



SMLP5-5 Kit

Features

- Rugged, dependable, and backed by industry-best 5-year warranty
- 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
- Fibre identification for splicing and continuity checking

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 favourite 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 fibre 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 fibres 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 fibre.



Specifications a

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OPTICAL SPECIFICATIONS - POWER METERS					
MODEL	OPM5-4D	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	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 +10 to -50 dBm +6 to -50 dBm +6 to -25 dBm for 850 nm +10 to -45 dBm for 850 nm +6 to -45 dBm for 850				
Accuracy	±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 fibre				
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	OL (MM OPTI	S4 CAL PORT)	OLS ⁴ (SM OPTICA	-	OLS2-DUAL (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	LE	ED .	Laser	ſ	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 si	ngle-mode	0 dBm, 9 μm s	ingle-mode ^c	
Output Stability	± 0.1 dB over 8 hours ± 0.05 dB over 1 hour (after 15 minutes warm-up))			
	(after 5 minutes warm-up) ±0.1 dB over 8 hours (after 15 minutes warm-up))		
Tone Output	N.	/A	2 kHz 270 Hz, 330 Hz, 1 kHz			, 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 fibre 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

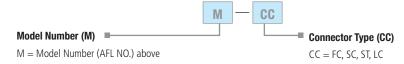
Test kits include light source, power meter, protective rubber boots, AA batteries, and adapter caps and carry case.

AFL NO.	POWER	LIGHT	FIBRE	LOSS MEASUREMENTS (nm)		DYNAMIC RANGE (dB)	TRM® 2.0 PC			
	METER	SOURCE	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	

Notes:

- a. On 62.5/125 μm multimode fibre.
- b. On $9/125~\mu m$ single-mode fibre.

Part Number – Connector Specification



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

Accessories

DESCRIPTION	PART NUMBER			
LIGHT SOURCE CONNECTOR ADAPTERS				
FC connector adapter	2900-50-0002MR			
SC connector 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			

EF MODAL CONTROLLER LAUNCH TEST CORDS (50/125 $\mu m-2$ METRES) Required with all Non-EF Compliant Light Sources and with non-AFL Light Sources		
FC/FC	TLL-S3FCFC2M-EF	
FC/ST	TLL-S3FCST2M-EF	
SC/FC	TLL-S3SCFC2M-EF	
SC/SC	TLL-S3SCSC2M-EF	
SC/LC	TLL-S3SCLC2M-EF	

MULTIMODE TEST CORDS (9/125 μm - 2 METERS)	
FC/FC	TLL-S3FCFC2M
FC/ST	TLL-S3FCST2M
SC/FC	TLL-S3SCFC2M
SC/SC	TLL-S3SCSC2M
SC/LC	TLL-S3SCLC2M
LC/LC	TLL-S3LCLC2M

DESCRIPTION	AFL. NO.			
SINGLE-MODE TEST CORDS (9/125 μm - 2 METERS)				
FC/FC, 2m	TLL-S1FCFC2M			
FC/ST, 2m	TLL-S1FCST2M			
FC/SC, 2m	TLL-S1FCSC2M			
SC/ST, 2m	TLL-S1SCST2M			
LC/SC, 2m	TLL-S1LCSC2M			
SC/SC, 2m	TLL-S1SCSC2M			
MATING ADAPTERS (Bulkheads)				
FC/FC	ADPT-FC-DDH-MYL			
ST/ST	ADPT-ST-DDH-MYL			
SC/FC	ADPT-SCFC-STF-MBK			
SC/SC	ADPT-SC-RDF-BU			
SC/ST	ADPT-SCST-RDF-BU			
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	PART NUMBER
TRM® 2.0 with Basic License (OTDR Trace/OLTS Viewer, Batch Editor and Reports), USB delivery	TRM-00-0900PR

Recommended Products



Fujikura Optical Fibre Identifier

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



One-Click® Cleaners

- Patented single-action
- · Variety of sizes and types
- Low cost per clean

Qualifications

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 fibre cabling and components*
	IEC	Compliant to IEC 11801 for test and measurement requirements for optical fibre cabling for use within premises*
	EN	Compliant to EN 50173 for test and measurement requirements for optical fibre cabling for use within premises*
	AS/NZS	Compliant to AS/NZS 3080 for test and measurement requirements for optical fibre cabling for use within premises*
Test Method	TIA	Compliant to TIA-526-7 for test procedures for installed optical fibre cable plant
rest ivietnou	TIA	Compliant to TIA-526-14 for test procedures for installed optical fibre cable plant*
	IEC	Compliant to IEC 14763-3 for systems and methods for the inspection and testing of installed optical fibre cabling*
	AS/NZS	Compliant to AS/NZS 14763.3 for systems and methods for the inspection and testing of installed optical fibre cabling*
	IEC	Compliant to IEC 61280-4-1 for test procedures for installed optical fibre cable plant*
	IEC	Compliant to IEC 61280-4-2 for test procedures for installed optical fibre 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 fibre cabling and components

Contact AUSSales@AFLglobal.com to schedule a demonstration or learn how to buy. Visit www.AFLglobal.com/Test to learn more about OLTS kits.

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