



Rugged, dependable, and backed by industry-best 5-year warranty

Features

- Wave ID tests up to three wavelengths simultaneously slashing test time
- Field-swappable connector adapters for maximum flexibility
- Long battery life from globally available AA batteries

Applications

- Certify multimode and single-mode links per TIA/EIA standards
- Passive Optical Networks (PON) testing
- Certification report generation with TRM® 2.0 software
- Fiber identification for splicing and continuity checking

Stk# <u>812X207</u> SMLP5-5 Kit

Optical Loss Test Sets (OLTS) provide the most accurate method for determining the total loss of a link. AFL's OLTS have been an industry favorite for over 30 years with more than 100,000 units shipped. Leading service providers and enterprise customers rely on AFL's OLTS for their ruggedness, reliability, and best-in-the-industry 5-year warranty.

An OLTS test is performed with a light source on one end of the fiber sending a continuous wave at specific wavelength(s) and a power meter on the opposite end measuring the light received. The loss measured is compared to the loss budget, which is usually calculated prior to installation, and reflects the industry standards used to ensure that the link can meet its application requirements.

OLTS are mainly used to certify multimode and single-mode links, test Passive Optical Networks (PONs), identify fibers before splicing, and to ensure network continuity.

Designed for use in outside plant environments: AFL OLTS are extremely rugged and withstand one-meter drops, have splash resistant controls that are easy to use with gloves on, and the field-swappable connector adapters provide flexibility and access for cleaning optical ports at time of test.

Test faster with fewer errors: AFL's Wave ID increases test speed by performing simultaneous multi-wavelength testing that cuts loss measurement time in half or more. AFL's automatic wavelength identification eliminates setup errors and simplifies coordination between users at opposite ends of fiber.



Specifications^a

OPTICAL SPECIFICATIONS - POWER METERS

OFFICAL SPECIFICATIONS - FOWER METERS						
MODEL	OPM5-4D	OPM5-3D, OPM4-3D	OPM5-2D			
Calibrated Wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625 nm	850, 1300, 1310, 1490, 1550, 1625 nm	850, 1300, 1310, 1490, 1550 nm			
Detector Type	Filtered InGaAs	InGaAs	Germanium (Ge)			
Measurement Range	+26 to -50 dBm	+10 to -75 dBm	+6 to -60 dBm			
Tone Detect Range	+6 to -30 dBm +6 to -25 dBm for 850 nm	+10 to -50 dBm +10 to -45 dBm for 850 nm	+6 to -50 dBm +6 to -45 dBm for 850 nm			
Wavelength ID Range	+6 to -30 dBm +6 to -25 dBm for 850 nm	+10 to -50 dBm +10 to -45 dBm for 850 nm	+6 to -50 dBm +6 to -45 dBm for 850 nm			
Accuracy	±0.1 dB (typical); ±0.25 dB					
Resolution	0.01 dB					
Measurement Units	dB, dBm, µW					

OPTICAL SPECIFICATIONS: OLS7 MODELS						
MODEL	OLS7-FTTH (Single Port)					
Wavelength (±20 nm)	1310 nm 1490 nm 1550 nm					
Spectral Width	5 nm	3 nm	5 nm			
Emitter Type	Laser					
Safety Class	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03					
Output Power	-5 dBm (typical), 9/125 fiber					
Output Stability	± 0.05 dB over 1 hour (after 15 minutes warm-up)					
	± 0.1 dB over 8 hours (after 15 minutes warm-up)					
Tone Output	270 Hz, 330 Hz, 1 kHz, 2 kHz					

OPTICAL SPECIFICATIONS: OLS4, OLS2-DUAL & OLS1-DUAL MODELS							
MODEL	OLS4		OL	_S4	OLS2-DUAL		
	(MM Optical Port)		(SM Opt	ical Port)	(Single Port)		
Wavelength	850 ±30 nm	1300 +30/-20 nm	1310 ±20 nm	1550 ±20 nm	1310 ±20 nm	1550 ±20 nm	
Spectral Width	45 nm (typ)	120 nm (typ)	5 nm (max)	5 nm (max)	5 nm (max)		
Emitter Type	LED		Laser		Laser		
Safety Class	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03						
Output Power	>-20 dBm, 62.5 µm multimode ^b		0 dBm, 9 µm single-mode		0 dBm, 9 µm single-mode s		
Output Stability	±0.1 dB over 8 hours (after 5 minutes warm-up)		±0.05 dB over 1 hour (after 15 minutes warm-up) ±0.1 dB over 8 hours (after 15 minutes warm-up)				
Tone Output	N/A		2 kHz		270 Hz, 330 H	Iz, 1 kHz, 2 kHz	

GENERAL SPECIFICATIONS: ALL OPM AND OLS MODELS				
Available Adapters	SC FC, ST, LC			
Power	2 AA batteries			
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)			
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)			
Size (H x W x D)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)			
Weight	0.29 kg (0.65 lb)			

Notes:

- a. All specifications valid at 25°C unless otherwise specified.
- b. May be used to test 50 or 62.5 μm fiber with supplied mandrels.
- c. Output power will be approximately 3 dB less if a 50 µm mandrel-wrapped jumper is used instead of a 62.5 µm mandrel-wrapped jumper.

d. Adjustable 2 dB.



Ordering Information

Test kits include light source, power meter, protective rubber boots, AA batteries, adapter caps, and carry case.

AFL NO.	POWER METER	LIGHT SOURCE	FIBER	LOSS MEASUREMENTS (nm)			DYNAMIC RANGE (dB)	TRM [®] 2.0 PC		
			TYPE	850	1300	1310	1490	1550		REPORTING
SLP5-6	OPM5-3D	OLS2-DUAL	SM			•		•	70 ^b	•
SLP5-FTTH	OPM5-4D	OLS7-FTTH	SM			•	•	•	45 ^b	•
SMLP5-5	OPM5-2D	OLS4	MM	•	•	•		•	40 @ 850/1300 nm ª	•
			SM						60 @ 1310/1550 nm ^b	

Μ

CC

Connector Type (CC)

CC = FC, SC, ST, LC

Notes:

a. On 62.5/125 μm multimode fiber.

b. On 9/125 µm single-mode fiber.

Part Number – Connector Specification



M = Model Number (AFL NO.) above

Examples: SMLP5-5-SC => (SMLP5-5 Test Kit with SC adapters)

Accessories

DESCRIPTION	AFL NO.			
LIGHT SOURCE CONNECTOR ADAPTERS				
FC connector adapter	2900-50-0002MR			
SC cownector adapter	2900-50-0003MR			
ST connector adapter	2900-50-0004MR			
LC connector adapter	2900-50-0006MR			
POWER METER CONNECTOR ADAPTERS				
FC connector adapter	8800-00-0200			
SC connector adapter	8800-00-0209			
ST connector adapter	8800-00-0202			
LC connector adapter	8800-00-0225			
ENCIRCLED FLUX (EF) MODE CONTROLLER				
FC to FC, 50/125 μm	8700-06-0001MR			
FC to FC, 2.5/125 µm	8700-06-0002MR			
SC to SC, 50/125 μm	8700-06-0003MR			
SC to SC, 62.5/125 μm	8700-06-0004MR			
SC to LC, 50/125 µm	8700-06-0005MR			
SC to LC, 62.5/125 μm	8700-06-0006MR			
MULTIMODE TEST CORDS (50/125 μm – 2 meters)				
FC/FC	8700-00-0093			
SC/ST	8700-00-0064			
SC/SC	8700-00-0065			
LC/LC	8700-00-0082			

DESCRIPTION	AFL NO.			
SINGLE-MODE TEST CORDS (9/125 µm – 2 meters)				
FC/FC	8700-00-0005			
FC/ST	8700-00-0016			
ST/ST	8700-00-0017			
SC/SC	8700-00-0018			
FC/SC	8700-00-0021			
SC/ST	8700-00-0022			
SC/LC	8700-00-0046			
FC/LC	8700-00-0071			
LC/LC	8700-00-0097			
MATING ADAPTERS (Bulkheads)				
FC/FC	8400-00-0004MR			
SC/SC	8400-00-0045MR			
ST/ST	8400-00-0020			
LC/LC	8400-00-0075			
CLEANING SUPPLIES				
One-Click Cleaner SC/ST/FC	8500-05-0001MZ			
One-Click Cleaner LC	8500-05-0002MZ			
Cletop –SB Cassette Cleaner	8500-10-0016MZ			
Cletop –SB Refill Cartridge	8500-10-00017MZ			



Test Management and Reporting Software

DESCRIPTION

TRM® 2.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), USB delivery

Recommended Products



OFI-BIPM Optical Fiber Identifier

- World class signal sensitivity
- Trigger lock, positive stop for optimum detection
- Integrated optical power meter option



AFL NO.

TRM-00-0900PR

- **One-Click®** Cleaners
- Patented single-action
- Variety of sizes and types
- Low cost per clean

Oualifications

CATEGORY	REGULATION/STANDARD	QUALIFICATION
CE Marking	EU	Compliant to relevant EU Directives on health, safety, and environmental protection, and certified with CE marking
	IEC	Compliant to IEC 61010-1 for safety requirements for electrical equipment
	EN	Compliant to EN 61010-1 for safety requirements for electrical equipment
	IEC	Compliant to IEC 61326-1 for EMC requirements for electrical equipment
Safety/EMC/EMI	EN	Compliant to EN 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 55011 for EMC requirements for industrial, scientific and medical equipment
	FDA	Compliant to code of federal regulations FDA 21 CFR 1040.10 and 1040.11 on laser products
	IEC	Compliant to IEC 60825-1 for safety of laser products
RoHS	EU	Compliant to EU regulations Directive 2011/65/EU (RoHS 2) and Directive 2015/863 (RoHS 3)
	TIA	Compliant to TIA-568.3-D for test and measurement requirements for premises optical fiber cabling and components*
	IEC	Compliant to IEC 11801 for test and measurement requirements for optical fiber cabling for use within premises*
	EN	Compliant to EN 50173 for test and measurement requirements for optical fiber cabling for use within premises*
	AS/NZS	Compliant to AS/NZS 3080 for test and measurement requirements for optical fiber cabling for use within premises*
Tact Mathad	TIA	Compliant to TIA-526-7 for test procedures for installed optical fiber cable plant
lest Method	TIA	Compliant to TIA-526-14 for test procedures for installed optical fiber cable plant*
	IEC	Compliant to IEC 14763-3 for systems and methods for the inspection and testing of installed optical fiber cabling*
	AS/NZS	Compliant to AS/NZS 14763.3 for systems and methods for the inspection and testing of installed optical fiber cabling*
	IEC	Compliant to IEC 61280-4-1 for test procedures for installed optical fiber cable plant*
	IEC	Compliant to IEC 61280-4-2 for test procedures for installed optical fiber cable plant
Generic Requirement	IEC	Compliant to IEC 61315 for requirements on calibration of fibre-optic power meters

* A complementary encircled flux mode conditioner may be needed to comply with encircled flux launch conditions for testing multimode optical fiber cabling and components



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