

OFTE-930 Ruggedized Hybrid Cable Tester

NATO supplier code: 1583G

Description:

The OFTE-930 ruggedized hybrid cable tester is designed for testing of loss in optical fibers and checking of continuity of copper pairs in hybrid cables, operating in harsh environmental conditions. It combines optical light source, optical power meter and copper wires checker in one common box. The test set is designed to meet the tactical military, broadcast and industry demand. The ruggedized aluminium case makes the unit ideal for field operation.

The memory capacity allows storage and uploading of up to 2000 measurements including memory position or fiber number, wavelength, absolute value or relative value and insertion loss. The tester supports memory download and test report generating. The rechargeable battery ensures long term working with minimal operation costs.



OFTE-930-SM-3K93C-LD31

Features:

- Expanded Beam and ferrule technology harsh environmental connectors
- Hybrid cables – fiber optic testing and copper pairs checking
- Ruggedized aluminium case
- Multimode (MM) or singlemode (SM) applications
- Simultaneous testing of 2 fibers
- Internal memory
- Displayed units: dBm, dB
- High dynamic range
- Up to 4 light sources combinations
- Built-in charger, battery status indicator
- Easy to use with menu navigation

Standard accessories:

- Power charging adaptor
- Soft carrying case
- USB Cable
- Cleaning swabs

Options:

- Reference patchcord

Specifications

Optical Light Source:		
Output power		Note:
LD 850 nm, LED 850, 1300 nm	-26 dBm (62.5/125 µm fiber)	typ. value
LD 1310, 1490, 1550, 1625 nm	-16 dBm	
Stability (1 hour, delta/2):		tested after 20 min warm up temperature 23 ± 1°
LD 850 nm, LED 850, 1300 nm	± 0.03 dB	
LD 1310, 1490, 1550, 1625 nm	± 0.05 dB	

Optical Power Meter:		
Photodetector	1 mm InGaAs	
Working wavelengths	MM: 850, 1300 nm SM: 1310, 1490, 1550, 1625 nm	can be customized
Uncertainty	± 12%	1310, 1550 nm @ -20 dBm
Resolution	0.1	
Dynamic range	-55 dBm to +10 dBm -53 dBm to +17 dBm	1300, 1310, 1490, 1550, 1625 nm 850 nm

Electrical wires checking:	
Electrical wires continuity	
Short circuit	
Isolation	
Electrical contacts –pins interconnection	

General specifications:		
Dimensions	145 x 145 x 56 mm	without connectors
Weight	400 g	with battery
Temperature operating	-10 to +50 °C	
storage	-40 to +70 °C	
Humidity (non condensing)	0 to 95%	
IP rating	IP 54	
Battery working time	> 20 hrs	between battery charging

Ordering Code:

OFTE-930 - XX - XXXXX - XXX

M5 (MM)	MM 50/125 μm
M6	MM 62.5/125 μm
SM	Singlemode

Source wavelength
as below

Connector type ²	
3K93C	SMPTE compatible HDTV connection system 3K.93C series
other	on request

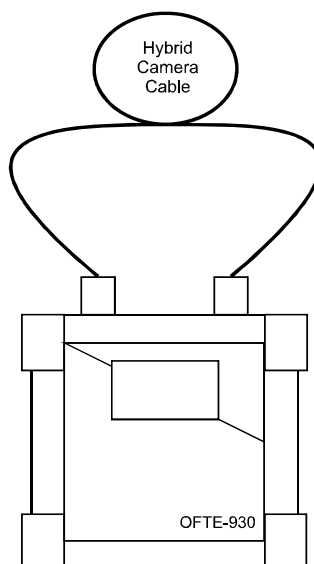
light source code	Description ¹	application
LD650	650 nm visible laser	fiber visual checking
LD850	850 nm LD (VCSEL)	MM fiber testing
LED850	850 nm LED	
LED30	1300 nm LED	
LD850-LED30	850 nm LD + 1300 nm LED	
LD31	1310 nm LD	SM fiber testing
LD55	1550 nm LD	
LD62	1625 nm LD	
LD31-55	1310 + 1550 nm LD	

Note: 1) other wavelengths and port combinations on demand

Accessories:



Soft carrying case



Fiber optic testing
Copper wires continuity
checking

Application:

- Optical networks measurements
- SMPTE compatible HDTV system