TK1-V2

OLTS (TIER 1) AND OTDR (TIER 2) FIBER CERTIFICATION KIT FOR THE FTB-1 PLATFORM



Feature(s) of this product is/are protected by one or more of patent appl. US 2012/0307666 A1 and equivalents in other countries.

An all-in-on OLTS (Tier 1) and OTDR/iOLM (Tier 2) testing solution leveraging the power of FasTesT™ and iOLM automated testing.

KEY FEATURES

Lightweight and portable solution designed for field engineers or cell technicians who install, troubleshoot and maintain fiber networks

Ultra-bright 8-inch multitouch screen

Built-in connectivity—choose between gigabit interface, WiFi, Bluetooth and 3G or 4G LTE via USB dongle

Integrated tool combines a visual fault locator, 100% automated inspection probe, broadband power meter and a continuous wave (CW) source mode

Combined singlemode (SM)/multimode (MM) wavelengths (quad model)

APPLICATIONS

FTTx construction

Telecommunications and outside plant networks testing

Data centers

Enterprise structured cabling

OTDR TESTING

Dynamic range up to 46 dB

Event dead zone as low as 0.8 m

i0LM-ready—one-touch multiple acquisitions with clear go/no-go results presented in a straightforward visual format

OLTS TESTING

Unmatched FasTesT" performances—100% automated bidirectional test at two wavelengths under five seconds

Onboard assistant and diagnosis to reduce the risk of reference errors and negative loss

Built-in Encircled-Flux (EF) compliancy as per ANSI/TIA and ISO/IEC

iCERT models to certify multiple industry standards simultaneously

Onboard professional PDF reporting



MaxTester 940/945 Telco OLTS



MaxTester 940/945 Fiber Certifier OLTS

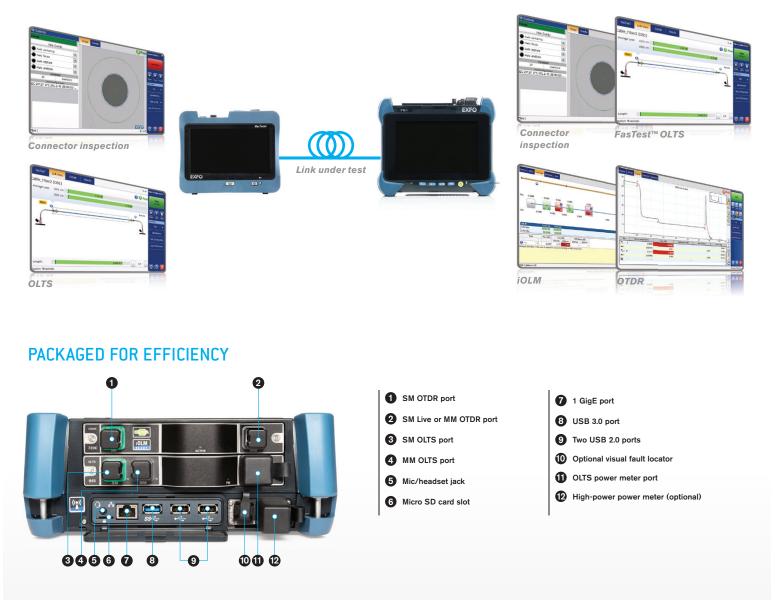


Fiber Inspection Probe FIP-400B (WiFi or USB)



OPTIMIZED PORTABILITY AND POWERFULL TESTING CAPABILITIES

With EXFO's world renowned automated features including FasTesT[™] and iOLM, this solution combines more than a decade of know-how and expertise into one truly powerful test instrument. Optimize test routines during construction with EXFO's FasTesT[™] automated OLTS (Tier 1) test routine, and test fibers bi-directionally and error free within seconds. Locate faults within networks and fully characterize fibers at the push of a button using EXFO's iOLM automated test routine.



CERTIFIER MODELS

The TK1-V2 offers iCERT models for data center and enterprise Tier 1 fiber certification and designed to help installation contractors, network engineers and IT maintenance technicians achieve faster, first-time-right system acceptance.



ONBOARD MULTISTANDARD CERTIFICATION

The iCERT certification tool lets you certify to both cabling and application standards. Simultaneously certify the cabling (i.e. the physical quality of the fiber and its components, such as splices and connectors), as well as the application that the fiber can carry; for instance, IEEE or Fibre Channel.



OLTS TIER 1 BUILT-IN ENCIRCLED FLUX COMPLIANCY

Each TK1-V2 comes with a built-in EF-compliant MM light source. Furthermore, in order to maximize measurement accuracy and avoid invalid results, EXFO designed reference-grade test cords in compliance with ISO/IEC 14763-3 standard requirements.

EXFO's test cords are made from reference-grade connectors, and the fiber used is strictly controlled to ensure proper core size and geometry. For MM testing, this makes it possible to remain within Encircled Flux template limits at the output of the test cord, without the need for an external EF-mode conditioner. These high-quality, reference-grade test cords are less fragile and less expensive than EF-conditioned test cords, helping to reduce your overall equipment cost of ownership.

EXFO's test cords are also color-coded to prevent manipulation errors when they are connected to the test ports and device under test. The user interface displays animated instructions with the same color codes to facilitate the test process.

OTDR TIER 2 ENCIRCLED FLUX COMPLIANCY

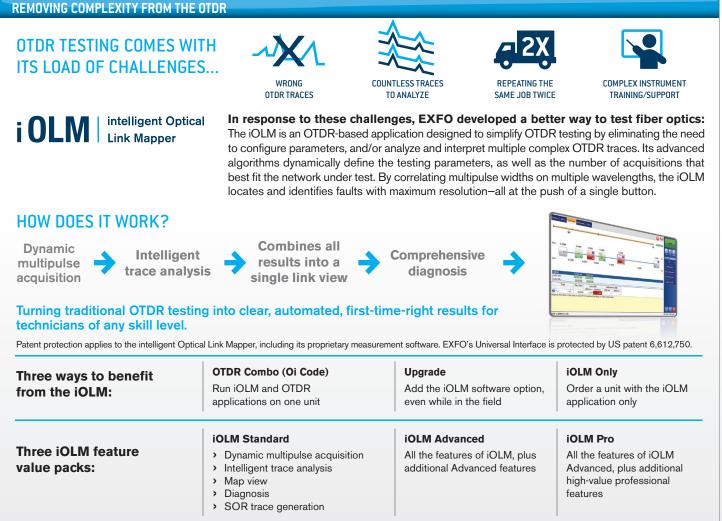
EXFO recommends using an external launch mode conditioner that is Encircled Flux (EF)-compliant. Use of an external EF-compliant device* such as the SPSB-EF-C30 is a fast and easy way to fix faulty networks.

* For more detailed information about EF compliance, please read the Encircled Flux Test Solutions specification sheet.



Color coded test cords

SPSB-EF-C30



Note: Refer to the intelligent Optical Link Mapper (iOLM) specification sheet for the most recent description of the added-value features available in the iOLM Advanced and iOLM Pro packs.





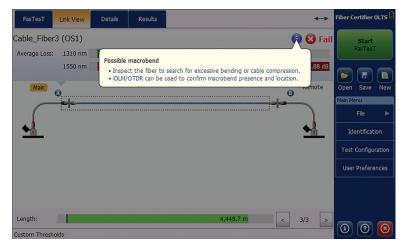
FULL AUTOMATION OF THE OLTS

Test Efficiency

- > FasTesT[™]: acquisition time in less than three seconds
- > Online reporting-live from the field
- > Maximum simplicity and fast-learning curve with on-board user assistance:
 - > Port LED indicators: guide the user through the referencing and testing processes. LED indicators show the user on which optical port to connect the fiber and a beep indicates that the connection is established to confirm continuity.
 - On-board diagnosis: throughout the referencing and testing processes, the instrument delivers real-time information on the test cord health as well as pass/fail results according to pre-set or custom criteria. When performing testing, the instrument delivers diagnosis about the loss, length and can even identify the presence of a macrobend (refer to side picture).
 - > Margin meters: indicate the result status as well as the margin according to preset thresholds.
- > The OLTS includes a Test Again feature allowing the user to re-test bad fibers in three easy steps:
 - 1. Go back to test results
 - 2. Quickly and correctly identify the bad fiber by looking at the pass/fail status
 - 3. Press Test Again

Optimized Test Sequence

- > Real-time continuity feature: The main and remote units emit visual and audible signals to let the technicians on both ends know that a connection has been established on the specific fiber under test. This also allows the technicians to start the test right away, saving time on each fiber tested.
- **Text messaging capabilities:** Allows users to send text messages through the fiber under test faster than other test sets in the industry.



On-board diagnosis helps the technician take proper action

FasTesT	Link View	Details	Results	Messages	Main	+	olts
↔ Cable_Fil	ber1				2016-05-13, 8:45:43 AM	۲	Start FasTesT
↔ Cable_Fil	ber2				2016-05-13, 3:50:39 PM	Q	
🕂 Cable_Fil	ber3				2016-05-13, 4:04:28 PM	۲	Open Save New
↔ Cable_Fil	ber4				2016-05-13, 4:04:35 PM	Q	8.
↔ Cable_Fil	ber5				2016-05-13, 4:04:41 PM	0	🕨 🔹 File 🕨 ト
↔ Cable_Fil	ber6				2016-05-13, 4:04:53 PM	0 6	Identification
↔ Cable_Fil	ber7				2016-05-13, 4:04:59 PM	0	Test Configuration
↔ Cable_Fil	ber8				2016-05-13, 4:05:07 PM	Q	User Preferences
🕂 Cable_Fil	ber9				2016-05-13, 4:05:13 PM	Q	Tools
6	3 🕥 3	9/9			Test Again	DeOte	
vample		3/9					0 0

See results clearly and test again easily

- 1 Results tab lists all the fibers tested in a cable
- 2 Pass/Fail status indicated under Results
- 3 Test Again button allows re-testing a "failed fiber" using the same settings





FULLY AUTOMATED FIBER INSPECTION PROBE

Neglecting to clean, inspect and certify connectors can lead to serious, timeconsuming problems accounting for up to 80% of network failures.

With its two full-fledged units, the TK1-V2 lets you certify connectors at both ends of the fiber, in the same workflow as the Tier-1 certification. Accordingly, it is now easy to include connector certification in your regular method of procedures without compromising the efficiency of your technicians. You'll no longer leave any stones unturned or any connectors uninspected!

Years of experience in the field has given EXFO the insight and expertise to re-engineer a truly unique and innovative fiber inspection probe that greatly simplifies and speeds up this critical step.



Housing a unique automatic focus-adjustment system, the FIP-400B automates each operation in the connector endface inspection sequence. The result: fiber inspection is now a quick, one-step process that can be performed by technicians of all skill levels.

FIVE MODELS TO FIT YOUR BUDGET

The FIP-410B: offers all the basic inspection features needed for manual inspection only.

The semi-automated FIP-420B: has the same features as the FIP-430B, without the automated focus adjustment.

The semi-automated FIP-425B: the wireless version of the semi-automated FIP-420B.

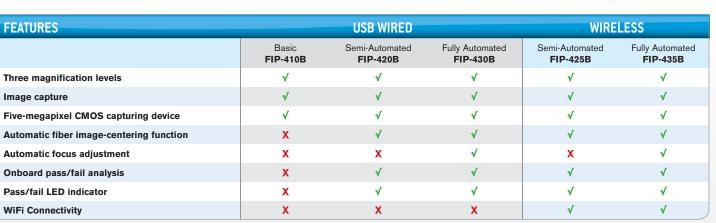
The FIP-430B: complete and fully automated feature set that includes the powerful fiber image-centering system, focus adjustment and optimization, and onboard pass/fail analysis.

The FIP-435B: go one step further with the wireless probe. Includes all FIP-430B features.









Notes

a. Models FIP-430B and FIP-435B.

b. Data sourced from EXFO's case study, with calculation based on typical analysis time.



POWERFUL CONNECTOR ENDFACE IMAGE VIEWING AND ANALYSIS SOFTWARE

- > Automatic pass/fail analysis of the connector endfaces
- > Lightning-fast results in seconds with simple one-touch operation
- > Complete test reports for future referencing
- > Stores images and results for record-keeping



FAST TRACK DATA POST-PROCESSING WITH FASTREPORTER2

Optical test-data analysis involves various challenges, whether for loss, OTDR and iOLM testing, or connector inspection. Designed for off-line analysis, EXFO's FastReporter 2 offers reliable data and report management in a user-friendly environment. This unit packs all the essentials to boost efficiency and productivity for all your optical tests.





Close your jobs faster

Measurements often require extra processing in order to perform proper analysis, and ultimately document and report jobs appropriately. FastReporter 2 includes a series of powerful tools that automate repetitive operations on an unlimited number of files via batch operations.





Wrong limits? Simply recertify

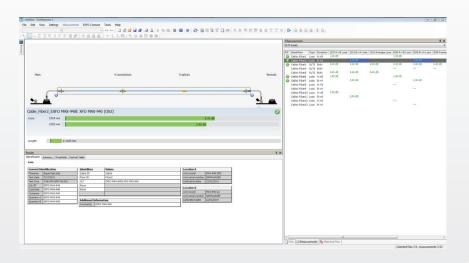
Setting up the wrong limits by selecting the wrong standard or the wrong project is no longer an issue. FastReporter 2 allows you to reset the limits and re-analyze the results to obtain the certification that you need. Instead of redoing tests, you can move on to other projects.



NO. 3 DOCUMENTING YOUR WORK

Create your report fast and like a pro

FastReporter 2 generates professional, customized reports containing all test measurements under multiple formats (PDF, HTML and XLS). Your customer can now easily see and validate the quality of your work.





SPECIFICATIONS FOR FTB-940/945 TELCO OLTS (NETWORK SERVICE PROVIDER MODELS)

POWER METER SPECIFICATIONS ^a	
Detector type	InGaAs
Uncertainty ^b	±(5 % + 32 pW)
Measurement range (dBm)	5 to -75
Calibrated wavelengths (nm)	850, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1383, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650
Tone detection (Hz)	270/330/1000/2000

SOURCE SPECIFICATIONS [®]	
Output power (dBm) c	MM (850 nm/1300 nm): -25 SM1 (1310 nm/1550 nm): 2.5 SM3 (1310 nm/1550 nm/1625 nm): 1 / -1 / -5 SM4 (1310 nm/1490 nm/1550 nm): 1 / -5 / -1
Output power stability (dB)	±0.05 over 8 h
Spectral width (FWHM) (nm)	850 nm: 30 to 60 1300 nm: 100 to 150

FasTesT™ LOSS/LENGTH SPECIFICATIO	NSª		
Testing speed °	FasTesT™ Simplex: 3 seconds (two wavelengths, bidirectional, automated, IL + fiber length) FasTesT™ Simplex: 6 seconds (three wavelengths, bidirectional, automated, IL + ORL + fiber length)		
Wavelengths (nm) °	$\begin{array}{lll} MM \mbox{(LED)} & SM \mbox{(Laser)} \\ 850 \pm 20 & 1310 \pm 20 \\ 1300 \pm 20 & 1490 \pm 10 \\ & 1550 \pm 20 \\ & 1625 \pm 10 \end{array}$		
Launch condition ^d	Encircled Flux (EF) compliancy guaranteed at 50/125 μm MM source port. Within TIA-526-14-B, ISO/IEC 14763-3 and IEC 61280-4-1 EF template limits at the end of an EXFO reference-grade 50/125 μm test cord.		
Loss range (dB) °	MM: 20 SM Simplex: 45 SM Duplex: 50		
Length measurement range (km) ^f	MM: 20 SM: 200		
Length measurement uncertainty °	Duplex: ±(0.5 m + 0.5 % x length) Simplex: ±(1 m + 0.5 % x length)		
ORL measurement range (dB) c, g	50		
ORL measurement uncertainty (dB) c, g, h	±1		

Notes

a. All specifications valid at 23 °C ± 1 °C and 1550 nm, on batteries and after 15 minutes of warm up, unless otherwise specified.

b. Uncertainty is valid at calibration conditions.

c. Typical.

d. Measured at 850 nm with SC connector.

e. Typical value, at 850 nm for MM and 1550 nm for SM.

f. At 1300 nm for MM and 1550 nm for SM.

g. ORL measurement available on MAX-945 singlemode wavelengths only.

h. No discrete reflectance greater than -65 dB. Up to 45 dB.





SPECIFICATIONS FOR FTB-940/945 FIBER CERTIFIER OLTS (ENTERPRISE MODELS)

POWER METER SPECIFICATIONS	
Input connector	Interchangeable adapter (LC, SC or FC) ^b
Detector type	InGaAs
Uncertainty °	±(5 % + 32 pW)
Measurement range (dBm)	5 to -75
Calibrated wavelengths (nm)	8850, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1383, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650
Tone detection (Hz)	270/330/1000/2000

SOURCE SPECIFICATIONS	
Output power (dBm) ^d	MM: -25 SM: 2.5
Output power stability (dB)	±0.05 over 8 h
Spectral width (FWHM) (nm)	850 nm: 30 to 60 1300 nm: 100 to 150

FASTEST [™] LOSS/LENGTH SPECIFIC	ATIONS *			
Testing speed ^d	FasTesT™ Duplex: 3 seconds (two wavelengths, one direction, automated, IL + fiber length) FasTesT™ Simplex: 5 seconds (two wavelengths, bidirectional, automated, IL + ORL + fiber length)			
Input/Output connectors	Interchangeable adapter (LC, SC or FC) ^b			
Wavelengths (nm) ^d	MM (LED) SM (Laser) 850 ± 20 1310 ± 20 1300 ± 20 1550 ± 20			
Launch condition ^e	EF compliancy guaranteed at MM source port Within TIA-526-14-B, ISO/IEC 14763-3 and IEC 61280-4-1 Encircled Flux template limits at the end of an EXFO reference-grade 50/125 μm test cord			
Length measurement range (km)	MM: 20 ^f SM: 200			
Length measurement uncertainty d, g	±(0.5 m + 0.5 % x length)			
ORL measurement range (dB) d, h	50			
ORL measurement uncertainty (dB) ^{d, h, i}	±1			

Notes

a. At 23 °C \pm 1 °C and 1550 nm, on batteries and after 15 minutes of warm up, unless specified otherwise.

b. Specifications are provided with FC type connectors.

c. Uncertainty is valid at calibration conditions.

d. Typical.

e. Measured at 850 nm with SC connector.

- f. At 1300 nm.
- g. In duplex.

h. ORL measurement available on MAX-945 singlemode wavelengths only.

i. No discrete reflectance greater than –65 dB. Up to 45 dB.

SPECIFICATIONS FOR OTDRS

Refer to the individual OTDR spec sheets for details:

FTB-720C: www.exfo.com/library/technical-resources/specification-sheets/bu3-ftb-720c-access-otdr

FTB-730C: www.exfo.com/library/technical-resources/specification-sheets/bu3-ftb-730c-pon-fttx-mdu-otdr

FTB-735C: www.exfo.com/library/technical-resources/specification-sheets/bu3-ftb-735c-metro-pon-fttx-mdu-otdr

FTB-750C: www.exfo.com/library/technical-resources/specification-sheets/bu3-ftb-750c-metro-long-haul-otdr





OLTS connector ¹ EI-EUI-28 = UPC/DIN 47256 ^k EI-EUI-89 = UPC/FC narrow key ¹ EI-EUI-90 = UPC/ST ^k Model TK1-V2 = FTB-1v2 Platform Display ■ S1 = Standard display S2 = Enhanced display for outdoor use EI-EUI-91 = UPC/SC [|] EI-EUI-95 = UPC/E-2000 ^k EI-EUI-98 = UPC/LC [|] WiFi/Bluetooth option ■ 00 = Without RF components RF = With RF capability (WiFi and Bluetooth) EA-EUI-28 = APC/DIN 47256 ^k EA-EUI-89 = APC/FC narrow key EA-EUI-91 = APC/SC Memory ■ 64G = 64 GB internal memory (flash) EA-EUI-95 = APC/E-2000EA-EUI-98 = APC/LC Power meter OLTS 00 = Without power meter PM2X = Power meter; GeX detector VPM2X = VFL and power meter; GeX detector FIB-940-SM1 = IL and length measurement SM 1310/1550 nm FIB-945-SM1 = IL, length and ORL measurement SM 1310/1550 nm FIB-945-SM3 = IL, length and ORL measurement SM 1310/1550/1625 nm FIB-945-SM4 = IL, length and ORL measurement SM 1310/1550/1625 nm FIB-945-CERF-01-OUAD = Quad Port 1: 850/1300 nm IL and length measurement Port 2: 1310/1550 nm IL, length and ORL measurement Power meter connector adapter a Power meter connector adapter -FOA-12 = Biconic FOA-14 = NEC D4: PC, SPC, UPC FOA-16 = SMA/905, SMA/906 FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC FOA-28 = DIN 47256, DIN 47256/APC FOA-32 = ST: ST/PC, ST/SPC, ST/UPC FOA-54B = SC: SC/PC, SC/SPC, SC/UPC, SC/APC FOA-58 = Brainall FC **OTDR** connector EA-EUI-28 = APC/DIN 47256EA-EUI-89 = APC/FC narrow key FA-FUI-91 = APC/SCFOA-96 = C-2000/APC FOA-98 = L2000/APC FOA-98 = LC FOA-99 = MU EA-EUI-95 = APC/E-2000EA-EUI-98 = APC/LCEl connectors = See section on last page iOLM software option Inspection probe models ^b 00 = iOLM standard 00 = Without inspection probe FP410B = Digital video inspection probe Triple magnification FP420B = Analysis digital video inspection probe iADV = iOLM advanced iPRO = iOLM pro iLOOP = iOLM loopback mode iCERT = iOLM Tier 2 certification Automated pass/fail analysis Triple magnification Autocentering FP425B = Wireless digital video inspection probe ° Base software OTDR = Enables OTDR application only OLM = Enables iOLM application only Oi = Enables OTDR and iOLM applications Automated pass/fail analysis Triple magnification Autocentering OTDR FTB-720C-SM1-XX = SM 1310/1550 nm FTB-720C-SM2 = SM FP430B = Automated analysis digital video inspection probe Automated focus Automated pass/fail analysis Triple magnification Port 1: 1310/1550 nm ММ FTB-720C-Q1 = Autocentering • Wireless analysis digital video inspection probe ° Automated focus Automated focus Triple magnification Autocentering Port 1: 850/1300 nm FP435B = FTB-720C-Q1-QUAD Base tips APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC Extra FIP-400B tips d Extra FIP-400B tips ^a Bulkhead tips HIP1-400-FC-APC = FCAPC tip for bulkhead adapter FIPT-400-FC-APC = FCAPC tip for bulkhead adapters FIPT-400-LC = LC tip for bulkhead adapters FIPT-400-MU = MU tip for bulkhead adapters FIPT-400-MU = MU tip for bulkhead adapters FIPT-400-SC-APC = SC APC tip for bulkhead adapter ^f FIPT-400-ST = ST tip for bulkhead adapter FTB-735C-SM2 = SM

Patchcord tips

FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules APC FIPT-400-U12M2 = Universal patchcord tip for 1.6 mm ferrules FIPT-400-U20M2 = Universal patchcord tip for 2.0 mm ferrules (D4, Lemo) FIPT-400-U25M = Universal patchcord tip for 2.5 mm ferrules ° FIPT-400-U25MA = Universal patchcord tip for 2.5 mm ferrules APC ' = Universal patchcord tip for 1.25 mm ferrules Multifiber tips⁹ Multifiber tips⁹ FIPT-400-MTP2 = MTP/MPO UPC tip for bulkhead adapter FIPT-400-MTP42 = MTP/MPO APC tip for bulkhead adapter FIPT-400-MTP-MTR = MTP/MPO multirow UPC tip for bulkhead adapter FIPT-400-MTP-MTRA = MTP/MPO multirow APC tip for bulkhead adapter Tip kits FIPT-400-LC-K = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters, FIPT-400-LC-APC: LC/APC tip for bulkhead adapter, FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules, FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules APC FIPT-400-LC-K-APC = LC tip kit including: FIPT-400-LC-APC: LC/APC tip for bulkhead adapter, and FIPT-400-U12MA: Universal patchcord tip for 1.25 mm ferrules APC FIPT-400-LC-K-UPC = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters, and FIPT-400-LC-K-UPC = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters, FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules FIPT-400-U12M: Universal patchcord tip for bulkhead adapter ° Tip kits

ORDERING INFORMATION—NETWORK SERVICE PROVIDER MODELS

Port 2: Filtered 1625 nm for live fiber testing Port 2: SM hardware ready and field upgradable to 1310/1550 nm UAD = Quad Port 1: 850/1300 nm Port 2: 1310/1550 nm
 Port 1: 1310/1550 nm

 Port 1: 1310/1550 nm

 Port 2: Filtered 1625 nm for live fiber testing

 FTB-730C-SM3 = SM 1310/1550/1625 nm

 FTB-730C-SM8 = SM
 Port 2: Filtered 1625 nm for live fiber testing FTB-730C-SM6 = SM, filtered 1625 nm for live fiber testing FTB-730C-SM7 = SM, filtered 1650 nm for live fiber testing FTB-735C-SM1 = SM 1310/1550 nm FIB-735C-SM2 = SM Port 1: 1310/1550 nm Port 2: Filtered 1625 nm for live fiber testing FIB-735C-SM3 = SM 1310/1550/1625 nm FIB-750C-SM1 = SM 1310/1550 nm FIB-750C-SM3 = SM 1310/1550/1625 nm Software option Software option 00 = Without any software option IPT = Ping and traceroute functionalities EXpert-VoIP = RTP-based call testing software application, including packet loss analysis, jitter measurement and complete voice quality metrics EXpert-IP = IP/Ethernet test suite, with tests including FTP performance, HTTP availability, EXpert-IP = IP/Enternet test source, with tests including PTP performance, PTTP availability VLAN scan, LAN discovery, ping, traceroute and IP/Ethernet port statistics (license for a single platform) EXpert-IPTV = IPTV test suite EXpert-IPTV = IPTV test suite EXpert-IPTP-Bundle = Triple-play bundle for voice, video and data testing; includes EXpert IP Test Tools, EXpert IPTV Test Tools, EXpert VoIP Test Tools and EXpert SIP Test Tools and Expert SIP EXpert-SIP = SIP call-signaling support^h EXpert-SCCP = SCCP call-signaling support^h EXpert-H.323 = H.323 call-signaling support^h EXpert-H.248 = H.248/Megaco call-signaling support^h FR2-PL = FastReporter 2 software Fiber characterization package FR2-PL-LB = FastReporter 2 software Fiber characterization package and iOLM Loopback mode

Example: TK1-V2-S1-RF-64G-PM2X-FOA-12-FP420B-APC-FIPT-400-FC-APC-IPT-FTB-720C-Q1-Oi-iADV-EA-EUI-28-FTB-940-SM1-EA-EUI-89

Notes

- a. Available if power meter is selected.
- b. Includes ConnectorMax2 software.
- c. Requires RF capability (WiFi and Bluetooth hardware option).
- d. This list represents a selection of fiber inspection tips that covers the most common connectors and applications but does not reflect all the tips available. EXFO offers a wide range of inspection tips, bulkhead adaptors and kits to cover many more connector types and different applications. Please contact your local EXFO sales representative or visit www.EXFO.com/FIPtips for more information.
- e. Included when UPC base tips are selected.
- f. Included when APC base tips are selected.
- g. Includes a bulkhead adapter for patchcord inspection.
- h. Available if EXpert VoIP selected.

- i. Please refer to the iOLM specification sheet for the complete and most recent description of these value packs.
- Connector adapters are the same on SM source ports, MM source ports and power meter ports. MM connectors are always UPC.
- k. Not available for iCERT and FTB-945 models.
- I. For FTB-945 model, a hybrid REF grade test cord will be supplied when an EI (UPC) interface is required on the SM port. See El section in this document.



ORDERING INFORMATION—ENTERPRISE MODELS Model TK1-V2 = FTB-1v2 Platform OLTS connector ^j EI-EUI-89 = UPC/FC narrow key ^k EI-EUI-91 = UPC/SC ^k EI-EUI-91 = UPC/SC ^k Display ■ S1 = Standard display S2 = Enhanced display for outdoor use -FL B = UPC/LCEA-EUI-89 = APC/FC narrow key EA-EUI-91 = APC/SC EA-EUI-98 = APC/LC WiFi/Bluetooth option ■ 00 = Without RF components RF = With RF capability (WiFi and Bluetooth) **OLTS** certifier OLTS certifier FTB-940-iCERT-SM1 = Certification, IL and length measurement SM 1310/1550 nm FTB-940-iCERT-Q1= Quad ready Port 1: 850/1300 nm IL and length measurement Port 2: SM hardware ready and field upgradable to 1310/1550 nm FTD 240-iCERT-Q1=Quad ready Memory ■ 64G = 64 GB internal memory (flash) Power meter FTB-940-iCERT-Q1-QUAD = Quad00 = Without power meter PM2X = Power meter; GeX detector VPM2X = VFL and power meter; GeX detector Port 1: 850/1300 nm IL and length measurement Port 2: 1310/1550 nm IL and length measurement FTB-945-iCERT-Q1-QUAD = Quad Port 1: 850/1300 nm IL and length measurement Port 2: 1310/1550 nm IL, length and ORL measurement Power meter connector adapter a Power meter connector adapter * FOA-12 = Biconic FOA-14 = NEC D4: PC, SPC, UPC FOA-16 = SMA/905, SMA/906 FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC FOA-23 = DIN 47256, DIN 47256/APC FOA-34 = SC: SC/PC, SC/SPC, ST/UPC FOA-36 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC FOA-36 = Radial EC FOA-96 = LC FOA-99 = MU OTDR connector EA-EUI-28 = APC/DIN 47256 EA-EUI-89 = APC/FC narrow key EA-EUI-91 = APC/SC EA-EUI-95 = APC/E-2000 EA-EUI-98 = APC/LCEl connectors = See section on next page iOLM software option ' 00 = iOLM standard iADV = iOLM advanced Inspection probe models ^b iPRO = iOLM pro00 = Without inspection probe FP410B = Digital video inspection probe Triple magnification FP420B = Analysis digital video inspection probe iLOOP = iOLM loopback mode iCERT = iOLM Tier 2 certification Base software OTDR = Enables OTDR application only OLM = Enables iOLM application only Oi = Enables OTDR and iOLM applications Automated pass/fail analysis Triple magnification Autocentering FP425B = Wireless digital video inspection probe ° OTDR Automated pass/fail analysis Triple magnification Autocentering FTB-720C-Q1 = MM OTDR module Port 1: 850/1300 nm, 27/29 dB (50/125 and 62.5/125 µm) Port 2: SM hardware ready and field upgradable to 1310/1550 nm FTB-720C-Q1-QUAD = Quad OTDR module Port 1: 850/1300 nm, 27/29 dB (50/125 and 62.5/125 µm) FP430B = Automated analysis digital video inspection probe Automated focus Automated pass/fail analysis Triple magnification Port 2: 1310/1550 nm, 36/35 dB (9/125 µm) Autocentering • Wireless analysis digital video inspection probe ° Automated focus Automated focus Triple magnification Autocentering Software option 00 = Without any software option IPT = Ping and traceroute functionalities EXpert-VoIP = RTP-based call testing software application, including packet loss analysis, jitter measurement and complete voice quality metrics EXpert-IP = IP/Ethernet test suite, with tests including FTP performance, HTTP availability, VLAN scan, LAN discovery, ping, traceroute and IP/Ethernet port statistics (license for a single platform) EXpert-IPTV = IPTV test suite Software option FP435B = Base tips APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC Expert-IPTV = IPTV test suite Expert-IPP-Bundle = Triple-play bundle for voice, video and data testing; includes EXpert IPP-Bundle = Triple-play bundle for voice, video and data testing; includes Expert IP Test Tools, EXpert IPTV Test Tools, EXpert VoIP Test Tools and Expert SIP Extra FIP-400B tips d Extra FIP-400B tips " Buikhead tips FIPT-400-FC-APC = FCAPC tip for buikhead adapter FIPT-400-FC-SC = FC and SC tip for buikhead adapter e FIPT-400-LC-APC = LC tip for buikhead adapters FIPT-400-LC-APC = LC/APC tip for buikhead adapter FIPT-400-MU = MU tip for buikhead adapters FIPT-400-ST = ST tip for buikhead adapter ' Test Tools and Expert SIP Expert-SIP = SIP call-signaling support^h EXpert-SCCP = SCCP call-signaling support^h EXpert-H.243 = H.248/Megaco call-signaling support^h EXpert-H.248 = H.248/Megaco call-signaling support^h FR2-PL = FastReporter 2 software Fiber characterization package FR2-PL-LB = FastReporter 2 software Eiber characterization package and iOLM Fiber characterization package and iOLM Loopback mode Patchcord tips FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules APC FIPT-400-U12M2 = Universal patchcord tip for 1.6 mm ferrules FIPT-400-U20M2 = Universal patchcord tip for 2.0 mm ferrules (D4, Lemo) FIPT-400-U25M = Universal patchcord tip for 2.5 mm ferrules ° FIPT-400-U25MA = Universal patchcord tip for 2.5 mm ferrules APC ' = Universal patchcord tip for 1.25 mm ferrules Example: TK1-V2-S1-RF-64G-PM2X-FOA-12-FP420B-APC-FIPT-400-FC-APC-IPT-FTB-720C-O1-Oi-iADV-EA-FUI-28-FTB-940-iCERT-SM1-EA-FUI-89 Multifiber tips⁹ Multifiber tips⁹ FIPT-400-MTP2 = MTP/MPO UPC tip for bulkhead adapter FIPT-400-MTP42 = MTP/MPO APC tip for bulkhead adapter FIPT-400-MTP-MTR = MTP/MPO multirow UPC tip for bulkhead adapter FIPT-400-MTP-MTRA = MTP/MPO multirow APC tip for bulkhead adapter Tip kits FIPT-400-LC-K = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters, FIPT-400-LC-APC: LC/APC tip for bulkhead adapter, FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules, FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules APC FIPT-400-LC-K-APC = LC tip kit including: FIPT-400-LC-APC: LC/APC tip for bulkhead adapter, and FIPT-400-U12MA: Universal patchcord tip for 1.25 mm ferrules APC FIPT-400-LC-K-UPC = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters, and FIPT-400-LC-K-UPC = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters, FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules FIPT-400-U12M: Universal patchcord tip for bulkhead adapter ° Tip kits

Notes

- a. Available if power meter is selected.
- b. Includes ConnectorMax2 software.
- c. Requires RF capability (WiFi and Bluetooth hardware option).
- d. This list represents a selection of fiber inspection tips that covers the most common connectors and applications but does not reflect all the tips available. EXFO offers a wide range of inspection tips, bulkhead adaptors and kits to cover many more connector types and different applications. Please contact your local EXFO sales representative or visit www.EXFO.com/FIPtips for more information.
- e. Included when UPC base tips are selected.
- f. Included when APC base tips are selected.

- g. Includes a bulkhead adapter for patchcord inspection.
- h. Available if EXpert VoIP selected.
- Please refer to the iOLM specification sheet for the complete and most recent description of these value packs.
- Connector adapters are the same on SM source ports, MM source ports and power meter ports. MM connectors are always UPC.
- k. For FTB-945 model, a hybrid REF grade test cord will be supplied when an EI (UPC) interface is required on the SM port. See EI section in this document.



EXEO

EI AND EA CONNECTORS



To maximize the performance of your FTBx-945 ORL measurements, APC connectors are mandatory on the SM port. These connectors generate lower reflectance, which is a critical parameter that affects performance for ORL measurement. APC connectors provide better performance than UPC connectors, thereby improving testing efficiency.

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 dead zones. APC connectors provide better performances than UPC connectors, thereby improving testing efficiency. 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).

EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | www.EXFO.com

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

EXFO is certified ISO 9001 and attests to the quality of these products. 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.

For the most recent version of this spec sheet, please go to www.EXFO.com/specs. In case of discrepancy, the web version takes precedence over any printed literature.

Printed in Canada 18/03