

MIL38999 & Expanded Beam Optical Loss Test Set, MM & SM



IOLTK-M2-D2SC-L2SC is a complete optical loss test set for testing single mode & multimode fiber optic cable assemblies. The Kit includes Power Meter 850nm, 1300nm, 1310nm, 1490nm, 1550nm & two Light Sources – LED based for MM & Laser based for SM.

Standard Scope of Supply:

- Power Meter: for 850nm, 1300nm, 1310nm, 1490nm, 1550nm
- Light Source: Multimode (850 & 1300nm)
- Light Source: Singlemode (1310 & 1550nm)
- OWL Reporter software
- Download cables
- NIST certificate
- Protective rubber boots
- Product manuals
- 9-volt batteries
- Carrying case



MADE IN USA
N.I.S.T. Traceable

MIL38999 Reference Test Cable



MIL38999 type

2xSC type

Expanded Beam Reference Test Cable



Expanded Beam

4xSC type

Optical Loss Test Kit P/N Selection (In addition to standard scope of supply listed above customers need to choose kit P/N as below to get the correct Reference Test Cable Set)

P/N	Instrument Adaptors	Reference Test Cable (set of 2)	Applicable for DUT
IOLTK-WT-D2SC-L2SC-38999-MM	SC	4 fiber MIL38999 MM Socket to SC	MIL38999 Plug-Plug MM Assembly
IOLTK-WT-D2SC-L2SC-38999-SM	SC	4 fiber MIL38999 SM Socket to SC	MIL38999 Plug-Plug SM Assembly
IOLTK-WT-D2SC-L2SC-X-Beam-MM	SC	4 fiber MM Expanded Beam Probeam Jr to SC	Tyco Probeam Jr MM Plug-Plug Assembly
IOLTK-WT-D2SC-L2SC-X-Beam-SM	SC	4 fiber SM Expanded Beam Probeam Jr to SC	Tyco Probeam Jr SM Plug-Plug Assembly
LTK-WT-D2SC-L2SC-COTS-MM	SC	SC – ST Ref. Lead SC – SC Ref Lead SC – LC Ref Lead SC – MTRJ Ref Lead	MM SC, ST, LC & MTRJ assemblies
LTK-WT-D2SC-L2SC-COTS-SM	SC	SC – ST Ref. Lead SC – SC Ref Lead SC – LC Ref Lead SC – MTRJ Ref Lead	SM SC, ST, LC & MTRJ assemblies

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Features:

- Certification of multimode fiber links at 850nm and 1300nm; and singlemode fiber links at 1310nm and 1550nm
- Data storage for up to 200 data points
- RS-232 interface for continuous data logging, report printing, or data downloading
- Reporter software for printing formatted fiber certification reports
- Measurement modes include absolute (for optical power) or relative (for optical loss)
- Selectively view, delete or resample data points
- Optical power meter is multimode and singlemode ready. Can store reference values for 850nm, 1300nm, 1310nm, 1490nm, 1550nm wavelengths
- Multimode light source is LED based with 850 & 1300nm wavelengths. Its output is temperature stabilized for accurate measurements
- Laser based singlemode light sources with 1310 & 1550 nm wavelengths. Its output is temperature-stabilized for accurate measurements

Optical Power Meter Specs

Detector Type	InGaAs
NIST Traceable Wavelengths	850, 980, 1300, 1310, 1490, 1550nm
Measurement Range	+5 to -60dBm
Accuracy	±0.15dB
Resolution	0.01dB
Connector Type	2.5/1.25mm Universal
Data Storage Points	Up to 1000
Download Data Points	OWL Reporter Software
Power Units Displayed	dBm, dB, uW
Battery Life	100 hrs. (9V)

Battery Capacity Display	Yes
Backlight	Yes
NIST Traceable	Yes
Auto-shutdown	Yes
Operating Temperature	-10 to 55°C
Storage Temperature	-30 to 70°C
Width	3.48"
Height	6.48"
Depth	1.1"
Weight	373g

Light Source Specifications

	Multimode	Singlemode
Launch Method	LED	FP Laser
Connector	ST or SC	ST, SC or FC
Center Wavelength (850nm)	850 ±20nm	1310 ± 30nm
Center Wavelength (1300nm)	1290 nm min 1350 nm max	1550 ± 30nm
Spectral Width (FWHM; 850 nm)	35nm	2 nm
Spectral Width (FWHM; 1300 nm)	170nm	2 nm
Output Power (62.5µ core)	-20.0 dB m	-10.0 dB m
Initial Accuracy	0.1 dB	0.1 dB

	Multimode	Singlemode
Fiber Type	Multimode	Singlemode
Battery Life	40hrs.	25hrs.
Operating Temperature	0 to 55°C	0 to 55°C
Storage Temperature	0 to 75°C	0 to 75°C
Width	2.75"	2.75"
Height	4.94"	4.94"
Depth	1.28"	1.28"
Weight	154g	154g

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