



OLTS 5 Optical Loss Test Set

The OLTS 5 Optical Loss Test Set series offers end-to-end singlemode testing at either 1310/1550 nm (OLTS 5-3 model) or 1550/1625 nm (OLTS 5-5 model).

The OLTS 5 may be operated in automatic or manual test modes. In its “two-unit” automatic test mode, a pair of OLTS 5 test sets may be used to measure the end-to-end, bi-directional insertion loss of a pair of singlemode fibers at 1310/1550nm or 1550/1625 nm. Tests are started and controlled by the user from the OLTS 5 configured as the Main unit. Test progress messages and results are displayed on the Remote unit. Full test results can be reviewed and saved in the Main unit. Thresholds may be set to provide pass/fail results.

In its “single-unit” automatic test mode the OLTS 5 can measure bi-directional, dual-wavelength insertion loss of patch cords, or fiber optic cables while they are still on the reel.

In the manual operating mode individual OLTS 5 test sets can operate either as an optical power meter (OPM) or dual-wavelength laser source.

The OLTS 5 can store dual-wavelength, bi-directional insertion loss results for up to 1,000 fibers. Test results can be organized in up to 20 user-named files. Results are transferred to a PC via a serial link. Windows® software is provided to view, edit, and print test results.

The OLTS 5 may be operated from (2) AA alkaline batteries, an optional NiMH rechargeable battery pack, or an AC power adapter.

features

- Integrated dual-wavelength laser source and optical power meter
- Automatic bi-directional, dual-wavelength insertion loss measurement
- Optical power meter and light source manual test modes
- Internal storage for up to 1,000 bi-directional, dual-wavelength test results
- Fast serial data transfer to a PC
- Windows® software to view, edit and print test results
- (AA) alkaline or AC power; internally recharged NiMH battery pack (optional)

applications

- Certify singlemode fiber insertion loss at 1310/ 1550 nm or 1550/ 1625 nm
- Verify optical power levels
- Equipment and cable trouble shooting
- Test results reporting and archiving



OLTS 5 Optical Loss Test Set

specifications

transmit port (laser source) specifications

Model	OLTS 5-3	OLTS 5-5
Center wavelengths	1310 /1550 ± 20 nm	1550/1625 ± 20 nm
Emitter type	Laser	
Safety classification	Class 1 (FDA and IEC)*	
Output power into 9/125 µm (singlemode) fiber	-5 dBm (nominal)	
Stability	± 0.1 dB, up to 8 hours	
Insertion loss and power measurement resolution	0.01 dB	
Available connector types	SC or FC	

receive port (optical power measurement) specifications

Detector type	InGaAs
Calibrated wavelengths	850, 980, 1300, 1310, 1480, 1550, 1625 nm
OPM (manual) mode optical power display range	+ 10 to - 70 dBm
OLTS (automatic) mode insertion loss measurement range	45 dB
Accuracy at -10 dBm, 25°C	± 0.25 dB
Connector types	Thread-on adapter cap mount (see list of available adapter caps at right)

* FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1 amended Q2, 2001

general specifications

Display	128 X 64 dot matrix liquid crystal display
Dimensions (H x W x D)	18.5 X 11.1 X 4.6cm (7.3 X 4.4 X 1.8in)
Weight	0.55 kg (1.2 lbs.)
Operating temperature and humidity	0 to +50°C, 90% RH (non-condensing)
Storage temperature and humidity	-20 to +60°C, 95% RH
Power	2 AA Alkaline or 2-cell NiMH self-contained battery pack or 110/220 VAC adapter/charger
Battery life (typical)	(2) AA - 17 hours; NiMH battery pack - 11 hours

Note: All specifications at room temperature (25°C) unless indicated otherwise.

ordering information

The OLTS 5 test kit includes: (1) OLTS test set, (1) AC adapter, (2) AA alkaline batteries, serial cable, WinTest (Windows®) software, and a carry case. When ordering, specify transmit port connector type after the model number, for example OLTS 5-3 SC. Also specify power cord type. Each test kit will also include (1) adapter cap of the same connector type as the transmit port.

accessories

AC power adapter

4050-00-0112	50/60 Hz, 100-240 VAC to 12 VDC
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adapter caps

8800-00-0224	1.25mm Universal
8800-00-0214	2.5mm Universal
8800-00-0200	FC
8800-00-0209	SC
8800-00-0202	ST
8800-00-0221	E-2000
8800-00-0204	Biconic
8800-00-0203	SMA
8800-00-0225	LC Simplex/Duplex
8800-00-0219	Backplane SC
8800-00-0212	Radial PFO/VFO
8800-00-0210	ESCON
8800-00-0211	DIN 47256
8800-00-0205	FDDI
8800-00-0201	D4
8800-00-0223	1000 mm
8800-00-0226	MU Simplex
8800-00-0230	MT-RJ (A side only)
8800-00-0231	MT-RJ (A side or B side)
8800-00-0232	Nickle Silver 2.5mm
8800-00-0236	Backplane 1.25
8800-00-0240	Hughes 1.6mm

Note: For an up-to-date list of adapter caps contact Noyes Fiber Systems.