EXFO FTB-1 FTB-720 SM MM OTDR Specs Provided by www.AAATesters.com

FTB-720 LAN/WAN Access OTDR

OPTIMIZED FOR MULTIMODE AND SINGLEMODE ACCESS NETWORK TESTING



The ideal construction OTDRs for everyday field testing in any access network. With an iOLM application for both singlemode and multimode testing, it's the most automated and intelligent troubleshooting tool for FTTA, LAN and data centers.

KEY FEATURES

Dynamic range of up to 36 dB

Event dead zone as low as 0.8 meter

Combined singlemode/multimode wavelengths

EF ready: use with external launch mode conditioner for EF-compliant multimode results

Live fiber testing at 1625 nm

iOLM ready: one-touch multiple acquisitions, with clear go/no-go results presented in a straightforward visual format

APPLICATIONS

Access network testing

LAN/WAN characterization

Private networks

Data centers

Fronthaul/backhaul (FTTA, FTTT, remote radio heads, DAS and small cells)





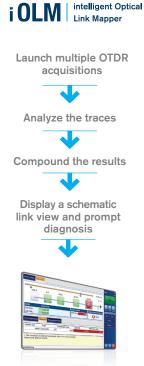
Platform FTB-1 Fiber Inspection Probe FIP-400B

Encircled Flux (EF) Conditioner SPSB-EF-C30



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REMOVING THE COMPLEXITY FROM THE OTDR



US patent 6,612,750

Using a unique and patented automated multipulse and multi-wavelength acquisition approach, the field-proven iOLM surpasses the traditional OTDR and linear view for expertlevel link characterization of any fiber network.

This dynamic OTDR-based application uses EXFO's most advanced algorithms to deliver detailed information and maximum resolution on every element of the link. Thanks to its unmatched intelligence and simplicity, the iOLM converts complex OTDR tests into clear and accurate go/no-go results, through a single button operation.

- > Hardware optimized and intelligent software for maximum performance
- > Multiple acquisitions, multiple wavelengths with one button-all automated
- > Expert-level characterization results in a single, comprehensive report
- > The fastest and hassle-free way to perform full fiber characterization
- > No training required: self-setting device with clear go/no-go results
- > Minimized truck rolls, thanks to the smartest analysis, powered by Link-Aware™ technology

Three ways to benefit from the iOLM:

OTDR combo (Oi code) Run iOLM and OTDR applications on one unit **Upgrade** Add iOLM software option, even while in the field

iOLM only

Order a unit with the iOLM application only

Powered by

HNOLO

TROUBLESHOOTING OF HIGH-SPEED MULTIMODE NETWORKS WITH ENCIRCLED FLUX (PRELIMINARY)



Whether it's for an expanding enterprise-class business or a large-volume data center, new high-speed data networks built with multimode fibers are running under tighter tolerances than ever before. In case of failure, intelligent and accurate test tools are needed to quickly find and fix the fault.



SPSB-EF-C30

Multimode fibers are the trickiest links to test because the test results are highly dependent on each device's output conditions. Troubleshooting with a different unit than the construction unit may mislead the technician or result in the inability to find the fault, creating longer network downtimes.

For multimode fibers, EXFO recommends using an external launch mode conditioner that is encircled flux (EF) compliant. The encircled flux standard (as recommended in TIA-568 via TIA-526-14-B and IEC 61280-4-1 Ed. 2.0) is a way of controlling the source launch conditions so that Tier-2 troubleshooting can be performed with maximum accuracy and consistency.

The use of an external EF-compliant device* such as the SPSB-EF-C30 will ensure a fast and easy way to fix faulty networks.

*For more detailed information about encircled flux compliance, please read the encircled flux test solution specification sheet.

AUTOMATE ASSET MANAGEMENT. PUSH TEST DATA IN THE CLOUD. GET CONNECTED,

EXF0 Connect

EXFO Connect pushes and stores test equipment and test data content automatically in the cloud, allowing you to streamline test operation from build-out to maintenance.



ADDITIONAL SOFTWARE TEST CAPABILITIES ON THE FTB-1 PLATFORM		
EXpert VoiP TEST TOOLS	EXpert VoIP generates a voice-over-IP call directly from the test platform to validate performance during service turn-up and troubleshooting.	
	 Supports a wide range of signaling protocols, including SIP, SCCP, H.246/Megaco and H.523 Supports MOS and R-factor quality metrics Simplifies testing with configurable pass/fail thresholds and RTP metrics 	
EXpert IP TEST TOOLS	 EXpert IP integrates six commonly used datacom test tools into one platform-based application to ensure that field technicians are prepared for a wide range of testing needs. Rapidly performs debugging sequences with VLAN scan and LAN discovery Validates end-to-end ping and traceroute Verifies FTP performance and HTTP availability 	
EXpert IPTV TEST TOOLS	 This powerful IPTV quality assessment solution enables set-top-box emulation and passive monitoring of IPTV streams, allowing quick and easy pass/fail verification of IPTV installations. Real-time video preview Analyzes up to 10 video streams Comprehensive QoS and QoE metrics including MOS score 	

SPECIFICATIONS^a

TECHNICAL SPECIFICATIONS	
Wavelength (nm) ^b	$850 \pm 20, 1300 \pm 20, 1310 \pm 20, 1550 \pm 20, 1625 \pm 15$ (filtered)
Dynamic range (dB) ^{c, d}	27, 26, 36, 34, 34
Event dead zone (m) $^{\rm e}$	0.8
Attenuation dead zone (m) $^{\rm e}$	4, 4.5, 5, 5, 5
Distance range (km)	Multimode: 0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40 Singlemode: 1.25, 2.5, 5, 10, 20, 40, 80, 160, 260
Pulse width (ns)	Multimode: 5, 10, 30, 50, 100, 275, 500, 1000 Singlemode: 5, 10, 30, 50, 100, 275, 500, 1000, 2500, 10 000, 20 000
Launch conditions ^f	Encircled Flux (EF) compliant ⁱ
Linearity (dB/dB) ^b	±0.03
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Sampling resolution (m)	Multimode: 0.04 to 2.5 Singlemode: 0.04 to 5
Sampling points	Up to 256 000
Distance uncertainty (m) ^g	\pm (0.75 + 0.0025 % x distance + sampling resolution)
Measurement time	User-defined (60 min. maximum)
Typical real-time refresh (Hz)	3
Stable source output power (dBm) ^h	−3 (1300 nm), −7 (1550 nm)

NOTES

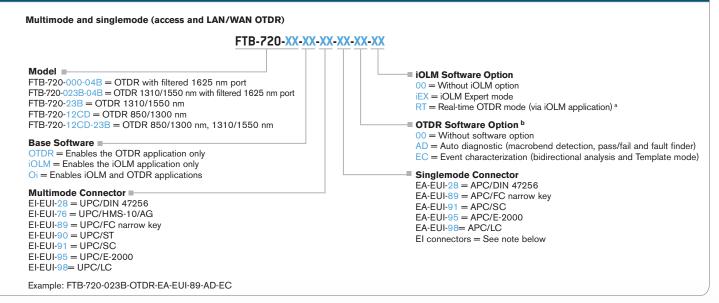
- All specifications valid at 23 °C ± 2 °C with an FC/PC connector, unless otherwise specified; APC connector for FTB-720 singlemode model.
- b. Typical.
- c. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
- d. Multimode dynamic range is specified for 62.5 μm fiber; a 3 dB reduction is seen when testing 50 μm fiber.
- e. Typical dead zone for multimode reflectance below –35 dB and singlemode reflectance below –45 dB, using a 5 ns pulse.
- f. For multimode port, controlled launch conditions allow 50 μm and 62.5 μm multimode fiber testing.
- g. Does not include uncertainty due to fiber index.
- h. Typical output power is given at 1300 nm for multimode output and 1550 nm for singlemode output.
- i. Compliant with Encircle Flux TIA-526-14-B and IEC 61280-4-1 Ed. 2.0 using an external EF conditioner (SPSB-EF-C-30) and Class CPR 1 or 2 if used without.
 - EXFO Assessing Next-Gen Networks

GENERAL SPECIFICATIONS	
Size (H x W x D)	130 mm x 36 mm x 252 mm (5 1 / ₈ in x 1 7 / ₁₆ in x 9 15 / ₁₆ in)
Weight	0.65 kg (1.4 lb)
Temperature Operating Storage	0 °C to 50 °C (32 °F to 122 °F) -40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	0% to 95% non-condensing

LASER SAFETY



ORDERING INFORMATION



Notes

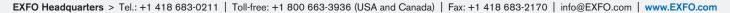
- a. Available with iOLM base software only. This feature is part of the Oi base software.
- b. Available with OTDR and Oi base softwares only.

EI CONNECTORS

To maximize the performance of your OTDR, EXFO recommends using APC connectors. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly in dead zones. APC connectors provide better performance than UPC connectors, thereby improving testing efficiency.

For best results, APC connectors are mandatory on singlemode ports using the iOLM application.

Note: UPC connectors are also available. Simply replace EA-XX by EI-XX in the ordering part number. Additional connectors available are the EI-EUI-76 (UPC/HMS-10/AG) and EI-EUI-90 (UPC/ST).



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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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In case of discrepancy, the Web version takes precedence over any printed literature.



