment connector cleaning, case of 600 wipes (12-50 pack bags)
9000-03-0028MZ	FibreAide 1 - lint free wipe for single use and harsh environment connector cleaning, 1 bag of 50 wipes

Other Cleaning Supplies

PART NUMBER	Description	Qty
8500-10-0103	Alco pads	320 Pads
9000-03-0002	Kimwipes® – 280 wipes, 4.4" x 8.4" each	1 Box

Calibration Services

Servicing your valuable AFL Test & Inspection equipment at authorised AFL calibration facilities ensures you are getting the most out of your equipment and it is performing accurately.

In keeping with ISO certification guidelines, AFL recommends the following calibration intervals for AFL Test & Inspection products:

- 3-year Calibration Interval for OPM, CSM1, OLS, CSS1 and VFI products
- 1-year Calibration Interval for all other AFL Test & Inspection products

Calibration and Repair Facilities

AFL has an authorised calibration/repair facility for AFL products in the USA, Europe and Asia Pacific. Please contact customer service for a return authorisation number prior to sending your AFL test equipment in for repair or calibration.

Fujikura Europe LTD is an Authorised European Repair and Calibration facility for AFL Test and Inspection products and should be contacted directly for service.

AFL has an Authorised Australia & New Zealand Calibration facility for AFL Test and Inspection products and should be contacted directly for product calibrations.

Warranty:

- OPM, OLS, OFI-200, OFI-400, and VFI products are warranted against defective material and workmanship for a period of (5)* five years from the date of delivery to the end user.
- All other AFL products are warranted against defective material and workmanship for a period of (1) one year from the date of delivery to the end user.
- Any product that is found defective within the warranty period will, at the discretion of AFL, be repaired or replaced. Warranty will be voided if the product has been repaired or altered by other than an authorised AFL product repair facility, if the void sticker has been compromised, or which have been subject to misuse, negligence, or accident. In no case shall AFL liabilities exceed the original purchase price.

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Fibre Cable



Cable Assemblies



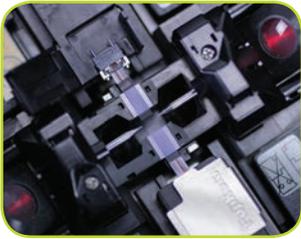
Enclosures & Racks



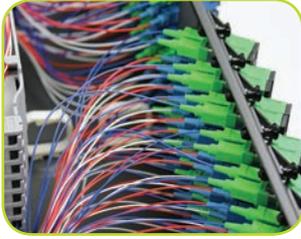
Test, Inspect & Locate



MTP Cabling System



Fibre Termination & Splicing



Fibre Passive Devices



Copper Cabling Systems



Harsh Environment



Networking & Media Conversion

Our exceptional products, innovative solutions and engineering expertise make connections possible. AFL provides industry-leading solutions, products and services to the energy, service provider, enterprise and industrial markets as well as a number of emerging markets. Whether you need to build or upgrade a network or apply the latest fibre optic technology, AFL connects you with the solutions that fit your every need.



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