



TEST & INSPECTION

OTDRs & Fiber Characterization | Fiber Inspection & Cleaning | Optical Loss Testing | Fiber Identification



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OTDRS & FIBER CHARACTERIZATION



OTDR Selection Guide



FlexScan® FS300

FlexScan® FS200

Model	Point-to-Point Networks/Fiber Type						FTTx PON	OTDR Performance										Reporting			Inspection
	MMF/SMF		SMF		SMF			Wavelengths (nm)	Dynamic Range (dB)	Dead zone EDZ/ADZ (m)	SmartAuto	LinkMap®	FlexPress	MPO Switch Control	OLS	OPM	VFL	TRM® 3.0	FlexScan App		
	Data Center	LAN	Core	Metro	Access	Dark														Live	
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		

FlexScan FS300 Quad OTDR

Easily Locate and Resolve Optical Network Faults



Award-winning all-in-one solution that automates test setup, shortens test time and simplifies results interpretation.

Specifications

- Wavelengths: MM 850/1300, SM 1310/1550
- Network Type: Point-to-Point and PON up to 1:64
- Dynamic Range: MM $\geq 29/29$ dB, SM $\geq 37/36$ dB
- Event Dead Zone: ≤ 0.8 m
- Range Settings: MM 250 m to 30 km, SM 250 m to 240 km
- Data Points: Up to 300,000
- Internal Storage: 4 GB ($\geq 1,000$ traces)

The FlexScan FS300 OTDR enables both expert and novice technicians to quickly and accurately locate, identify and measure components and faults on either single-mode or multimode optical networks.

The pocket-sized FlexScan FS300 includes an integrated optical light source, power meter and visual fault locator (VFL). It can be easily coupled with AFL's award-winning FOCIS inspection probes or optical fiber identifiers (OFI) to give technicians everything they need to locate and resolve any optical network issues.

FlexScan SmartAuto tests utilize multi-pulse acquisition to obtain high-resolution without sacrificing measurement range. Test results are clearly displayed on the large 5-inch touchscreen with color-coded LinkMap[®] icons providing network configuration and pass/fail status at a glance.

Results can be shared by generating professional reports using the included Windows-compatible TRM[®] 3.0 Test Results Manager software. The results used for TRM reports can be transferred from FlexScan by USB cable or wirelessly via the FlexScan App.





FlexScan® OTDRs

FS300 Quad OTDR with SmartAuto® and LinkMap®

All the benefits of FlexScan **PLUS**...

- Quad OTDR (850/1300 multimode and 1310/1550 single-mode, including FTTH PON test)
- Larger, higher resolution display (5", 800 x 480)
- Gesture-recognition touchscreen (swipe-to-pan, pinch-to-zoom)
- Integrated Print-to-PDF
- User-replaceable, longer life battery

FlexScan FS300 models are available in four kit configurations: Basic, PLUS, PRO and BIPM. All kits include FS300 with AC charger, battery, carry strap, SC/2.5 mm connector adapters, TRM® 3.0, quick reference user guide and carry case. PLUS Kits add 150 m fiber 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. BIPM kits expand on PRO Kits by adding a bend-insensitive fiber identifier with optical power meter.

FlexScans equipped with Bluetooth option (W1) support Bluetooth transfer of results via FlexScan App for remote reporting using TRM 3.0. The FlexScan App is available as a free download from Google play store.

AFL NO.	OTDR/OLS λ (nm)	PON OTDR	OLS/OPM	WiFi	Bluetooth				
FS300-325-[Kit]-P0-W0	850/1300 MM; 1310/1550 SM	◆							
FS300-325-[Kit]-P0-W1	850/1300 MM; 1310/1550 SM	◆		◆	◆				
FS300-325-[Kit]-P1-W0	850/1300 MM; 1310/1550 SM	◆	◆						
FS300-325-[Kit]-P1-W1	850/1300 MM; 1310/1550 SM	◆	◆	◆	◆				

FlexScan FS300 Quad OTDR Kit Configuration - [KIT]

[KIT]	FS300 FlexScan Kit Configuration
BAS	Basic kit with soft case, TRM® 3.0 Basic, USB cable ^a
PLUS	PLUS kit adds 150 m SMF & MMF fiber rings, One-Click Cleaner, TRM 3.0 Advanced
PRO	PRO kit adds FOCIS Flex, 2 adapter tips, 150 m SMF & MMF fiber rings, One-Click Cleaner, TRM 3.0 Advanced
BIPM	BIPM Complete kit adds OFI-BIPM fiber identifier with power meter, FOCIS Flex, 2 adapter tips, 150 m SMF & MMF fiber rings, One-Click Cleaner, TRM 3.0 Advanced

Notes:

- a. Results can be transferred from FlexScan OTDR to TRM using USB cable, or performed wirelessly (W1 option) after downloading free FlexScan App from Google play store.

FlexScan® FS300 Order Entry

FS300-[MOD]-[KIT]-[Pn]-[Wn][H]-[C]-[LNG]-[AC]-[SMFR]-[MMFR]-[TIP] where:

[MOD]	FS300 FlexScan OTDR Configuration
325	Quad OTDR (850/1300 MMF and 1310/1550 SMF Pt-to-Pt & PON)

[KIT]	FS300 FlexScan Kit Configuration
BAS	Basic kit with soft case, TRM® 3.0 Basic, USB cable ^a
PLUS	PLUS kit adds 150 m SMF & MMF fiber rings, One-Click Cleaner, TRM 3.0 Advanced
PRO	PRO kit adds FOCIS Flex, 2 adapter tips, 150 m SMF & MMF fiber rings, One-Click Cleaner, TRM 3.0 Advanced
BIPM	BIPM Complete kit adds OFI-BIPM fiber identifier with power meter, FOCIS Flex, 2 adapter tips, 150 m SMF & MMF fiber rings, One-Click Cleaner, TRM 3.0 Advanced

[Pn]	Optical Light Source (OLS) & Optical Power Meter (OPM)
P0	No OLS, no OPM
P1	850/1300 MM; 1310/1550 SM Source & Power Meter

[Wn]	Bluetooth/WiFi Configuration
W0	No Bluetooth or WiFi
W1^b	Includes WiFi and Bluetooth

[H]	Bluetooth/WiFi Configuration
Absent	Soft carry case
H	Hard carry case (Plus, Pro, BI, BIPM kits only)

[C]	OTDR / Source Connector Type
A	APC (recommended)
U	UPC

[LNG]	Language Option
ENG	English
CHS	Simplified Chinese
CHT	Traditional Chinese
CZE	Czech
DEU	German
DNK	Danish
FIN	Finnish
FRA	French

[LNG]	Language Option
ITA	Italian
JPN	Japanese
KOR	Korean
NOR	Norwegian
POL	Polish
POR	Portuguese
SPA	Spanish
TUR	Turkish

[AC]	Destination Country	AC Plugs
US	USA	2-pin, US
EU	European Union	2-pin, EU
UK	United Kingdom	2-pin, UK
CN	China, Australia	2-pin, SAA

[SMFR]	150 m SMF Fiber Ring
Absent	N/A in Basic kits
SC/SC	FR1-SM-150-SC-SC
SC/FC	FR1-SM-150-SC-FC
SC/LC	FR1-SM-150-SC-LC
SC/ST	FR1-SM-150-SC-ST
SC/ASC	FR1-SM-150-SC-ASC
SC/AFC	FR1-SM-150-SC-AFC
SC/ALC	FR1-SM-150-SC-ALC
LC/LC	FR1-SM-150-LC-LC
LC/ASC	FR1-SM-150-LC-ASC
LC/ALC	FR1-SM-150-LC-ALC
ASC/FC	FR1-SM-150-ASC-FC
ASC/ST	FR1-SM-150-ASC-ST
ASC/ASC	FR1-SM-150-ASC-ASC
ASC/AFC	FR1-SM-150-ASC-AFC
ASC/ALC	FR1-SM-150-ASC-ALC
ALC/ALC	FR1-SM-150-ALC-ALC
FC/FC	FR1-SM-150-FC-FC
FC/ST	FR1-SM-150-FC-ST
FC/LC	FR1-SM-150-FC-LC
FC/AFC	FR1-SM-150-FC-AFC
AFC/AFC	FR1-SM-150-AFC-AFC
ASC-AE2000	FR1-SM-150-ASC-AE2000
SC-E2000	FR1-SM-150-SC-E2000

[MMFR]	150 m OM1 62.5 μm MMF Fiber Ring
Absent	N/A in Basic kits
SC/ST1	FR1-M6-150-SC-ST
SC/SC1	FR1-M6-150-SC-SC
ST/ST1	FR1-M6-150-ST-ST
ST/LC1	FR1-M6-150-ST-LC
SC/LC1	FR1-M6-150-SC-LC

[MMFR]	150 m OM2 50 μm MMF Fiber Ring
Absent	N/A in Basic kits
SC/ST2	FR1-M5-150-SC-ST
SC/SC2	FR1-M5-150-SC-SC
ST/ST2	FR1-M5-150-ST-ST
ST/LC2	FR1-M5-150-ST-LC
SC/LC2	FR1-M5-150-SC-LC

[MMFR]	150 m OM3/4/5 - compatible Fiber Ring
SC/ST3	FR1-OM3-150-SC-ST
SC/SC3	FR1-OM3-150-SC-SC
ST/ST3	FR1-OM3-150-ST-ST
ST/LC3	FR1-OM3-150-ST-LC
SC/LC3	FR1-OM3-150-SC-LC

[TIP] ^b	FOCIS Flex Tips and Cleaning (PRO, BI, BIPM Kits only)
Absent	Option not available in Basic and PLUS kits
SC	SC-UPC bulkhead tip, 2.5 mm UPC ferrule tip, 2.5 mm One-Click
FC	FC-UPC bulkhead tip, 2.5 mm UPC ferrule tip, 2.5 mm One-Click
LC	LC-UPC bulkhead tip, 1.25 mm UPC ferrule tip, 1.25 mm One-Click
ASC	SC-APC bulkhead tip, 2.5 mm APC ferrule tip, 2.5 mm One-Click
AFC	FC-APC bulkhead tip, 2.5 mm APC ferrule tip, 2.5 mm One-Click
ALC	LC-APC bulkhead tip, 1.25 mm APC ferrule tip, 1.25 mm One-Click

Notes:

- Results can be transferred from FlexScan OTDR to TRM using USB cable, or performed wirelessly (W1 option) after downloading free FlexScan App from Google play store.
- FlexScans equipped with Bluetooth option (W1) support Bluetooth transfer of results via FlexScan App for remote reporting using TRM 3.0. The FlexScan App is available as a free download from Google play store.
- Additional FOCIS Flex adapter tips are available and may be ordered separately. See "FOCIS Series and DFS1 Adapter Tips" on page 18.



FlexScan[®] FS200

Award Winning Pocket-Sized Singlemode OTDR



Measure fiber attenuation and identify connectors, splices, cable ends & issues such as bends or breaks

Specifications

- Wavelengths: Single, dual, triple (1310, 1550, 1650 nm)
- Network Type: Point-to-Point and/or FTTH PON
- Dynamic Range: Up to 37 dB
- Range Settings: 250 m to 240 km
- Data Points: Up to 300,000
- Internal Storage: 4 GB (>1000 traces)
- Size: 86 x 160 x 43 mm
- Weight: 0.4 kg
- Battery Life: >12 hours, Telcordia test conditions
- Display: Color touchscreen 4.3 in LCD

The FlexScan FS200 is a family of performance-packed singlemode OTDRs which provide fast, accurate fiber characterization and fault location for point-to-point and FTTH PON networks.

FlexScan FS200 OTDRs automate test setup, simplify results interpretation, and shorten test time, all at an affordable price point. AFL's SmartAuto[®] mode requires just the push of a button to test the network. Results are clearly displayed on the large touchscreen using color-coded LinkMap[®] icons that show network configuration and pass/fail status at a glance. Our new Flexpress[®] mode completes dual-wavelength tests in under 5 seconds – 10 x faster than other OTDRs!

The integrated light source, power meter and VFL, along with an optional connector inspection scope, provide both expert and novice technicians everything they need to locate and resolve optical network issues. Results may be stored internally or externally and easily shared via USB or Bluetooth. Included Windows-compatible TRM[®] 3.0 Test Results Manager software quickly generates easy-to-understand reports. The results used for TRM reports can be transferred from FlexScan by USB cable or wirelessly via the FlexScan App.



April 15, 2020



FlexScan OTDR



FlexScan Basic Kit



FlexScan Plus Kit



FlexScan PRO Kit



FlexScan MPO Kit

FS200 SMF OTDR with SmartAuto®, FleXpress™ and LinkMap®

NEW FleXpress Free Upgrade Introductory Offer (\$395 value) good through 31-October, 2020!

Combining SmartAuto network-optimized event detection and analysis with its intuitive LinkMap view of the tested network, AFL's FlexScan OTDRs enable even novice technicians to quickly and easily troubleshoot or fully characterize optical fiber networks. Have dozens of fibers 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-fiber testing.

FlexScans equipped with Bluetooth option (W1) support Bluetooth transfer of results via FlexScan App for remote reporting using TRM 3.0. The FlexScan App is available as a free download from Google play store.

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

- **FS200-50B:** 1550 nm point-to-point troubleshooting OTDR
- **FS200-60:** 1650 nm live PON troubleshooting OTDR
- **FS200-100:** 1310/1550 point-to-point verification & troubleshooting OTDR
- **FS200-300:** 1310/1550 PON & point-to-point verification & troubleshooting OTDR with FleXpress & MPO Switch control
- **FS200-304:** 1310/1550/1650 PON & point-to-point verification & troubleshooting OTDR with FleXpress & MPO Switch control

AFL NO.	OTDR/Source λ (nm)	PON OTDR		OLS/OPM	BT/WiFi	FleXpress with MPO Switch					
		Dark	Live								
FS200-50B-[Kit]-P0-W0	1550					MPO only					
FS200-60-[Kit]-P0-W0	1650	◆	◆			MPO only					
FS200-100-[Kit]-P0-W0	1310/1550					MPO only					
FS200-100-[Kit]-P1-W1	1310/1550			◆	◆	MPO only					
FS200-300-[Kit]-P0-W1	1310/1550	◆			◆	◆					
FS200-300-[Kit]-P1-W1	1310/1550	◆		◆	◆	◆					
FS200-304-[Kit]-P0-W1	1310/1550/1650	◆	◆		◆	◆					
FS200-304-[Kit]-P1-W1	1310/1550/1650	◆	◆	◆	◆	◆					

FlexScan FS200 Kit Configuration - [KIT]

[KIT]	FS200 FlexScan Kit Configuration
BAS	Basic kit with soft case, TRM® 3.0 Basic, USB cable ^a
PLUS	PLUS kit adds 150 m SMF Fiber Ring, One-Click Cleaner, TRM 3.0 Advanced
PRO	PRO kit adds FOCIS Flex, 2 Adapter Tips, Fiber Ring, One-Click Cleaner, TRM 3.0 Advanced
BIPM	BIPM Complete kit adds OFI-BIPM fiber identifier with power meter, FOCIS Flex, 2 Adapter Tips, Fiber Ring, One-Click Cleaner, TRM 3.0 Advanced
MPO	Multi-fiber kit includes FlexScan plus MPO Switch, MPO launch cable, OTDR-to-Switch patch cord, OTDR-to-Switch USB cable, TRM 3.0 Advanced

Notes:

- a. Results can be transferred from FlexScan OTDR to TRM using USB cable, or performed wirelessly (W1 option) after downloading free FlexScan App from Google play store.

FlexScan® FS200 Order Entry

FS200-[MOD]-[KIT]-[PW]-[C]-[CC]-[LNG]-[AC]-[FR]-[TIP] where:

[MOD]	FS200 FlexScan OTDR Configuration
50	1550 nm only Troubleshooting OTDR
60	1650 nm only Live PON Troubleshooting OTDR
100	1310/1550 nm Verification & Troubleshooting OTDR
300	1310/1550 Pt-to-Pt & PON Verification & Troubleshooting OTDR
304	1310/1550/1650 Pt-to-Pt & PON Verification & Troubleshooting OTDR

[KIT]	FS200 FlexScan Kit Configuration
BAS	Basic kit with soft case, TRM® 3.0 Basic, USB cable ^a
PLUS	PLUS kit adds 150 m SMF Fiber Ring and One-Click Cleaner
PRO	PRO kit adds Fiber Ring, One-Click Cleaner, FOCIS Flex
BIPM	BIPM Complete kit adds OFI-BIPM fiber identifier with power meter to PRO Kit (requires P1-W1 option)
MPO	Multi-fiber kit includes FlexScan plus MPO Switch, MPO launch cable, OTDR-to-Switch patch cord, OTDR-to-Switch USB cable

[PW]	Power Meter / Wireless option
P0-W0	No Source, Power Meter, or Bluetooth/WiFi (-50B/60/100 only)
P0-W1 ^b	No Source, Power Meter; Includes Bluetooth/WiFi (FS200-300/304)
P1-W0	No Bluetooth/WiFi (FS200-304 only); Includes Source, Power Meter
P1-W1 ^b	Includes Source, Power Meter, Bluetooth/WiFi (all models except -50B)

[C]	OTDR / Source Connector Type
A	APC (recommended)
U	UPC

[CC]	Carry Case Option
S1	Large soft case for FS200, fiber ring, FOCIS Flex, OFI-BIPM, accessories
S2	Medium soft case for FS200, fiber ring, FOCIS Flex, accessories
H1	Hard carry case for FS200, fiber ring, FOCIS Flex, OFI-BIPM, accessories

[LNG]	Language Option
ENG	English
CHS	Simplified Chinese
CHT	Traditional Chinese
CZE	Czech
DEU	German
DNK	Danish
FIN	Finnish
FRA	French

[LNG]	Language Option
ITA	Italian
JPN	Japanese
KOR	Korean
NOR	Norwegian
POL	Polish
POR	Portuguese
SPA	Spanish
TUR	Turkish

[AC]	Destination Country	AC Plugs
US	USA	2-pin, US
EU	European Union	2-pin, EU
UK	United Kingdom	2-pin, UK
CN	China, Australia	2-pin, SAA

[FR] ^b	150 m SMF Fiber Ring Configuration
Absent	N/A in Basic kits
SC/SC	FR1-SM-150-SC-SC
SC/FC	FR1-SM-150-SC-FC
SC/LC	FR1-SM-150-SC-LC
SC/ST	FR1-SM-150-SC-ST
SC/ASC	FR1-SM-150-SC-ASC
SC/AFC	FR1-SM-150-SC-AFC
SC/ALC	FR1-SM-150-SC-ALC
LC/LC	FR1-SM-150-LC-LC
LC/ASC	FR1-SM-150-LC-ASC
LC/ALC	FR1-SM-150-LC-ALC
ASC/FC	FR1-SM-150-ASC-FC
ASC/ST	FR1-SM-150-ASC-ST
ASC/ASC	FR1-SM-150-ASC-ASC
ASC/AFC	FR1-SM-150-ASC-AFC
ASC/ALC	FR1-SM-150-ASC-ALC
ALC/ALC	FR1-SM-150-ALC-ALC
FC/FC	FR1-SM-150-FC-FC
FC/ST	FR1-SM-150-FC-ST
FC/LC	FR1-SM-150-FC-LC
FC/AFC	FR1-SM-150-FC-AFC
AFC/AFC	FR1-SM-150-AFC-AFC
ASC-AE2000	FR1-SM-150-ASC-AE2000
SC-E2000	FR1-SM-150-SC-E2000

[TIP] ^c	FOCIS Flex Tips and Cleaning (PRO only)
Absent	Option not available in Basic & PLUS kits
SC	SC/UPC bulkhead tip, 2.5 mm UPC ferrule tip, 2.5 mm cleaning
FC	FC/UPC bulkhead tip, 2.5 mm UPC ferrule tip, 2.5 mm cleaning
LC	LC/UPC bulkhead tip, 1.25 mm UPC ferrule tip, 1.25 mm cleaning
ASC	SC/APC bulkhead tip, 2.5 mm APC ferrule tip, 2.5 mm cleaning
AFC	FC/APC bulkhead tip, 2.5 mm APC ferrule tip, 2.5 mm cleaning
ALC	LC/APC bulkhead tip, 1.25 mm APC ferrule tip, 1.25 mm cleaning

- Notes:**
- Results can be transferred from FlexScan OTDR to TRM using USB cable, or performed wirelessly (W1 option) after downloading free FlexScan App from Google play store.
 - FlexScans equipped with Bluetooth option (W1) support Bluetooth transfer of results via FlexScan App for remote reporting using TRM 3.0. The FlexScan App is available as a free download from Google play store.
 - Fiber Rings in additional lengths are available and may be ordered separately. See "OTDR Launch and Receive/Tail Cords - Fiber Rings" on page 14.
 - Additional FOCIS Flex adapter tips are available and may be ordered separately. See "FOCIS Series and DFS1 Adapter Tips" on page 18.



6000-00-0034PR



4050-01-0001PR



Fiber Ring, [page 14](#)



NS Bench Top Model, [page 14](#)



NSR Rack-mountable Model, [page 14](#)



TJ-03 Temporary Splice

FlexScan® FS200 and FS300 Accessories

AFL NO.	Description	
6000-00-0031MR	Cable, USB-micro B, 5 pin, 6 ft ^a	
4050-00-0931PR	AC charger 100-240 VAC to 5 VDC (specify [AC] option, see "FlexScan® FS200 Order Entry" on page 12)	
1400-05-0230PZ	FlexScan wrist strap	
1400-05-0231PZ	FlexScan neck strap, 36"	
1400-01-0111PZ	Soft carry case for FlexScan FS200 kits with FOCIS Flex and Fiber Ring	
1400-01-0128PZ	Soft carry case for FlexScan FS200 kits with FOCIS Flex, OFI-BIPM and Fiber Ring	
1400-01-0134PZ	Hard carry case for FlexScan FS200 kits with FOCIS Flex, OFI-BIPM and Fiber Ring	
1400-01-0167PZ	Soft carry case for FlexScan FS300 with FOCIS, OFI and Fiber Ring	
1400-01-0177PZ	Hard carry case for FlexScan FS300 kits with FOCIS, OFI and Fiber Ring	
3900-06-0902MR	FS300 extended temperature replacement battery	
4050-00-0033MR	Vehicle charger, 12VDC to 5VDC @ 2A	
6000-00-0034PR	5V USB charging cable (1.5 m), type A to barrel (0.9 X 3.2 X 9 mm)	
4050-01-0001PR	Convenience bundle of 5V USB charging cable and 10K mAh external USB battery pack	
TRM3-UPGRADE	TRM® 3.0 upgrade from Basic to Advanced software	
OFI-BIPM	See "OFI-BIPM Optical Fiber Identifiers" on page 48	See page 48
FOCIS Flex	See "FOCIS Flex Fiber Optic Connector Inspection System" on page 17	See page 17
Fiber Rings	Coiled lengths of multimode or single-mode fiber packaged in compact rings for use as OTDR test cords	See page 14
Network Simulators	Custom-designed bench top or rack mountable boxes intended to duplicate installed fiber optic networks	See page 14
TJ-03 Temporary Splice	See "TJ-03 Temporary Splice" on page 14.	See page 14

Notes:

- Results can be transferred from FlexScan to TRM using USB cable, or performed wirelessly (W1 option) after downloading FlexScan App from Google play store.
- OTDR software updates are available for download on the www.AFLglobal.com -> Resources -> Software web page.

FlexScan FS200 and FS300 Connector Adapters

AFL NO.	Adapter Type	Test Port	
2900-50-0002MR	FC	OTDR/OLS	
2900-50-0003MR	SC	OTDR/OLS	
2900-50-0004MR	ST	OTDR/OLS	
2900-50-0006MR	LC	OTDR/OLS	
2900-50-0011MR	SC/APC	OTDR/OLS	
2900-52-0001MR	FC	OPM	
2900-52-0002MR	SC	OPM	

AFL NO.	Adapter Type	Test Port	
2900-52-0003MR	ST	OPM	
2900-52-0004MR	LC	OPM	
2900-52-0005MR	2.5 mm Universal	OPM	
2900-52-0006MR	1.25 mm Universal	OPM	
2900-53-0001MR	2.5 mm Universal	VFL	
2900-53-0002MR	1.25 mm Universal	VFL	

MFS Multi-fiber Switch OTDR Add-on Kit

Single-mode and multimode Multi-Fiber Switches (MFS) are available to accelerate OTDR testing of MPO-connectorized, multi-fiber cables. OTDR MFS Add-on Kits include (1) MFS with MPO connector, (1) single-fiber fiber ring to connect OTDR to the switch, plus (1) MPO fiber ring. Select single-mode or multimode. See section "Multi-fiber Switch Models" on page 39 for MFS details.

AFL NO.	Contains (ea.)			
	12F MFS Switch	Fiber Ring	MPO Fiber Ring	
MPO-SM-OTDR-ADD	MFS-12-SM-ASC, SM, SC/APC-MPO/APC pinned	SM, 150 m, SC-ASC or ASC-ASC (depending on OTDR connector)	12F, 61m, MPO/APC-unpinned to MPO; Select pinned or unpinned network MPO connector	
MPO-MM-OTDR-ADD	MFS-12-MM-USC, MM, SC/UPC-MPO/UPC pinned	OM3/4/5-compatible, SC-SC, 150 m	12F, 61m, MPO-unpinned to MPO; Select pinned or unpinned network MPO connector	

OTDR Launch and Receive/Tail Cords - Fiber Rings

To measure the insertion loss of the near-end and/or far-end connection of a fiber 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. AFL offers coiled lengths of 50 and 62.5 μ m multimode, or single-mode fiber, packaged in compact rings, for use as OTDR test cords. Fiber Rings of 150 m of fiber are ideal for premises fiber network test applications. Fiber Rings of 500 m and 1 km of single-mode fiber are designed for broadband, long-haul fiber network test applications.



Fiber Ring

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

Other fiber 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 single-mode cables, specify type [ST, SC, ASC (angled SC), FC, AFC (angled FC), LC].

Custom-Designed Network Simulators

AFL network simulators are custom-designed bench-top or rack mountable boxes intended to duplicate installed fiber optic networks. Network simulators may be ordered with customer-specified lengths of multimode or single-mode fiber. Events such as connections, fusion splices, and mechanical splices can be added at various points within the fiber 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 fiber and the rack mountable cases can hold up to 100 km of fiber.



NS Bench Top Model



NSR Rack-mountable Model

FTTx PON Simulator Kits

These field-portable kits may be used for lab or table-top FTTx PON demonstration, evaluation, and testing applications. FTTx PON Simulator kits are designed for a variety of users and applications, including network designers, fiber optic installation teams and trainers, equipment manufacturers, and sales engineers.



FTTx PON Simulator Kit

AFL NO.	Kit Includes
PONS-00-0901PZ	(1) FTTx PON splitter box, (4) fiber rings, (3) SC/APC jumpers, (2) hybrid jumpers, (1) PON demo procedure, (1) carry case
PONS-00-0900PZ	(1) FTTx PON splitter box, (4) fiber rings, (3) SC/APC jumpers, (2) hybrid jumpers, (1) OLS7-FTTH, (1) PON demo procedure, (1) carry case

TJ-03 Temporary Splice

Only available to customers in North America!

The TJ-03 is a temporary mechanical fiber splice for fiber and cable connections to test equipment such as OTDRs or fiber optic cable reels. The TJ-03 uses a precision ceramic V-groove to align up to 12 fibers simultaneously. The fibers are prepared for joining by using standard mass fusion fiber preparation tools (fiber 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 fibers. **Note:** TJ-03 Temporary Splice and TJ-03 Temporary Splice Kit ship from the AFL Splicer Division in Spartanburg, SC.



TJ-03 Temporary Splice

AFL NO.	Description
S012772	TJ-03 Temporary Splice Kit includes: (1 pair) FH-50-12 fiber 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 fiber preparation tools)

FIBER INSPECTION & CLEANING



FOCIS Flex

Simple, Fast Fiber Optic Connector Inspection



Specifications

- Field of View (Live): 710 x 860 μm
- Field of View (Captured): Fully Zoomed In: 180 x 195 μm
- Display: 2.4", TFT, 240 x 320 with brightness control
- Pass/Fail Analysis: IEC 61300-3-35, IPC, user-defined
- File Format: 648 x 480 pixel JPG & GIF
- Storage Capacity: 10,000 images & results
- Battery: 8 hours, rechargeable NiMH

Research has shown that dirty and damaged connectors cause up to 85% of network failures. Taking less than 2 seconds to inspect each end-face is time well spent.

FOCIS Flex is an ultra-compact Fiber Optic Connector Inspection scope with liquid lens technology for fast auto-focus, centering and PASS/FAIL analysis. The integrated display eliminates awkward tethering and the small form factor makes inspection in tight places easier. The unit can store up to 10,000 images locally or easily share them via USB, WiFi and Bluetooth®.

FOCIS Flex offers a wide range of interchangeable adapter tips for both single-fiber and multi-fiber connectors. Available kits include TRM® 3.0, AFL's Test Results Manager software, to generate connector inspection reports including images and pass/fail results.

FOCIS Flex's self-contained compact design and fast one-button operation makes it a top choice of technicians installing and troubleshooting optical networks.



Contact sales@AFLglobal.com



FOCIS Flex



FOCIS Flex & FlexScan®



FOCIS Flex & Smart Device

FOCIS Flex Fiber Optic Connector Inspection System

FOCIS Flex is self-contained fiber connector inspection probe. Its innovative, ultrafast auto-focusing system auto-centers, captures and analyzes the optical fiber 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® 3.0, 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 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 Connector Inspection Kits

Each FOCIS Flex Kit includes: FOCIS Flex probe with wrist strap and dust cap, TRM 3.0 Basic (Test Results Manager software), AC charger with country-specific plug, USB cable, quick reference guide, and soft carry case with strap.

AFL NO.	Description									
	Contains (ea.)							Functionality		
	FOCIS Flex	AC Charger	UPC Tips		APC Tips		One-Click Cleaner	Soft Carry Case	Bluetooth	
		Bulkhead	Ferrule	Bulkhead	Ferrule					
FOCIS-FLX-P4XN	1	1						1	◆	◆
FOCIS-FLX-P4XU	1	1	1	1			1	1	◆	◆
FOCIS-FLX-P4XA	1	1			1	1	1	1	◆	◆
FOCIS-FLX-P4XUA	1	1	1	1	1	1	1	1	◆	◆
FOCIS-FLX-NW-P4XN	1	1						1		
FOCIS-FLX-NW-P4XU	1	1	1	1			1	1		
FOCIS-FLX-NW-P4XA	1	1			1	1	1	1		

FOCIS Flex Order Entry

FOCIS-FLX-[NW]-P4X[K]-[PLUG]-[TIP] where:

[NW]	Wireless Option
Absent	Includes wireless
NW	No Wireless

[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

[TIP]	User-selected adapter tips and One-Click Cleaner				
	Bulkhead adapter tips	Tip ID	Ferrule adapter tips	Tip ID	One-Click
FOCIS-FLX-P4XU Kits					
SC	SC/UPC	SC	Universal 2.5 mm UPC	U25	2.5 mm
FC	FC/UPC	FC	Universal 2.5 mm UPC	U25	2.5 mm
ST	ST/UPC	ST	Universal 2.5 mm UPC	U25	2.5 mm
LC	LC/UPC	LC	Universal 1.25 mm UPC	U125	1.25 mm
FOCIS-FLX-P4XA Kits					
SC	SC/APC	ASC	Universal 2.5 mm APC	A25	2.5 mm
FC	FC/APC	AFC	Universal 2.5 mm APC	A25	2.5 mm
LC	LC/APC	ALC2	Universal 1.25 mm APC	A125	1.25 mm
FOCIS-FLX-P4XUA Kits					
SC	SC/UPC	SC	Universal 2.5 mm UPC	U25	2.5 mm
	SC/APC	ASC	Universal 2.5 mm APC	A25	
FC	FC/UPC	FC	Universal 2.5 mm UPC	U25	2.5 mm
	FC/APC	AFC	Universal 2.5 mm APC	A25	
LC	LC/UPC	LC	Universal 1.25 mm UPC	U125	1.25 mm
	LC/APC	ALC2	Universal 1.25 mm APC	A125	

Example: FOCIS-FLX-P4XA-US-SC indicates FOCIS Flex with US AC plug, 2.5 mm APC ferrule adapter, SC/APC bulkhead adapter, 2.5 mm One-Click Cleaner.

FOCIS Series and DFS1 Adapter Tips

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



AFL NO.	Description	FOCIS	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	
DFS1-00-0007MR	Biconic		◆	BI	
DFS1-00-0008MR	ELIO 1.25 mm		◆	E12M	
DFS1-00-0009MR	SMA 905	◆	◆	SMA	
DFS1-00-0038MR	Slim 1.25 mm (for LuxCis and termini)		◆	T12M	
DFS1-00-0039MR	Slim 2.5 mm (for ELIO and termini)		◆	T25M	
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/PC 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	
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	

FOCIS Series and DFS1 Adapter Tips (continued)



DFS1-00-0050MR



DFS1-00-0060MR



DFS1-00-0041MR



DFS1-00-0061MR



DFS1-01-0017MR



DFS1-01-007MR



DFS1-01-0016MR

AFL NO.	Description	FOCIS	DFS1	Tip ID	
MTP/MPO Multi-fiber Adapter Tips (ferrule and bulkhead)					
DFS1-00-0060MR	Multi-row base for MTP/PC ferrule and bulkhead adapter extended tip	◆	◆	MTP ^{a,b}	
MPO/MTP Adapter Tips					
DFS1-00-0041MR	Adapter tip for MPO-12 PC bulkhead; Requires single- or multi-row base	◆	◆	MTP ^b	
DFS1-00-0058MR	Adapter tip for MPO16 PC bulkhead; Requires single- or multi-row base	◆	◆	MTP16 ^b	
DFS1-00-0061MR	Adapter tip for MPO-12 PC connector ferrule; Requires single- or multi-row base	◆	◆	MTM	
DFS1-01-0012MR	Adapter tip for MPO-12 APC bulkhead; Requires single- or multi-row base	◆	◆	MTPA ^b	
DFS1-01-0015MR	Adapter tip for MPO-16 APC bulkhead; Requires single- or multi-row base	◆	◆	MTPA16 ^b	
DFS1-01-0017MR	Adapter tip for MPO-12 APC connector ferrule; Requires single- or multi-row base	◆		MTMA	
MPO/MTP Adapter Kits - include Base plus Adapter Tip(s)					
DFS1-00-0037MR	Single-row base plus extended MPO-12 PC bulkhead adapter tip	◆	◆	MTP ^{a,b}	
DFS1-00-0042MR	Single-row base plus MTP plus MTPA (MPO-12 PC and MPO-12 APC) bulkhead adapter tips	◆	◆	MTP, MTPA ^{a,b}	
DFS1-00-0050MR	Multi-row base plus MTP (MPO-12 PC) bulkhead adapter tip	◆	◆	MTP ^{a,b}	
DFS1-01-0010MR	Single-row base plus MTPA (MPO-12 APC) bulkhead adapter tip	◆	◆	MTPA ^{a,b}	
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	
DFS1-01-0009MR	LX.5/APC bulkhead		◆	LXA	
DFS1-01-0013MR	Single-row base with OptiTip® APC bulkhead and connector ferrule adapter tips	◆	◆	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.

FOCIS Series 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-FC	FC/UPC bulkhead	◆	FC	
FFLX-01-ST	ST/UPC bulkhead	◆	ST	
FFLX-01-LC	LC/UPC bulkhead	◆	LC	
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-ULCE	Extended LC UPC Adapter Tip	◆	ULCE	
FFLX-01-EXTS46	FOCIS adapter extension tube, straight, 46 mm	◆		
FFLX-01-EXTS80	FOCIS adapter extension tube, straight, 80 mm	◆		
FFLX-45-ASC	SC/APC bulkhead adapter tip, quad-slotted	◆	XASC	
FFLX-45-AFC	FC/APC bulkhead adapter tip, quad-slotted	◆	XAFC	
FFLX-45-ALC	LC/APC bulkhead adapter tip, quad-slotted, with internal prism	◆	XALC	
FFLX-45-ALC3	Extended LC APC bulkhead adapter tip, quad-slotted	◆	ALC3	
FFLX-45-E2KA	E-2000/APC bulkhead adapter tip, quad-slotted (~60 mm)	◆	E2KA	
FFLX-45-E2K	E-2000/PC bulkhead adapter tip, quad-slotted (~60 mm)	◆	E2K	
FFLX-45-OTA	OptiTap (SC/APC) bulkhead adapter tip, quad-slotted	◆		

FOCIS Flex Accessories



AFL NO.	Description		
1400-01-0107MZ	Soft carry case with strap		
1400-05-0230PZ	Wrist strap		
3900-04-0008ME	Battery, 3.6V, NiMH, rechargeable		
4050-00-0030MR	FOCIS Flex Original AC charger		
4050-00-0931PR	FOCIS Flex2 AC charger. Select power plug option [PLUG] when ordering (see "FOCIS Flex Order Entry" on page 17).		
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'		
8800-02-0074MZ	Dust cap for the Inspection Port		
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™

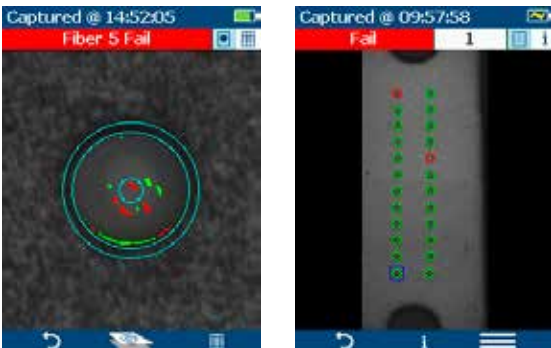
Ultrafast MPO/MTP® Multi-fiber Connector Inspection

FOCIS Lightning is a self-contained inspection probe that captures the entire MPO end-face image in less than two seconds from power-on. One button provides auto-focusing, centering and pass / fail analysis at the connector and individual fiber level. It can complete a 24-fiber MPO inspection task in less than 15 seconds. Results can be easily shared via USB, WiFi and Bluetooth®.

FOCIS Lightning supports all MPO fiber configurations including Base-8 and Base-10 with key up/key down polarity capture. It can also be used for single-fiber inspection with optional coupler and tips. FOCIS Lightning recently won "Best in Show" at the 2019 BICSI Winter Conference & Exhibition and was rated "superb" by the 2019 Lightwave Innovation Reviews.

Specifications

- Field of View (Live): 1960 x 4670 µm
- Field of View (per fiber): 130 x 130 µm
- Display: 2.4" color LCD, 320 x 240, 3 zoom levels
- Pass/Fail Analysis: IEC 61300-3-35, IPC, user
- File Formats: 640 x 480 pixel JPG & GIF
- Storage Capacity: 10,000 images & results
- Battery: 8 hours, rechargeable NiMH



FOCIS Lightning focuses, captures and analyzes all fibers in the MPO/MPT end-face with a click of a button.



Contact sales@AFLglobal.com

April 15, 2020



FOCIS Lightning



Smart Device Apps

FOCIS Lightning™ Multi-Fiber 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-fiber 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 fiber configurations up to two rows with sixteen fibers per row. Individual fiber images, pass/fail auto analysis overlays, and zone table data are available for viewing on the integrated color 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.	FOCIS Lightning Probe	Contains (ea.)								
		Bulkhead Adapter Tips					MPO Adapters		One-Click Cleaner	
		UPC MPO		APC MPO		SFA	MPO-12	MPO-16	MPO-12	MPO-16
		M12U (keyed)	MPOU (no key)	M12A (keyed)	MPOA (no key)					
FOCIS-LTNG-N	1									
FOCIS-LTNG-U	1	1	1				1	1	1	1
FOCIS-LTNG-A	1			1			1		1	
FOCIS-LTNG-UA	1	1	1	1			1	1	1	1
FOCIS-LTNG-UAS	1		1		1	1	1	1	1	1
FOCIS-LTNG-NW-N	1									
FOCIS-LTNG-NW-U	1	1	1				1	1	1	1
FOCIS-LTNG-NW-A	1			1			1		1	
FOCIS-LTNG-NW-UA	1	1	1	1			1	1	1	1

FOCIS Lightning Order Entry

FOCIS-LTNG-[NW]-[K]-[PLUG] where:

[NW]	Wireless Option
Absent	Includes wireless
NW	No Wireless

[K]	Kit type
N	No MPO adapter tips
U	UPC MPO adapter tips
A	APC MPO adapter tips
UA	UPC & APC MPO adapter tips
UAS	UPC & APC MPO adapter tips, single fiber adapter

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

Kit	Contains (ea.)			
	Bulkhead adapter tips	Tip ID	MPO adapters (for patch cords)	One-Click Cleaner
U Kit	MPO-12 (with key)	M12U	MPO-12 opposed	MPO-12
	MPO-12 / MPO-16 (without key)	MPOU	MPO-16 opposed	MPO-16
A Kit	MPO-12 (with key)	M12A	MPO-12 opposed	MPO-12
	MPO-12 (with key)	M12U	MPO-12 opposed	MPO-12
UA Kit	MPO-12 (with key)	M12A		
	MPO-12 / MPO-16 (without key)	MPOU	MPO-16 opposed	MPO-16
UAS Kit	MPO-12 / MPO-16 (without key)	MPOU	MPO-12 opposed	MPO-12
	MPO-12 / MPO-16 (without key)	MPOA		
	Single Fiber Adapter	SFA	MPO-16 opposed	MPO-16

April 15, 2020



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
3900-04-0008ME	Battery, 3.6V, NiMH, rechargeable
4050-00-0931PR	AC charger. Select power plug option [PLUG] when ordering (see "FOCIS Lightning Order Entry" on page 22).
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

AFL NO.	Description	Tip ID
FLTNG-01-M12A	Adapter tip for MPO-12/24 APC bulkhead (with key)	M12A
FLTNG-01-M12U	Adapter tip for MPO-12/24 UPC bulkhead (with key)	M12U
FLTNG-01-M16U	Adapter tip for MPO-16/32 UPC bulkhead (with key)	M16U
FLTNG-01-MPA	Universal adapter tip for MPO-12/16/24/32 APC bulkhead (partial key)	MPA
FLTNG-01-MPU	Universal adapter tip for MPO-12/16/24/32 UPC bulkhead (partial key)	MPU
FLTNG-01-MPOU	Adapter tip for MPO-12/16/24/32 UPC bulkhead (no key)	MPOU
FLTNG-01-MAC	Adapter Tip for MPO-12/16/24/32 APC connector (with key)	MAC
FLTNG-01-MUC	Adapter Tip for MPO-12/16/24/32 UPC connector (with key)	MUC
FLTNG-01-OPTM	Adapter Tip for OptiTip male (pinned) connector	OPTM
FLTNG-01-OPTF	Adapter Tip for OptiTip female (unpinned) connector	OPTF
FLTNG-01-SFA	Coupler for most 'FFLX' single fiber connector adapter tips	SFA
FLTNG-01-ALCM	Extended adapter tip for LC-APC bulkhead	ALCM
FLTNG-01-ULCM	Extended adapter tip for LC-UPC bulkhead	ULCM
FLTNG-01-MPE	MPO extender barrel	MPE



FLTNG-01-M12A



FLTNG-01-MPOU



FLTNG-01-M12U



FLTNG-01-SFA

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FOCIS Duel



FOCIS Duel & FlexScan®



FOCIS Duel & Smart Device

FOCIS Duel Fiber Optic Connector Inspection System

FOCIS Duel is a self-contained twin-ported Bluetooth connected fiber 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) features fast and convenient female "click-in" adapters, auto-focus and 2X zoom capabilities. The FOCIS Duel can perform IEC, IPC, AT&T and user-defined 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.



FOCIS Duel Connector Inspection Kits

Each FOCIS Duel Kit includes: FOCIS Duel probe with wrist strap and dust cap, TRM® 3.0 Basic (Test Results Manager software), AC charger with country-specific plug, USB cable, quick reference guide, and soft carry case with strap.

FOCIS Duel 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 Duel	AC Charger	UPC Tips		APC Tips		One-Click Cleaner	Soft Carry Case
			Bulkhead	Ferrule	Bulkhead	Ferrule		
FOCIS-DUEL-N	1	1						1
FOCIS-DUEL-U	1	1	1	1			1	1
FOCIS-DUEL-A	1	1			1	1	1	1
FOCIS-DUEL-UA	1	1	1	1	1	1	1	1
FOCIS-DUEL-NW-N	1	1						1
FOCIS-DUEL-NW-U	1	1	1	1			1	1
FOCIS-DUEL-NW-A	1	1			1	1	1	1
FOCIS-DUEL-NW-UA	1	1	1	1	1	1	1	1

FOCIS Duel Order Entry

FOCIS-DUEL-[NW]-[K]-[PLUG]-[TIP] where:

[NW]	Wireless Option
Absent	Includes wireless
NW	No Wireless

[K]	Kit type
N	No adapter tips
U	UPC adapter tips
A	APC adapter tips
UA	UPC & APC adapter tips

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

[TIP]	User-selected bulkhead & ferrule adapter tips and One-Click Cleaner				
	Port 1 bulkhead tips	Tip ID	Port 2 ferrule adapter tips	Tip ID	One-Click
FOCIS-DUEL-U Kits					
SC	SC/UPC	SC	SC/UPC, slotted female "click-in"	SUSC	2.5 mm
FC	FC/UPC	FC	Universal 2.5 mm UPC, slotted	U2	2.5 mm
LC	LC/UPC	LC	LC/UPC, slotted female "click-in"	SULC	1.25 mm
FOCIS-DUEL-A Kits					
SC	SC/APC, quad-slotted	XASC	SC/APC, slotted female "click-in"	SASC	2.5 mm
FC	FC/APC, quad-slotted	XAFC	Universal 2.5 mm APC, slotted	A2	2.5 mm
LC	LC/APC, quad-slotted	XALC	LC/APC, slotted female "click-in"	SALC	1.25 mm
FOCIS-DUEL-UA Kits					
SC	SC/UPC	SC	SC/UPC, slotted female "click-in"	SUSC	2.5 mm
	SC/APC, quad-slotted	XASC	SC/APC, slotted female "click-in"	SASC	
FC	FC/UPC	FC	Universal 2.5 mm UPC, slotted	U2	2.5 mm
	FC/UPC, quad-slotted	XAFC	Universal 2.5 mm APC, slotted	A2	
LC	LC/UPC	LC	Slotted female "click-in" LC/UPC	SULC	1.25 mm
	LC/APC, quad-slotted	XALC	Slotted female "click-in" LC/APC	SALC	



1400-01-0172PZ
(example)



6000-00-0034PR



3900-15-0001MR

FOCIS Duel Accessories

AFL NO.	Description
1400-01-0172PZ	Easy Access carry case
1400-05-0230PZ	Wrist strap
3900-04-0008ME	Battery, 3.6V, NiMH, rechargeable
4050-00-0931PR	AC charger. Select power plug option [PLUG] when ordering. See "FOCIS Duel Order Entry" on page 24.
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 ft
8800-02-0074MZ	Dust cap for the Inspection Port 1
8800-02-0082MZ	Dust cap for the Inspection Port 2
8800-02-0280MR	Dust cap for the LC (both UPC and APC) adapter tips; Inspection Port 2
8800-02-0281MR	Dust cap for the SC (both UPC and APC) adapter tips; Inspection Port 2
4050-00-0033MR	Vehicle charger, 12VDC to 5VDC @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 Duel Adapter Tips

The Port 1 of FOCIS Duel (identical to FOCIS Flex) uses both the APC adapter tips listed below as well as the full set of adapter tips qualified for FOCIS Flex and FOCIS WiFi2, see section "FOCIS Series and DFS1 Adapter Tips" on page 18.

The Port 2 of FOCIS Duel uses very specific tips (listed below) used only for Port 2 of FOCIS Duel.



FDUO-01-ULC



FDUO-01-ALC

AFL NO.	Port Usage	Description	Tip ID
FFLX-4S-ASC	1	SC/APC bulkhead adapter tip, quad-slotted	XASC
FFLX-4S-AFC	1	FC/APC bulkhead adapter tip, quad-slotted	X AFC
FFLX-4S-ALC	1	LC/APC bulkhead adapter tip, quad-slotted	XALC
FDUO-01-ULC	2	LC/UPC ferrule adapter tip, single-slotted female "click-in"	SULC
FDUO-01-ALC	2	LC/APC ferrule adapter tip, single-slotted female "click-in"	SALC
FDUO-01-USC	2	SC/UPC ferrule adapter tip, single-slotted female "click-in"	SUSC
FDUO-01-ASC	2	SC/APC ferrule adapter tip, single-slotted female "click-in"	SASC
FDUO-01-U125	2	Universal 1.25 mm UPC ferrule adapter tip, single-slotted	U1
FDUO-01-A125	2	Universal 1.25 mm APC ferrule adapter tip, single-slotted	A1
FDUO-01-U25	2	Universal 2.5 mm UPC ferrule adapter tip, single-slotted	U2
FDUO-01-A25	2	Universal 2.5 mm APC ferrule adapter tip, single-slotted	A2

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FOCIS WiFi2™ Fiber Optic Connector Inspection System

FOCIS WiFi2 is an ergonomic Fiber 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-fiber 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

FOCIS WiFi2 Connector Inspection Kits

Each FOCIS WiFi2 Kit includes: FOCIS WiFi2 probe with wrist strap and dust cap, AC charger with country-specific plug, quick reference guide, and soft carry case with strap.

AFL NO.	Contains (ea.)									
	FOCIS WiFi2	AC Charger	Dust Cap	Wrist Strap	UPC Tips		APC Tips		One-Click Cleaner Mini	Soft Carry Case
					Bulkhead	Ferrule	Bulkhead	Ferrule		
FOCIS-WIFI2-N	1	1	1	1						1
FOCIS-WIFI2-U	1	1	1	1	1	1			1	1
FOCIS-WIFI2-A	1	1	1	1			1	1	1	1
FOCIS-WIFI2-UA	1	1	1	1	1	1	1	1	1	1

FOCIS WiFi2 Order Entry

FOCIS-WiFi2-[K]-[PLUG]-[TIP] where:

[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

[TIP]	User-selected bulkhead & ferrule adapter tips and One-Click Cleaner Mini				
	Bulkhead adapter tips	Tip ID	Ferrule adapter tips	Tip ID	One-Click
FOCIS-WiFi2-U Kits					
SC	SC/UPC	SC	Universal 2.5 mm UPC	U25	2.5 mm
FC	FC/UPC	FC	Universal 2.5 mm UPC	U25	2.5 mm
ST	ST/UPC	ST	Universal 2.5 mm UPC	U25	2.5 mm
LC	LC/UPC	LC	Universal 1.25 mm UPC	U125	1.25 mm
FOCIS-WiFi2-A Kits					
SC	SC/APC	ASC	Universal 2.5 mm APC	A25	2.5 mm
FC	FC/APC	AFC	Universal 2.5 mm APC	A25	2.5 mm
LC	LC/APC	ALC2	Universal 1.25 mm APC	A125	1.25 mm
FOCIS-WiFi2-UA Kits					
SC	SC/UPC	SC	Universal 2.5 mm UPC	U25	2.5 mm
	SC/APC	ASC	Universal 2.5 mm APC	A25	
FC	FC/UPC	FC	Universal 2.5 mm UPC	U25	2.5 mm
	FC/APC	AFC	Universal 2.5 mm APC	A25	
LC	LC/UPC	LC	Universal 1.25 mm UPC	U125	1.25 mm
	LC/APC	ALC2	Universal 1.25 mm APC	SALC	

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1400-01-0172PZ
(example)



6000-00-0034PR



3900-15-0001MR

FOCIS WiFi2 Accessories

AFL NO.	Description
1400-01-0172PZ	Easy Access carry case
1400-05-0230PZ	Wrist strap
8800-02-0074MZ	Dust cap for the Inspection Port
4050-00-0931PR	AC charger. Select power plug option [PLUG] when ordering. See "FOCIS WiFi2 Order Entry" on page 26.
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	SAA power plug for AC charger
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 WiFi2 Tips

See section "FOCIS Series and DFS1 Adapter Tips" on page 18.

DFS1 Digital FiberScope

The DFS1 Digital FiberScope supports video inspection of fiber connector end-faces. The DFS1 connects via USB port to AFL's M series OTDRs to display and archive inspection images. Fiber end-faces may also be viewed on a PC (using AFL SimpleView software) by connecting the DFS1 to the PC's USB port.

The DFS1 is available in three different kits, which provide PC/UPC adapters, APC adapters, or no adapters. Each DFS1 kit includes: DFS1 Digital FiberScope, 6-compartment adapter tips storage box, FiberScope software update for M series OTDRs, quick reference guide and soft carry case.



4050-01-0001PR

AFL NO.	Description	DFS1	Contains (ea.)									
			One-Click Cleaners		Adapter Tips				SC			
					Male		Female					
			SC, ST, FC	MU/LC	2.5 mm	1.25 mm	2.5 mm	SC, FC	LC	SC, FC	SC	
DFS1-00-04XU	DFS1 PC/UPC Kit	1	1	1	1	1			1	1		
DFS1-00-04XA	DFS1 APC Kit	1	1				1				1	1
DFS1-00-04XN	DFS1 kit without adapters	1										

DFS1 Accessories

AFL NO.	Description
DFS1-04-0001MZ	Soft carry case for DFS1 Digital FiberScope and adapters
1400-01-0093MZ	6-compartment adapter tip storage box
1400-01-0094MZ	11-compartment adapter tip storage box
DFS1-001-00	Digital FiberScope display software update for M series OTDR
8500-05-0001MZ	One-Click Cleaner SC, ST, FC
8500-05-0002MZ	One-Click Cleaner MU/LC
SP2-DFS1-04X	2-year Service Plan for DFS1 kits - Includes free repair or replace, if your DFS1 kit is found defective.



DFS1



DFS1-00-04XU

DFS1 Adapter Tips

See section "FOCIS Series and DFS1 Adapter Tips" on page 18.

AFL SimpleView™ Fiber Inspection Software

AFL SimpleView Fiber Inspection Software is an application that permits the AFL DFS1 Digital FiberScope to be used with Windows® XP or Windows 7 computers. AFL SimpleView software provides a live, high-resolution video image of the end-face of an optical fiber. This capability enables fiber installers and network technicians to inspect and troubleshoot optical fibers and verify that they are clean and undamaged.

AFL SimpleView software is available as a free download from AFL, www.AFLglobal.com.



AFL SimpleView

April 15, 2020



OFS300

Microscopes for Connectors on Patch Cords (OFS300, VS300)

The OFS300-200C and VS300 are hand-held microscopes used for inspecting fiber 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 (see [page 51](#)).



VS300

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	

OFS300, VS300 Accessories

AFL NO.	Description	
1400-01-0055	Soft carry case	
VOS3-00-0109	Hard carry case	

Countertop Display

Fiber-Optic Cleaning Supplies Point of Purchase



Display Kit Contents

- 2 Cletop-SBs with White Tape
- 2 Tubs of FiberWipes™ - 90 wipes per tub
- 2 Cans Fiber Connector Cleaner - 3 oz/85 g
- 3 Debris Destroyers® Fiber Optic Cleaning Pen
- 6 One-Click Cleaners SC, ST, FC (500+ cleans)
- 2 One-Click Cleaners Mini-100 SC, ST, FC (100+ cleans)
- 6 One-Click Cleaners MU/LC (500+ cleans)
- 2 One-ClickMini-100 MU/LC (100+ cleans)
- 1 Acrylic Display Case (free with kit purchase)
- 20 Fiber Optic Cleaning Quick Reference Guides

Everyone who works with optical fiber needs cleaning supplies on a daily basis. These custom-printed countertop displays are designed to raise awareness and sales of AFL cleaning products at your facility. Available as just the acrylic display to highlight your current inventory, or as a kit stocked with our best sellers, including our patented One-Click® cleaners.

Ordering Information:

Display

Part number: 1400-01-0183PZ

Empty three-tiered custom-printed acrylic display.

Dimensions: 11.5 (W) x 15.3 (T) x 8.1 (D) inches

Display Kit

Part Number: AFL-CleanDisplay-1

Above display and a selection of our top selling wet and dry cleaning supplies.



Contact sales@AFLglobal.com



1400-01-0183PZ

Cleaning Supplies

AFL-CleanDisplay-1

AFL offers a custom display to showcase our most popular connector cleaning products. This display features 3 tier shelves and attention-grabbing product images. The display accommodates a variety of products and enables easy grab-and-go purchases.

Overall Width x Height x Depth: 11.5" x 15.3" x 8.1"

AFL NO.	Description
1400-01-0183PZ	Empty three-tiered custom-printed acrylic display
AFL-CleanDisplay-1	Display and a selection of our top selling wet and dry cleaning supplies



CleanDisplay-1

Wall/Rack Mountable Field Portable Cleaning Kits

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

AFL NO.	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, Mill 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		
FCP1-01-0902		1	1	1	2		SB	1



FCP1 Kit

Field Portable Duffel Bag Cleaning Kits

FCP2 kits offer a selection of optical cleaning products for field cleaning of connector end-faces in a convenient duffel bag style carry case.

AFL NO.	Contains (1 ea.)
FCP2-10-0900	FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC & LC One-Clicks, Debris Destroyer, Duffel Bag
FCP2-00-0901	FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC & LC One-Clicks, Debris Destroyer, MPO One-Click, Duffel Bag
FCP2 Kits Reordering Items	
FCPR-10-0900	Refill for FCP2-10-0900 Cleaning Package (no duffel bag). Includes FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC & LC One-Clicks, Debris Destroyer.
1400-01-0095PZ	Field portable duffel bag.



FCP2-10-0900



FCP3-00-0901

FCP3 Easy-Access Cleaning Kit

AFL NO.	Description
FCP3-00-0900	Basic Easy-Access Cleaning Kit. Includes: <ul style="list-style-type: none"> FCC2 Fiber Connector Cleaner And Preparation Fluid (can) FCC3 Debris Destroyer Fiber Optic Cleaning Pen CCTS-12 (for 1.25 mm ferrule) and CCTS-25 (for 2.5 mm ferrule) Connector Cleaning Tips Cletope-SB, White Tape One-Click Cleaners (SC, LC/MU, Ultra 2.5, MPO/MTP) Soft Carry Case
FCP3-00-0901	Enterprise Easy-Access Cleaning Kit. Includes: <ul style="list-style-type: none"> FCC2 Fiber Connector Cleaner And Preparation Fluid (can) FCC3 Debris Destroyer Fiber Optic Cleaning Pen CCTS-12 (for 1.25 mm ferrule) and CCTS-25 (for 2.5 mm ferrule) Connector Cleaning Tips Cletope-SB, White Tape One-Click Cleaners (Duplex LC, LC/MU, Ultra 2.5, MPO/MTP) Soft Carry Case



FCC2 in 3 oz/85 g Can

FCC2 Cleaning Fluid and CCT Cleaning Sticks

FCC2 Enhanced Formula Fiber Connector Cleaner and Preparation Fluid

The FCC2 Enhanced Formula Fiber Optic Cleaning and Preparation Fluid is a non-flammable, environmentally safe, residue free solvent engineered to easily remove contaminants from fiber optic end-faces and bare fiber. The FCC2 is not hazardous and not regulated for all modes of transportation and shipping including air-cargo. For best results, use CCT cleaning sticks with FCC2 fluid!

AFL NO.	Description
FCC2-00-0902	Enhanced Formula, (3 oz/85 g) Fiber Connector Cleaner and Preparation Fluid (1 can)
FCC2-00-0903	Enhanced Formula, (3 oz/85 g) Fiber Connector Cleaner and Preparation Fluid (case of 12 cans)
FCC2-10-0902	Enhanced Formula, (10 oz/283 g) Fiber Connector Cleaner and Preparation Fluid (1 can)
FCC2-10-0903	Enhanced Formula, (10 oz/283 g) Fiber Connector Cleaner and Preparation Fluid (case of 12 cans)
FCC3-00-PEN1	Debris Destroyer™ - Fiber Optic Cleaning Pen (1 pen)



FCC2, 10 oz/85 g Can

CCT Connector Cleaning Tips

CCT Connector Cleaning Tips are molded cleaning tips that trap contamination and wick cleaning solvents away from connector end-faces. These tips use a molded, sintered polymer that is both porous and pliable, conforming to virtually any fiber end-face polish geometry while trapping and absorbing contaminants. CCT Tips are intended for cleaning the ferrule end-faces in adapters and sockets, as well as the exposed ferrules and termini of jumpers. Available in double-ended or single-ended design.

AFL NO.	Description	Tube Color	Sticks Qty
Connector Cleaning Tips - Double-ended			
CCTP-25-0900MZ	For exposed 2.5 mm, 2.0 mm, 1.6 mm, 1.25 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers, male MIL T 29504/14 for MIL C 28876 and MIL T 29504/04 for MIL C38999)	Yellow	20
CCTS-25-0900MZ	For 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters)	Blue	40
CCTS-12-0900MZ	For 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters)	Green	40
CCTS-16-0900MZ	For MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female MIL T 29504/15 for MIL C 28876 and MIL T 29504/05 for MIL C 38999, MT-RJ both jumpers and adapters)	Orange	40
CCTX-MT-0900MZ	For Biconic and MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.)	Pink	20
CCT Tips are available in bulk packs of single-ended sticks. Packs of 50 sticks packaged in boxes of 6 packs (300 sticks).			
CCTP-25-0910MZ	For exposed 2.5 mm, 2.0 mm, 1.6 mm, 1.25 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers, male MIL T 29504/14 for MIL C 28876 and MIL T 29504/04 for MIL C 38999)	Yellow	300
CCTS-25-0910MZ	For 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters)	Blue	300
CCTS-12-0910MZ	For 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters)	Green	300
CCTS-16-0910MZ	For MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female MIL T 29504/15 for MIL C 28876 and MIL T 29504/05 for MIL C 38999, MT-RJ both jumpers and adapters)	Orange	300
CCTX-MT-0910MZ	For Biconic and MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.)	Pink	300



FCC3 Debris Destroyer



CCT Cleaning Tips



Cletop -SB



Replacement Tape Type S



Cletop Type A



Cletop Type B



Cletop Type A and B top view



Cletop (ACT) Sticks

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.

AFL NO.	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

AFL NO.	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).

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One-Click® Cleaners

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

AFL NO.	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
8500-05-0014MZ	One-Click Cleaner M20, 2.0 mm ferrule (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

One-Click Cleaners



NEOCLEAN-M and -M2

NEOCLEAN Fiber Connector Cleaning Tools

AFL NO.	Description		
8500-15-0900MZ	NEOCLEAN-E1 for MU and LC connectors with UPC/APC polishes (750+ cleans)		
8500-15-0901MZ	NEOCLEAN-E2 for SC and FC connectors with UPC/APC polishes and OptiTap connectors (750+ cleans)		
8500-15-0902MZ	NEOCLEAN-E3 for SC, ST, FC, E2000 with UPC/APC polishes and OptiTap connectors (750+ cleans)		
8500-15-0903MZ	NEOCLEAN-ES1 - pack of 3 replacement cartridges for NEOCLEAN-E1 (750+ cleans each)		
8500-15-0904MZ	NEOCLEAN-ES2 - pack of 3 replacement cartridges for NEOCLEAN-E2 (750+ cleans each)		
8500-15-0905MZ	NEOCLEAN-ES3 - pack of 3 replacement cartridges for NEOCLEAN-E3 (750+ cleans each)		
8500-15-0909MZ	NEOCLEAN-M for MPO/MTP® connectors (600+ cleans)		
8500-15-0910MZ	NEOCLEAN-M2 for MPO-16/MTP-16® connectors (600+ cleans)		



NEOCLEAN-E Models

OPTIPOP-C Fiber Connector Cleaning Card

AFL NO.	Description		
8500-25-0900MZ	OPTIPOP-C: Includes card cleaner case, 10 cleaning cards, 120 cleans - 12 cleans per card		
8500-25-0901MZ	OPTIPOP-C refills: Includes 100 cleaning cards, 1200 cleans - 12 cleans per card		

Optical Grade Cleaning Wipes

AFL NO.	Description		
9000-03-0031MZ	CleanWipes - 600 optical quality wipes (1 box)		
9000-03-0030MZ	CleanWipes - 3200 optical quality wipes (1 box)		
9000-03-0025MZ	FiberWipes™ - 90 optical quality wipes per tub, (1 tub)		
9000-03-0026MZ	FiberWipes - 90 optical quality wipes per tub (1 case of 24 tubs)		
9000-03-0027MZ	FiberAide 1 - 600 lint free wipes for single use (12 bags of 50 wipes)		
9000-03-0028MZ	FiberAide 1 - 50 lint free wipes for single use (1 bag of 50 wipes)		



CleanWipes-600



FiberWipes Tub

OPTICAL LOSS TESTING





ROGUE[®] OLTS Certifier

Test & Certify Multimode or Single-Mode Networks



ROGUE OLTS Certifier can perform multiple tests, certify a range of network types, and work both online and offline.

Specifications

- Wavelengths: Dual SM (1310, 1550 nm)
Quad (850, 1300, 1310, 1550 nm)
- Power Measurement Range: -3 to +60 dBm
- Length Measurement Range: 5 km (MM); 200 km (SM)
- Encircled Flux Compliant
- Internal Storage: 4 GB (>1000 fibers)
- Size: 23.5 x 13.3 x 7.6 cm
- Weight: 1.56 kg (3.46lb)
- Battery Life: >8 hours continuous testing
- Display: 7" high resolution color screen

ROGUE OLTS Certifier was designed for both enterprise network operators and telecom service providers who need to test and verify their networks. Its unique design features a test port on each of the paired units that measures insertion loss, return loss and length bi-directionally on multimode or single-mode networks. The additional dedicated power meter and visual fault identifier help with troubleshooting.

ROGUE is available with dual bi-directional test ports that certify two single-mode fibers at once, without swapping test cords, to accelerate testing high density networks such as data centers, saving technicians valuable time when testing hundreds or even thousands of fibers.

All of the ROGUE OLTS Certifier models can be paired with an optional Multi-Fiber Switch for certifying MPO terminated cables bi-directionally to IEEE 40 and 100G test limits.

ROGUE OLTS Certifier is another product from AFL that focuses on being robust, easy-to-use and affordable.



Contact sales@AFLglobal.com

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cB1 Base with Module



iB1 Base with Module



cB1 and iB1 Base with Module



ROGUE Carry Case



ROGUE® OLTS Certifier

- Each ROGUE OLTS Certifier kit includes two (2) of each: ROGUE cB1 or iB1 Base, kit-specific ROGUE Modules, battery, AC charger, carry strap, carry case.
- Each ROGUE OLTS Certifier kit includes (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).

AFL NO.	ROGUE OLTS Certifier Kit	Contains (ea.)										
		ROGUE Base		ROGUE Modules			Reference Test Cords		Adapters			
		cB1	iB1	Quad SM/MM	Dual Engine		SM	50 μm MM	Mating	Test Port		
				SM	MM	SM	MM	SC	OLS	OPM	LC	
RGK-CERT01	Quad SM/MM	2		2			2	2	2	2	2	2
RGK-CERT03	Dual Engine SM	2			2		4		2	4	2	2
RGK-CERT01B1	Quad SM/MM		2	2			2	2	2	2	2	2
RGK-CERT03B1	Dual Engine SM		2		2		4		2	4	2	2

ROGUE OLTS Certifier Kit Order Entry

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

[KIT]	ROGUE OLTS Certifier Kit Type/Contents
01	(2) cB1 Base, (2) Quad SM/MM OLTS Certifier Module, test reference cords, adapters, One-Click Cleaner
03	(2) cB1 Base, (2) Dual Engine SM OLTS Certifier Module, test reference cords, adapters, One-Click Cleaner
01B1	(2) iB1 Base, (2) Quad SM/MM OLTS Certifier Module, test reference cords, adapters, One-Click Cleaner
03B1	(2) iB1 Base, (2) Dual Engine SM OLTS Certifier Module, test reference cords, adapters, One-Click Cleaner

[C]	Single-mode Connector Type
U	UPC
A	APC

[AC]	Destination Country	AC Power Plug Type
US	USA	3-wire, 115V, Type K
EU	European Union	3-wire, 250V, Type B
UK	United Kingdom	3-wire, 250V, Type D
CN	China, Australia	3-wire, 250V, Type C
DK	Denmark	3-wire, 250V, Type E

[AC]	Destination Country	AC Power Plug Type
JP	Japan	3-wire, 125V, Type M
CH	Switzerland	3-wire, 250V, Type L
IT	Italy	3-wire, 250V, Type I
IL	Israel	3-wire, 250V, Type H
IN	India	3-wire, 250V, Type G

Mobile App for ROGUE® OLTS Certifier

Android Apps are available as free downloads from Google Play to configure, control and access results from ROGUE OLTS Certifier.

Mobile App	Android Google Play
ROGUE TURBO OLTS Certifier	Available

ROGUE RTG "Ready to Go" Tablets

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

AFL NO.	Description
RGK-7TBLT-01	Preloaded with AFL ROGUE Apps. 90 days Limited Warranty
RGK-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

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ROGUE iB1 Base



ROGUE cB1 Base



OLTS Certifier Module

Connector Adapters for
ROGUE OLTS Certifier
Module Test Ports



2900-50-0003MR



2900-52-0005MR



2900-50-0007MR

ROGUE® Hardware and Accessories

AFL NO.	Description	Contains	
RGK-OLTS03	ROGUE OLTS kit with cB1 Base	(1) ROGUE cB1 Base, (1) Dual Engine SM Module, (2) SM reference cords (1) battery, (1) AC charger, (1) adjustable carry strap	
RGK-OLTS03B1	ROGUE OLTS kit with iB1 Base	(1) ROGUE iB1 Base, (1) Dual Engine SM Module, (2) SM reference cords (1) battery, (1) AC charger, (1) adjustable carry strap	
RG-C01	ROGUE cB1, Compact Base	(1) ROGUE cB1 Base, (1) battery, (1) AC charger, (1) adjustable carry strap	
RG-B01	ROGUE iB1, Intelligent Base	(1) ROGUE iB1 Base, (1) battery, (1) AC charger, (1) adjustable carry strap	
RG-1100-Q01	ROGUE OLTS Certifier Quad Module	(1) Quad Module; test port adapters: (2) SC for OLS port, (1) SC & (1) LC for OPM port	
RG-1100-S01-D	ROGUE OLTS Certifier SM Module	(1) SM Module; test port adapters (2) SC for OLS port, (1) SC & (1) LC for OPM port	
RGA-STND-01	ROGUE cB1 Base Kickstand	(1) Kickstand	
RGA-CASE-01	ROGUE 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 charger for ROGUE cB1 Base	(1) AC charger, (specify power cord, see page 52 , Table 1)	
4050-00-0918PR	AC charger for ROGUE iB1 Base	(1) AC charger, (specify power cord, see page 52 , Table 1)	

Connector Adapters for ROGUE Module Test Ports

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

AFL NO.	Connector Adapter Type	Test Port Usage	
2900-50-0002MR	FC	OLS	
2900-50-0003MR	SC	OLS	
2900-50-0004MR	ST	OLS	
2900-50-0006MR	LC	OLS	
2900-52-0001MR	FC	OPM	
2900-52-0002MR	SC	OPM	
2900-52-0003MR	ST	OPM	
2900-52-0004MR	LC	OPM	
2900-52-0005MR	2.5 mm Universal	OPM	
2900-52-0006MR	1.25 mm Universal	OPM	
2900-50-0007MR	2.5 mm Universal	VFL	
2900-50-0010MR	1.25 mm Universal	VFL	

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MFS- Multi-fiber Switch



MFS in Carry Holster

ROGUE® Multi-fiber Switch Certification Add-on Kits

- Each ROGUE Multi-fiber Switch Certification Add-on kit include (2) Multi-fiber 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, test cords and mating adapters (see table below).

AFL NO.	Add-On Kit	12F MFS Switch	Contains (ea.)	
			Reference Test Cords	
			SC-SC, 0.3 (m)	12F MPO-MPO, 2 (m)
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
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

Multi-fiber Switch Models

AFL's Multi-fiber Switch enables the testing of 12-fiber cables without the need to use a breakout cable. The switch allows you to utilize a single piece of test equipment to seamlessly cycle through all of the fibers in a connector regardless of polarity without having to disconnect and reconnect your test equipment. Multi-fiber Switch is compatible with your OLTS Certification equipment.

Model	Fiber Type	Wavelength Range	Insertion Loss	Optical Return Loss (ORL)	Power
MFS-12-SM	Single-mode	1270 – 1670 nm	2.8 dB typ.; 3.3 dB max.	50 dB min	Li-Ion, USB
MFS-12-MM	OM4 multimode	800 – 1320 nm	1.8 dB typ.; 2.3 dB max.	Not specified	Li-Ion, USB

AFL NO.	Description
MFS-12-SM-ASC-FR	Multi-fiber Switch, 12 fibers SM, APC-SC, MPO fiber ring (pinned or non-pinned), soft case
MFS-12-SM-ASC	Multi-fiber Switch, 12 fibers SM, APC-SC, soft case
MFS-12-SM-USC	Multi-fiber Switch, 12 fibers SM, UPC-SC, soft case
MFS-12-MM-USC	Multi-fiber Switch, 12 fibers MM, UPC-SC, soft case

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" on page 42.

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 (see page 51). For available AC chargers see page 43. 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	Fiber 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 fiber.
- b. On 9/125 μm single-mode fiber.

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5 YEAR WARRANTY



Encircled Flux (EF) Compliant Test Kits

Since adoption by the IEC, Encircled Flux (EF) multimode launch requirements are increasingly specified into fiber 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)

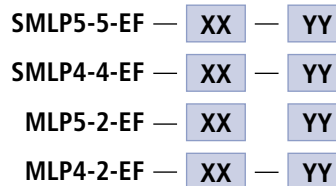
- Light Source with designed in Encircled Flux (EF) optics paired with one EF qualified RGTC.
- 50/125 μm receive test cord

Single-mode Test Ports (SMLP kits)

- Light Source with two 9/125 μm test cords (launch/receive)

AFL NO.	Power Meter	Light Source	WL - λ (nm)	Dynamic Range (dB)	Available Connectors		Included 2-meter 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

Output connector of RGTC (YY) *

YY = FC, SC, ST, LC

Notes:

* See section "Encircled Flux (EF) Reference Grade Test Cords" on page 42 to order additional Reference Grade Test Cords.

For Encircled Flux (EF) Mode Conditioning Cords that can be used with non-EF Compliant Sources, see section "Encircled Flux (EF) Modal Conditioners" on page 42.

Encircled Flux (EF) Compliant Light Sources

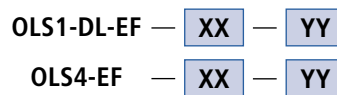
Since adoption by the IEC, Encircled Flux (EF) multimode launch requirements are increasingly specified into fiber loss testing job requirements. Meeting EF specification requires technicians use EF qualified test sets. It is important to note IEC 61280-1-4 and TIA-568-14-B, specify EF multimode launch 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 single-mode test cord.

AFL NO.	Wavelengths	Test Cords Included
OLS1-DL-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:



Source port UCI adapter style (XX) ■

Input connector of RGTC (XX)

XX = FC, SC

■ Output connector of RGTC (YY)*

YY = FC, SC, ST, LC

Notes:

* See section "Encircled Flux (EF) Reference Grade Test Cords" (below) 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" (below).

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. RGTCs are qualified in one direction and marked accordingly (input/output).

AFL Reference Grade Test Cords use 50 µm OM4 fiber, red jacketing, and come in 2-meter length. Red jacketing used to distinguish RGTCs from standard multimode fiber jumpers.

AFL NO.	Connectors
8700-04-0001MR	FC to FC
8700-04-0002MR	FC to SC
8700-04-0003MR	FC to LC
8700-04-0004MR	FC to ST
8700-04-0005MR	SC to FC

AFL NO.	Connectors
8700-04-0006MR	SC to SC
8700-04-0007MR	SC to LC
8700-04-0008MR	SC to ST
8700-04-0028MR	LC to LC



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.

AFL NO.	Description: Fiber Size, Connectors
8700-06-0001MR	50/125 µm, FC input to FC output
8700-06-0002MR	62.5/125 µm, FC input to FC output
8700-06-0003MR	50/125 µm, SC input to SC output
8700-06-0004MR	62.5/125 µm, SC input to SC output
8700-06-0005MR	50/125 µm, SC input to LC output
8700-06-0006MR	62.5/125 µm, SC input to LC output

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" on page 42.

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 chargers 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							
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 single-mode fiber.

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

b. Adjustable 2 dB.

OLS AC Chargers

AFL NO.	Description	OLS1-DUAL	OLS2-DUAL	OLS4	OLS7
4050-00-0919PR	100-240 VAC to 9 VDC, (specify power cord, see page 52, Table 2)	◆	◆	◆	◆

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	◆	◆	◆	◆	

April 15, 2020

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



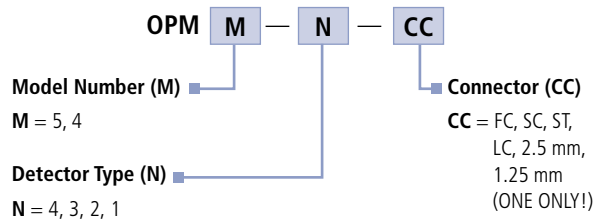
CSM1

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).
- For a list of all available adapter caps, see [page 51](#).

When placing an order, select options as follows:

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

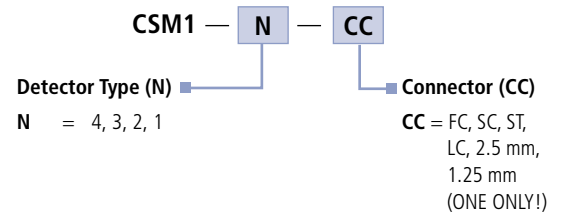


CSM1 models

- Select one of the following adapter caps when ordering power meters: 2.5 mm, 1.25 mm, FC, SC, ST, LC.
- For a list of all available adapter caps, see [page 51](#).

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 ^a	1310 ^a	1490	1550	1625					Set Ref.	PC S/W	Wave ID	Tone ^b
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:

- Optical Power Meters use a common calibration point for 1300 nm (multimode) and 1310 nm (single-mode).
- 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

FIBER IDENTIFICATION



April 15, 2020



MFIS Multi-Fiber Identification System

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



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

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



MFP Multi-Fiber Power Meter	Calibrated Wavelength	Tone Detection	Measurement Range	Power
MFP	Fiber ID mode: 1550 nm OPM mode: 850, 1300, 1310, 1490, 1550, 1625 nm	270 Hz, 330 Hz, 1 kHz, 2 kHz	Fiber ID mode: +10 to -35 dBm OPM mode: +10 to -75 dBm	2 X AA

MFIS Ordering

MFT Multi-Fiber Tracer

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



MFI Multi-Fiber Identifier

MFIS Kits Order Entry

MFTI-12-BAS-[C] MFTP1-12-BAS-[C] MFTIP1-12-BAS-[C]

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



MFP Multi-Fiber Power Meter

MFIS Accessories

AFL NO.	Description
8700-00-0198MR	Cable, MPO/APC(M)-SC/APC, 12-fiber, SM, fan-out, 3 meters
8700-00-0200MR	Cable, MPO/APC (M) - SC/UPC, 12-fiber, SM, fan-out, 3 meters
8700-00-0201MR	Cable, MPO/APC (M) - LC/UPC, 12-fiber, 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)



OFI-BIPM Optical Fiber Identifier

Avoid Disrupting Traffic or Damaging Fibers

AFL's OFI-BIPM is an easy-to-use hand-held device that determines if a fiber is live, the transmission direction, and the relative core power. Its best-in-breed sensitivity makes it the only OFI that works on bend insensitive fiber and in a bright sunlight.

A favorite of technicians in the field, OFI-BIPM has a universal head which means there are no adapters to change or lose. The slim front profile makes checking tightly packed fibers easier and the positive-stop trigger ensures the perfect amount of pressure is applied every time.

The OFI-BIPM is nicknamed the "job saver" because it eliminates the possibility of unplugging a live fiber and interrupting service to customers. And its ergonomic design has been described as stunning.

Specifications

- Insertion Loss: 0.2 dB @1310 nm
- Detection Sensitivity: -64 dBm @1310 nm, 250 μ m fiber
- Power Measurement: +10 to -73 dBm @1550 nm, 250 μ m fiber
- Power Supply: 2 x AA batteries; 1.2 to 1.5 V DC
- Battery Life: 8 hours
- Dimensions (W x H x D): 5.0 x 11.5 x 21.2 cm (1.9 x 4.5 x 8.3 in)
- Weight: 230 g (8.1 oz) including battery





OFI-BIPM

OFI-BIPM Optical Fiber Identifiers

Only available to customers in North America, Central America and the Caribbean, China, Vietnam, and Malaysia!

Our full featured OFI includes a touch screen, positive stop trigger and several easy to select options. This identifier can be used with any MM and SM fiber – including bend insensitive fiber, bare fibers, ribbons and up to 3 mm jackets. The –BIPM model adds an integrated optical power meter. Both models include carry case, batteries, and user's guide.

Model	Fiber Type	Wavelength Range	Power	Detectable Signals	Integrated Power Meter
OFI-BIPM	MM fiber, 0.25 mm SM and SM ribbon fiber (up to 12 ribbon) 1.1 /1.5 /1.7 /2.0 /3.0 mm SM jacketed fiber	900-1700 nm	(2) AA	CW, Traffic or 270 Hz/1 kHz/2 kHz	◆

OFI-BIPM Power Meter Port Adapters

AFL NO.	Adapter Type	Test Port
BIPM-00-FC	FC	OPM (power meter)
BIPM-00-SC	SC	OPM (power meter)
BIPM-00-ST	ST	OPM (power meter)
BIPM-00-LC	LC	OPM (power meter)
BIPM-00-25	2.5 Universal	OPM (power meter)

OFI- 200D and OFI-400 Optical Fiber Identifiers

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



OFI-200D OFI-400

Model	Fiber 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-400	250 µm, 900 µm, ribbon, 2 mm or 3 mm jacketed	800 - 1700	0.6	2.5	(2) AAA	◆	◆	◆	◆	◆
OFI-400C	2 mm or 3 mm jacketed	800 - 1700	1.0	2.8	(2) AAA	◆	◆	◆	◆	◆
OFI-400HP	2 mm or 3 mm jacketed	800 - 1700	0.2 to 0.5	0.8 to 1.3	(2) AAA	◆	◆	◆	◆	◆



MT Tracer Kit

MT Tracer (12-fiber 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 multifiber Visual Fault Identifiers provides 12 separately controlled visible lasers. The MT Tracer Display uses passive optics to show the light received on each fiber being traced. The MT Tracer can illuminate a selected fiber or automatically sequence through all 12 fibers. When used together, the MT Tracer Source and Display provide a fast way to trace (verify connectivity) a 12-fiber link. Both Source and Display are equipped with male (pinned) 12-fiber 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

April 15, 2020

5 YEAR WARRANTY

HiLite and VF12 Series Visual Fault Identifiers

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

Model	Wavelength	Output Power (into single-mode fiber)	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

AFL NO.	Description
HiLite Visual Fault Identifier Models	
VF13-00-0900PR	HiLite with 2.5 mm adapter
VF13-01-0900PR	HiLite with 2.5 mm & 1.25 mm adapters

AFL NO.	Description
VF12 Visual Fault Identifier Models	
VF12-00-0900PR	VF12 with 2.5 mm adapter
VF12-01-0900PR	VF12 with 2.5 mm & 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	



HiLite

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.

Model	Wavelengths Range	Fiber Type	Insertion Loss	Attenuation Range	Return Loss	Connectors
SVA1	1250 - 1650 nm	SM	≤1.5 dB @1310 nm; ≤2 dB @1550 nm	60 dB	50 dB	FC, SC, ST; APC (available*)



SVA1

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

TEST MANAGEMENT AND REPORTING SOFTWARE



aeRos® Cloud-based Test Management and Reporting

aeRos 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.

- 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

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.

AFL NO.	Description
aeRos-PRO-YRL	(1) Admin or Project Manager Seat plus (10) user seats, 1 year subscription
aeRos-PRO-LFT	(1) Admin or Project Manager Seat plus (10) user seats, Lifetime subscription



TRM® 2.0/3.0 Test Results Manager

TRM Test Results Manager, a PC-based software, provides comprehensive test results (OTDR trace, connector inspection, 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 allows technicians to quickly view test results, analyze OTDR traces, view loss or certification results, batch-edit OTDR traces and create acceptance reports conforming to industry guidelines. Reports can be generated showing dual wavelength traces and event tables, end-face image, event map and loss data for each fiber. Users can apply pass/fail thresholds to OTDR events and OLTS measurement; create and apply application rules per industry standards. The OTDR Batch editor allows user to edit and analyze multiple trace files simultaneously. TRM Advanced software includes all Basic software features and adds bi-directional OTDR trace averaging, macrobend detection, and export of .SOR files to .CSV file format. Users may download a 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 to continue to use TRM Test Results Manager.

TRM 2.0 Ordering (for use with M-series and FlexTester OTDRs and OPM5 Power Meter)

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, ROGUE OLTS Certifier, and FOCIS family products)

AFL NO.	Description
TRM3-BASIC	TRM 3.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), USB delivery
TRM3-BA-EMAIL	TRM 3.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), email delivery
TRM3-ADVANCED	TRM 3.0 with Advanced License (TRM 3.0 Basic plus Advanced Analysis), USB delivery
TRM3-AD-EMAIL	TRM 3.0 with Advanced License (TRM 3.0 Basic plus Advanced Analysis), email delivery
TRM3-UPGRADE	TRM 3.0 upgrade from Basic to Advanced License, USB delivery
TRM3-UP-EMAIL	TRM 3.0 upgrade from Basic to Advanced License, email delivery
N/A	FlexScan App download from Google Play Store

ADAPTER CAPS & ACCESSORIES

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

AFL's standard thread-on adapter caps are used to mate non-angled and angled single-fiber and dual-fiber connectors to optical power meter ports on OPM/CSM series power meters, M700 series OTDRs, and inspection ports on OFS300-200C and VS300 microscopes.

AFL NO.	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)
8800-00-0230	MT-RJ (A side only)
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
8800-00-0212	Radial PFO/VFO
Adapters for Plastic Optical Fiber (POF)	
8800-00-0223	1.0 mm bare fiber (plastic)
8800-00-0271PR	HP-HFBR-45XX POF Universal

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).

Adapter Caps for OFS300-200 and VS300 Only

AFL's thread-on angled and multifiber adapter caps are used to mate angled single-fiber as well as angled or non-angled multifiber connectors to our OFS 300-200C and VS300 microscopes.

Note: Do not use the following adapter caps with our optical power meters or other test sets to measure optical power!

AFL NO.	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.(accepts SC duplex, OptiTap)
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 (Radiall)
8800-00-0265	1.25/2.5 mm Universal sliding (2-position) adapter

Test Jumpers

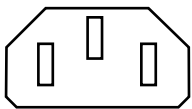
AFL NO.	Description
Multimode Test Jumpers (62.5/125 μm - 2 meters)	
8700-00-0053MR	SC/SC
8700-00-0045	SC/ST
8700-00-0003	ST/ST
Single-mode Test Jumpers (9/125 μm - 2 meters)	
8700-00-0005	FC/FC
8700-00-0016	FC/ST
8700-00-0017	ST/ST
8700-00-0018	SC/SC, G.657) BIF
8700-00-0021	FC/SC
8700-00-0022	SC/ST
8700-00-0032	FC/APC-FC/UPC
8700-00-0033	SC/APC-FC/UPC
8700-00-0034	SC/APC-SC/UPC
8700-00-0046	LC/SC
8700-00-0192MR	SC/SC

Bare Fiber Test Accessories

AFL NO.	Description
8500-10-0007	Bare fiber test connector
8400-00-0066MZ	SC terminator
8400-00-0048MZ	FC terminator

Power Supply Cords for AC Chargers

3-Conductor Power Cords (for C, CS, FLX, M, OFL Series and FTS, OLTS5, OLS1-1C/2C, T400/500B, VFS2, VOA5 Series)



Please specify power cord type (country) when ordering an AC charger. One power cord is included with each AC charger at no charge. Additional power cords may be purchased separately.

Table 1

AFL NO.	Country	Description
6000-00-0001MR	USA	3-conductor, IEC320, 115V, Type K
6000-00-0012MR	Euro	3-conductor, IEC320, 250V, Type B
6000-00-0015MR	UK	3-conductor, IEC320, 250V, Type D
6000-00-0016MR	Australia, China	3-conductor, IEC320, 250V, Type C
6000-00-0017MR	Denmark	3-conductor, IEC320, 250V, Type E
6000-00-0018MR	Japan	2-conductor, IEC320, 125V, Type M
6000-00-0019MR	Swiss	3-conductor, IEC320, 250V, Type L
6000-00-0020MR	Italy	3-conductor, IEC320, 250V, Type I
6000-00-0021MR	Israel	3-conductor, IEC320, 250V, Type H
6000-00-0022MR	India	3-conductor, IEC320, 250V, Type G

Mating Adapters

Adapters listed below are recommended for both multimode and single-mode testing.

AFL NO.	Description
8400-00-0083MR	LC/LC, Simplex
8400-00-0004MR	FC/FC
8400-00-0020	ST/ST
8400-00-0029MR	SC/FC
8400-00-0045MR	SC/SC
8400-00-0054	SC/ST
8400-00-0093MR	MPO-12, key-up/key-up (aligned notch)
8400-00-0094MR	MPO-12, key-up/key-down (opposed notch)
8400-00-0105PR	MPO-16, key-up/key-up (aligned notch)
8400-00-0106PR	MPO-16, key-up/key-down (opposed notch)

Mandrels for Multimode Link Testing

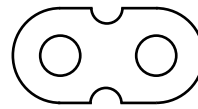
Mandrels are used to meet the transmit jumper mandrel-wrap requirements of TIA/EIA-568 B.3 (Section 7.1) when testing multimode links using an LED source.

AFL NO.	Description
5400-00-0201PZ	Mandrel, 62.5 μm fiber, 3 mm jacket
5400-00-0202PZ	Mandrel, 50 μm fiber, 3 mm jacket
5400-00-0900PZ	Two mandrels: 62.5 & 50 μm fiber, 3 mm jacket

Return Loss Test Sets Accessories

AFL NO.	Description
2475-20-0001MZ	Index Matching Block, simplifies tests (5-pack)

2-Conductor Power Cords (for OLS1-DUAL, OLS2-DUAL, OLS4, and OLS7)



Please specify power cord type (country) when ordering an AC charger. One power cord is included with each AC charger at no charge. Additional power cords may be purchased separately.

Table 2

AFL NO.	Country	Description
6000-12-0001MR	USA	2-conductor, IEC 320-C7, Type N
6000-12-0002MR	Euro	2-conductor, IEC 320-C7, Type A
6000-12-0003MR	UK	2-conductor, IEC-320-C7, Type D
6000-12-0004MR	Australia, China	2-conductor, IEC-320-C7, Type P
6000-12-0005MR	India	2-conductor, IEC-320-C7, Type G
6000-12-0006MR	Japan	2-conductor, IEC-320-C7, Type M

Accessories for Discontinued Products

AFL NO.	Description	Model
C850 OTDR, C840 and C880 Accessories and Connector Adapters		
4050-00-0122PR	Vehicle charger/supply, 18 V, 6.7 A, 120 W	
1400-01-0090PZ	C850 hard carry case	
4050-00-0918PR	AC charger 100-240 VAC to 18 VDC (a)	
3900-05-0004ME	C850 Li-Ion battery	
4050-30-0005MR	C850 Li-Ion battery charger 90-260 VAC (b)	
3900-05-0001PE	C840, C880 Li-Ion battery	
6000-00-0027MR	Cable, USB-MINI B (connect to PC)	
TRM-00-0920PR	TRM® 2.0 software upgrade, Basic to Advanced	
8800-00-0072PR	Universal flip-top dust cap for UCI outputs	
2900-50-0002MR	FC adapter for OTDR/OLS port	C850, C840, C880
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	
8800-00-0200	FC adapter for OPM port	C850
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 adapter for OPM port	
8800-00-0224	1.25 mm adapter for OPM port	
2900-53-0001MR	2.5 mm adapter for VFL port	C840, C880
2900-53-0002MR	1.25 mm adapter for VFL 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 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	
CS260, FLX380, OFL250, OFL280 Series Accessories and Connector Adapters		
6000-00-0024MR	Cable, USB-MINI B (connect to PC)	
4050-00-0123PR	Vehicle charger/supply, 15 V, 5.0 A, 75 W	
4050-00-0927PR	AC charger 100-240 VAC to 15 VDC (a)	
4050-30-0005MR	Li-Ion battery charger 90-260 VAC (b)	
3900-05-0003ME	Li-Ion battery pack	
1400-01-0123PZ	Soft carry case	
TRM-00-0920PR	TRM® 2.0 upgrade from Basic to Advanced	
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	

Notes:

- a. Specify power cord, see [page 52](#), Table 1.
- b. Specify power cord, see [page 52](#), Table 2

AFL NO.	Description	Model
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	
8800-00-0072PR	Universal flip-top dust cap for UCI outputs	
FTS1 and FTS2 Accessories		
1300-10-0102	Headset and adapter	
4050-00-0911	AC charger 90-264VAC/9VDC (a)	
8500-10-0900	FTS-20C clip-on coupler	FTS2
2900-50-0002MR	FC adapter	
2900-50-0003MR	SC adapter	
2900-50-0004MR	ST adapter	
2900-50-0006MR	LC adapter	
8800-00-0072PR	Dust cap for UCI outputs	
OFL200 OTDR Accessories and Connector Adapters		
4050-00-0919PR	AC charger ^b , 100-240 VAC to 9 VD	
6000-00-0003MR	Serial cable, DB9/DB9, M/F	
6000-00-0026MR	USB to RS232 DB9 cable	
3900-04-0007ME	NiMH battery pack	
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	
2900-50-0007MR	2.5 mm Universal adapter for VFL port	
2900-50-0010MR	1.25 mm Universal adapter for VFL port	
M200 OTDR Accessories		
M200-001-01	M200 Software upgrade from v1.X to v2.X	
1400-01-0075PZ	Hard carry case for M200	
3900-05-0001PE	Li-Ion battery	
4050-00-0918PR	AC charger 100-240 VAC to 18 VDC (a)	
6000-00-0024MR	Cable, USB-MINI B (connect to PC)	
M210e/M310/M700/M710 OTDR Connector Adapters		
2900-50-0002MR	FC adapter for OTDR port	M210e, M310, M700, M710
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	M710
2900-52-0001MR	FC adapter for OPM port	M210e, M310
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 for OPM port	
2900-52-0006MR	1.25 mm Universal for OPM port	
2900-50-0007MR	2.5 mm Universal for VFL port	
2900-50-0010MR	1.25 mm Universal for VFL port	

Accessories for Discontinued Products

AFL NO.	Description	Model	
M210e/M310/M700/M710 OTDR Connector Adapters			
8800-00-0200	FC adapter for OPM port	M700, M710	
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 for OPM port		
8800-00-0224	1.25 mm Universal or OPM port		
2900-53-0001MR	2.5 mm Universal adapter for VFL port		
2900-53-0002MR	1.25 mm Universal adapter for VFL port		
4050-00-0918PR	AC charger ^a , 100-240 VAC to 18 VDC		M210e, M310, M700, M710
4050-00-0122PR	Vehicle charger, 18 V, 6.7 A, 120 W		
8800-00-0072PR	Flip-top dust cap for UCI outputs		
TRM-00-0920PR	TRM 2.0 upgrade to Advanced software		
1400-01-0075PZ	Hard carry case	M210e, M310	
3900-05-0001PE	Li-Ion battery		
6000-00-0024MR	Cable, USB-MINI B (connect to PC)		
1400-01-0082PZ	Soft carry case		
1400-01-0090PZ	Hard carry case		
3900-05-0004ME	Li-Ion battery		
4050-30-0005MR	Li-Ion battery charger 90-260 VAC (^a)		
6000-00-0027MR	Cable, USB-MINI B (connect to PC)		
1400-01-0067	Soft Case		M200, M210, M210e, M310
8800-00-0072PR	Universal flip-top dust cap for UCI outputs		
OFS300 Microscope Adapter Caps and Accessories			
OFS300 Microscope Adapter Caps			
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 ^b (accepts SC duplex, OptiTap)		
8800-00-0230	MT-RJ (A side only)		
8800-00-0231	MT-RJ (A side or B side)		
8800-00-0203	SMA		
8800-00-0201	D4		

AFL NO.	Description	Model
8800-00-0204	Biconic	
8800-00-0211	DIN 47256	
8800-00-0212	Radial PFO/VFO	
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	
8800-00-0219	2.5 mm open Universal (accepts SC duplex, OptiTap)	
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	
8800-00-0223	1.0 mm bare fiber (plastic)	
8800-00-0271PR	HP-HFBR-45XX POF Universal	
OFS300 Accessories		
1400-01-0055	Soft Carry case	
OFS1-00-0100	Hard Carry case	
1400-01-0025PZ	Holster	
2900-10-0001	Tripod Stand (table top)	
2460-10-0002	Spare LED for OFS300-200B	
2900-10-0004	20X Eyepiece	

Notes:

- a. Specify power cord, see [page 52](#), Table 1.
- b. Specify power cord, see [page 52](#), Table 2.

CALIBRATION SERVICES

Servicing your valuable AFL Test & Inspection equipment at authorized 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, OFI, and VFI products
- 1-year Calibration Interval for all other AFL Test & Inspection products

Authorized AFL calibration facilities are traceable to the National Institute of Standards and Technology or equivalent.

Category	Model	
OTDRs, FlexTesters	C850*	
	FlexScan® FS300, FS200-50B/-60/-300/-100/-304 without OLS/OPM	
	FlexScan FS300, FS200-50/-60/-300/-100/-304 with OLS/OPM	
	CS260-10, FLX380, M210, M210e, M310, M700, M710, OFL280, OFL250, RG-2100	
	M100*, M200*, CS260-20	
OTDR & Certification Kits	C860*	
Certification & Loss/Return Loss Kits (Pairs)	C840*, C880*	
ROGUE® OLTS Certifier Kits (Pairs)	RGK-CERTxx, RGK-CERTxxB1	
ROGUE OLTS Certifier Modules	RG-1100-xxx	
Power Meters	CSM1, OPM, MFP	
Light Sources	CSS1, OLS, MFT	
Light Sources - Encircled Flux (EF) Compliant	OLS1-DL-EF, OLS4-EF	
Network Simulators	NS1, NS2, NSR	
Optical Fiber Identifiers	OFI, MFI	
Network Activation Kits	TACT1	
Visual Fault Identifiers	HiLite, VFI2	

Notes:

1. *This product is supported for calibration service only. Repair service is no longer supported on this product due of the lack of availability of the components needed to make repairs. This product must be in fully functional condition in order to be calibrated. Any of these products that are sent in for calibration that are not in good working condition will be charged an evaluation fee and sent back to the customer without calibration.
2. The following products are no longer supported for repair or calibration: FTS3, FTS, M600, OFL100, OFL200, OLTS2, OLTS3, OLT4, OLTS5, OPM3, ORL3, ORL3B, T400, T500B, WSP, VOA4, VOA5, VOA-SM.

Calibration and Repair Facilities

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

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

Fujikura Asia LTD is an Authorized Asia Pacific Calibration facility for AFL Test and Inspection products and should be contacted directly for product calibrations.

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<https://www.aflglobal.com>

TERMS AND CONDITIONS

1. **PRICES:** All prices set forth are suggested selling prices, FOB Belmont, NH USA for domestic shipments and FCA Belmont, NH for international shipments. All prices and specifications are subject to change without notice. Contact our Sales Department to confirm price and delivery.
2. **ORDER ENTRY:** Minimum order \$250.00.
3. **TERMS OF PAYMENT:** Terms of payment shall be net within thirty (30) days from date of invoice with approved credit.
4. **SHIPMENTS:** When a carrier is not specified, shipment will be made by the best surface-carrier available. RUSH ORDERS will be shipped as authorized. The customer shall bear the risk of in-transit loss or damage.
5. **CANCELLATION:** Unless otherwise agreed, in the event of cancellation, AFL shall be reimbursed for all expenses incurred.
6. **PACKING:** All instruments shall be packed for shipment in accordance with standard commercial practices for protection during shipment and storage.
7. **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 authorized 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.
 - * **Note: Wear items such as OFI plungers are warrantied for a period of (1) one year.**
8. **RETURN:** A Return Materials Authorization (RMA) number must be issued to the customer prior to accepting any products for return. Credit will be issued only on current merchandise, in re-saleable condition. Obsolete or discontinued products may not be returned for credit. Any material returned after 30 days of the original invoice date will be subject to a 20% restocking fee. No materials may be returned beyond 6 months from the original invoice date.
9. **REPAIR/CALIBRATION:** All calibration and repair orders are accepted by phone and need to be confirmed by purchase order. When shipping equipment for repair/calibration please include the service request number issued by Customer Service/Technical Support, a complete description of the fault condition, all connector adapters and dust caps to protect the connectors and contact information in case additional information is required. All chemicals should be removed from equipment case before sending in for repair or calibration. Minimum repair evaluation fee \$150.

Some older AFL products are no longer supported or supported for calibration services only. Products supported for calibration services only must be in fully functional condition to be calibrated. Any of these products that are sent in for calibration that are not in good working condition will be charged an evaluation fee and sent back to the customer without calibration.

Upon completion of the service requested, prompt payment is expected. Completed service requests not paid within 60 days of request will be charged an additional storage fee of \$45 per month for each month or portion thereof that payment has not been received.

Notes:

- Unless otherwise specified all connectors are Ultra Physical Contact (UPC).
- ST is a registered trademark of Lucent Technologies.
- ESCON is a registered trademark of IBM.
- MTP is a registered trademark of US Conec Ltd.
- MPX is a registered trademark of TYCO Electronics Corp.

LIGHT BRIGADE® FIBER OPTIC TRAINING



Light Brigade provides critical training for your customer's personnel — improving efficiency, reducing costly errors, and lowering operating costs. Extensive hands-on training sessions help them learn skills and best practices by doing the work. Class time is spent working with cables, connectors, closures, splicers, and test equipment.

Independent Certifications and Third-party Credits

Many training courses are eligible for certification through third-party industry organizations and groups to demonstrate competency in hands-on skills and technical knowledge. Recertification and continuing education credits are also available.

Here are just a few of the courses offered at locations nationwide:

- [Fiber Optics 1-2-3](#)
- [Fiber Optics 1-2-3 Remote Classroom](#)
- [Advanced OSP Technician](#)
- [OTDR & Testing Deep Dive](#)
- [Emergency Restoration](#)
- [Fiber Characterization Fundamentals](#)
- [FTTx for Installers and Technicians](#)
- [FTTx OSP Design](#)
- [Certified Fiber to the Home Professional \(CFHP\)](#)
- [Fiber Optics for Utilities](#)
- [Fiber Optics for Wireless](#)
- [Fiber Optics for Enterprise Networks](#)
- [Industrial & Harsh Environments](#)
- [Online Training](#)

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