

MaxTester 940/945 Fiber Certifier OLTS

OPTIMIZED FOR DATA CENTER AND ENTERPRISE TIER-1 FIBER CERTIFICATION



FASTEST

EF COMPLIANT

EXFO | Connect



DATA CENTER
SOLUTION

Fully featured tier-1 fiber certifier with a tablet-inspired design and short learning curve.
Optimized, clear and fast first-time-right data center system acceptance.

KEY FEATURES

7-inch, high-resolution touchscreen—the widest screen on the market

Leading FasTest™ performances: certifies two fibers at two wavelengths in 2.6 seconds

Onboard assistant and diagnosis for elimination of reference errors and negative loss

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

100% automated fiber inspection: one-step process with pass/fail analysis at both ends of the fiber

Certifies to multiple industry standards simultaneously

Onboard professional PDF reporting

Optional Optical Return Loss measure (MAX-945)

Batch processing of results with FastReporter 2 software

Best-in-class singlemode distance range of 160 km

EXFO Connect-ready for cloud-based test asset management

APPLICATIONS

Data centers

Enterprise structured cabling

COMPLEMENTARY PRODUCTS



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



Data Post-Processing Software
FastReporter 2

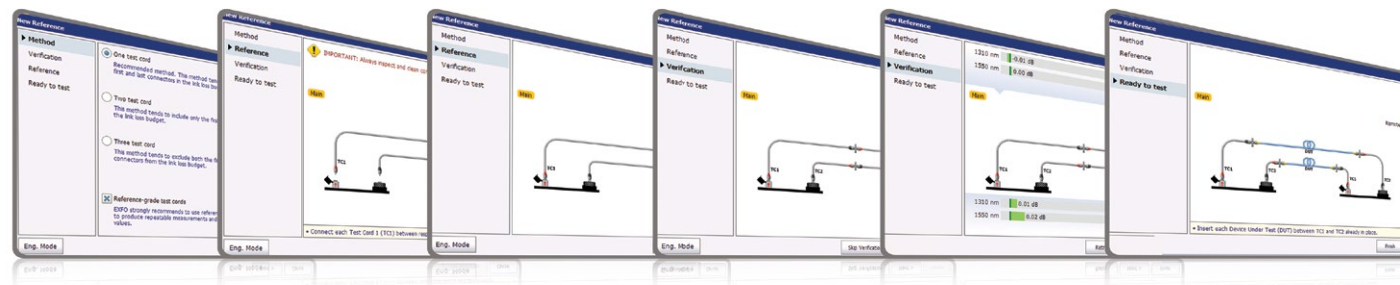


OTDR/iOLM
FTB-720C QUAD OTDR/iOLM

EXFO

ONBOARD ASSISTANCE AND DIAGNOSIS

The MAX-940/945 Fiber Certifier provides a foolproof method against test-cord reference mistakes and negative loss thanks to its step-by-step wizard that guides technicians through the referencing and verification process, as per industry standards. The MAX-940/945 Fiber Certifier goes even further by diagnosing the possible causes for fail results and provides guidance to fix issues.



BUILT-IN ENCIRCLED FLUX COMPLIANCY

Each MaxTester 940/945 Fiber Certifier comes with a built-in Encircled Flux (EF)-compliant multimode 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 multimode 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.



THREE YEARS OF PEACE OF MIND FOR REPAIRS AND CALIBRATION



The MAX-940/945 Fiber Certifier has been rigorously tested to guarantee the highest standards of reliability and durability. This is why we feel so confident about offering a warranty and a recommended calibration interval of three years.

You can safely use this highly-reliable instrument for accurate test results while significantly reducing your certifier's cost of ownership (your cost of calibration and the related downtime will be divided by a factor of three).

OPTICAL PLUG-AND-PLAY OPTIONS

The MaxTester 940/945 features plug-and-play optical options that can be purchased whenever you need them, at the time of your order or later on. In either case, installation is a snap: you can do it yourself with no need for any software updates.

Visual Fault Locator (VFL)

The plug-and-play VFL easily identifies breaks, bends, faulty connectors and splices, in addition to other causes of signal loss. This basic, yet essential, troubleshooting tool should be part of every field technician's toolbox. Visually locating faults by creating a bright-red glow at the exact location of the fault on singlemode or multimode fibers, it can detect faults over distances of up to 5 km.



Quad Option for Multimode Units

The MAX-940/945 Fiber Certifier multimode units offer maximum flexibility by featuring a unique quad-ready ability. Upgrading to the quad option is easy and instantaneous thanks to a software key that activates singlemode wavelengths that are precalibrated at the factory to enable you to test singlemode fibers immediately after the upgrade, without any other constraints. This will save you both time and money.

Test Efficiency

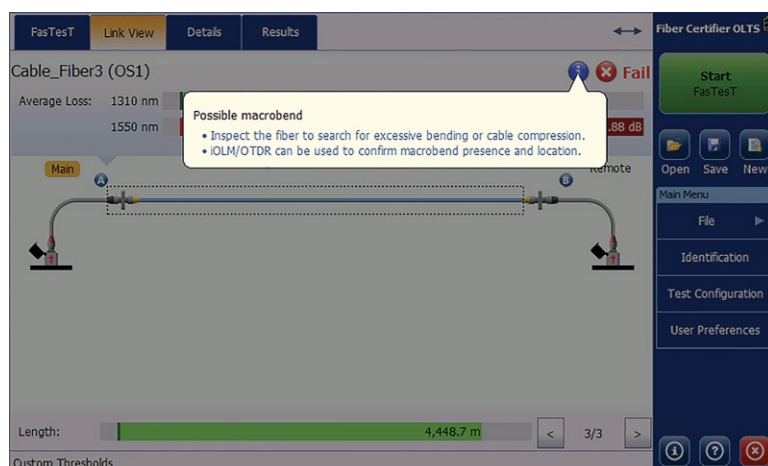
- › FasTesT™: acquisition time less than three seconds
- › Online reporting—live from the field
- › Maximum simplicity and fast-learning curve with on-board user assistance:
 - › **Port LED indicators:** guide the user through the referencing and testing processes. LED indicators show the user on which 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 MAX-940/945 includes a *Test Again* feature allowing the user to re-test bad fibers in three easy steps:

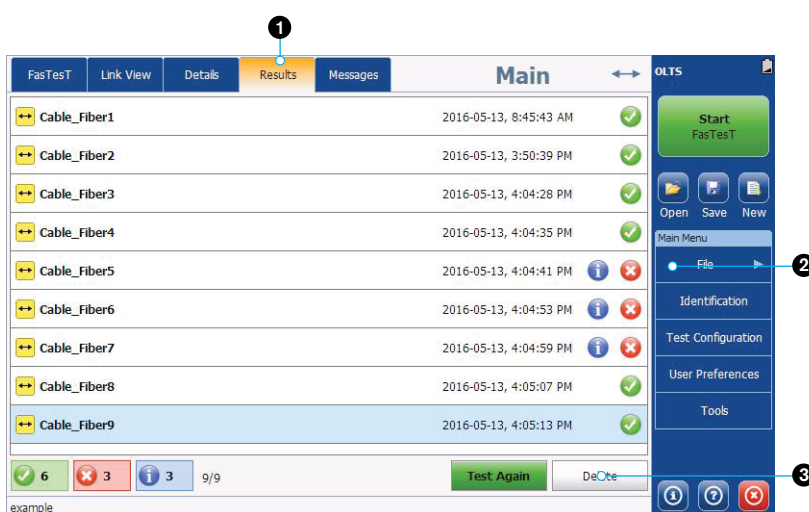
1. Go back in test results
2. Quickly and correctly identify the bad fiber by looking at the pass/fail status
3. Press *Test Again*

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



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, time-consuming problems accounting for up to 80% of network failures.

With its two full-fledged units, the MAX-940/945 Fiber Certifier 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.

100%
Automated^a

1-step
Process^a

57%
Shorter Test Time^b



FEATURES	USB WIRED			WIRELESS	
	Basic FIP-410B	Semi-Automated FIP-420B	Fully Automated FIP-430B	Semi-Automated FIP-425B	Fully Automated FIP-435B
Three magnification levels	✓	✓	✓	✓	✓
Image capture	✓	✓	✓	✓	✓
Five-megapixel CMOS capturing device	✓	✓	✓	✓	✓
Automatic fiber image-centering function	✗	✓	✓	✓	✓
Automatic focus adjustment	✗	✗	✓	✗	✓
Onboard pass/fail analysis	✗	✓	✓	✓	✓
Pass/fail LED indicator	✗	✓	✓	✓	✓
WiFi Connectivity	✗	✗	✗	✓	✓

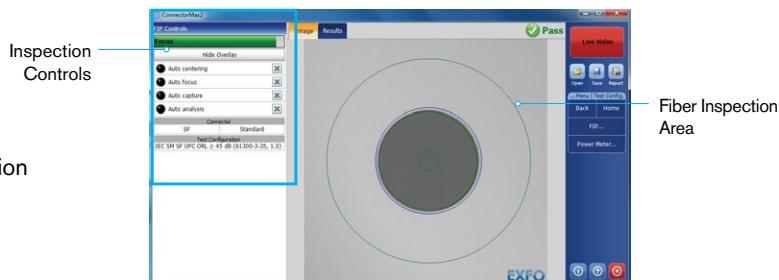
Notes

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

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

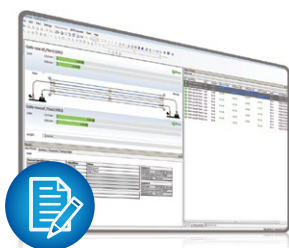
POWERFUL CONNECTOR ENDFACE IMAGE VIEWING AND ANALYSIS SOFTWARE

- › 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.



CHALLENGE NO. 1 EDITING MULTIPLE MEASUREMENT FILES

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.



CHALLENGE NO. 2 ANALYZING MULTIPLE MEASUREMENT FILES

Wrong limits? Simply recertify

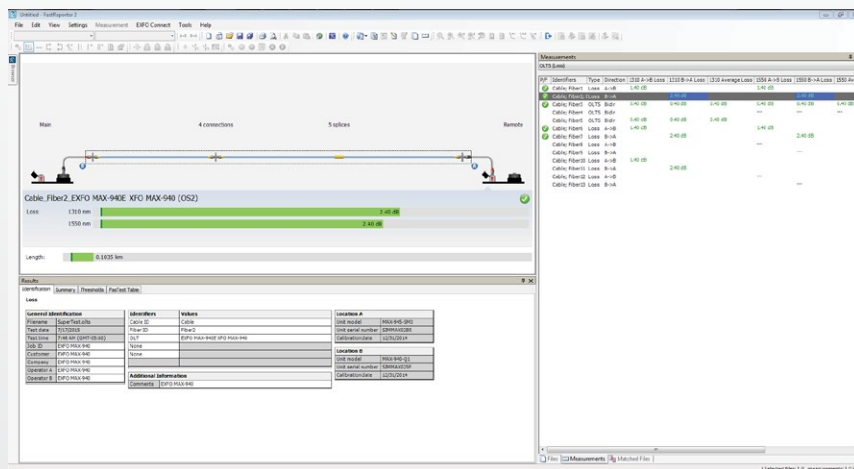
Setting up the wrong limits by selecting the wrong standard or the wrong project is no longer an issue. FastReporter 2 allows you to reset the limits and re-analyze the results to obtain the certification that you need. Instead of redoing tests, you can move on to other projects.



CHALLENGE NO. 3 DOCUMENTING YOUR WORK

Create your report fast and like a pro

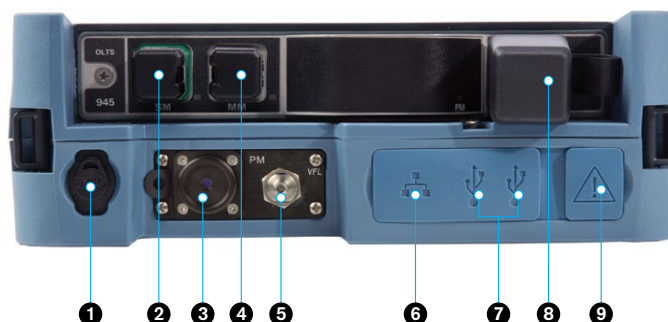
FastReporter 2 generates professional, customized reports containing all test measurements under multiple formats (PDF, HTML and XLS). Your customer can now easily see and validate the quality of your work.



SMALL ENOUGH TO BE HANDHELD. LARGE ENOUGH FOR FULL-SCREEN VIEWING.

PACKAGED FOR EFFICIENCY

- | | |
|---|--|
| 1 Stylus | 8 InGaAs power meter |
| 2 Singlemode source port | 9 AC adapter |
| 3 High-power power meter (optional, for MAX-945 only) | 10 Home/switch application and screen capture (hold) |
| 4 Multimode source port | 11 Power on/off/standby |
| 5 Visual fault locator | 12 Battery LED status |
| 6 10/100 Mbit/s Ethernet port | 13 Built-in WiFi/Bluetooth |
| 7 Two USB 2.0 ports | 14 Stand support |



SOFTWARE UTILITIES

Software update	Ensure that your MaxTester 940/945 is up-to-date with the latest software.
VNC configuration	Virtual Network Computing utility allows technicians to easily remote control the unit via a computer or laptop.
Microsoft Internet Explorer	Access the Web directly from your device interface.
Data mover	Transfer all your daily test results quickly and easily.
Centralized documentation	Instant access to user guides and other relevant documents.
Wallpapers	Enhance your work environment with colorful and scenic backgrounds.
PDF Reader	View your reports in PDF format.
Bluetooth file sharing	Share files between your MaxTester 940/945 and any Bluetooth-enabled device.
WiFi connection	Wireless inspection probe interface, upload test results and browse the Internet.
Inspection probe	USB probe to inspect and analyze connectors.

POWER METER SPECIFICATIONS ^a

	Standard	Optional High power ^b
Input connector	Interchangeable adapter (LC, SC or FC) ^c	Interchangeable adapters (more than 10 types, including LC, SC, FC, ST, E2000, MU)
Detector type	InGaAs	GeX
Measurement range (dBm)	5 to -75	25 to -50 ^e
Uncertainty ^d	±(5 % + 32 pW)	±(5 % + 10 nW)
Wavelengths range (nm)	800 to 1650	800 to 1650

FASTEST™ LOSS/LENGTH SPECIFICATIONS ^a

Testing speed ^e	FasTesT™ Duplex: 2.6 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) ^c		
Wavelengths (nm) ^e	Quad 850 ± 20 1300 ± 20 1310 ± 20 1550 ± 20	MM 850 ± 20 1300 ± 20	SM 1310 ± 20 1550 ± 20
Source type	LED (multimode) Laser (singlemode)	LED	Laser
Launch condition ^f	EF compliancy guaranteed at multimode 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)	Multimode: 20 ^g Singlemode: 160		
Length measurement uncertainty ^{e, h}	±(0.5 m + 0.5 % x length)		
ORL measurement range (dB) ^{b, e}	50		
ORL measurement uncertainty (dB) ^{b, e, i}	± 1		
Source			
Output power (dBm) ^e	Multimode: -25 Singlemode: 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		

Notes

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

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

c. Specifications are provided with FC type connectors.

d. Uncertainty is valid at calibration conditions.

e. Typical.

f. Measured at 850 nm with SC connector.

g. At 1300 nm.

h. In duplex.

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

VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

Laser, 650 nm \pm 10 nm

CW/Modulate 1 Hz

Typical P_{out} in 62.5/125 μ m: > -1.5 dBm (0.7 mW)

Laser safety: Class 2

LASER SAFETY

If VFL option is available



ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating	-10 °C to 50 °C (14 °F to 122 °F)
	Storage	-30 °C to 70 °C (-22 °F to 158 °F) ^a

Relative humidity	0 % to 95 % non-condensing
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GENERAL SPECIFICATIONS

Display	7-in (178-mm) outdoor-enhanced touchscreen, 800 x 480 TFT
Size (H x W x D)	166 mm x 200 mm x 68 mm (6 ⁹ / ₁₆ in x 7 ⁷ / ₈ in x 2 ³ / ₄ in)
Weight (with battery)	1.5 kg (3.3 lb)
Interfaces	Two USB 2.0 ports RJ45 LAN 10/100 Mbit/s
Storage	2 GB internal memory (150 000 test results, typical)
Battery ^b	Rechargeable lithium-polymer battery 12 hours of operation
Power supply	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz, 9-16 V DCIN 20 W minimum
Warranty	Three (3) years
Recommended recalibration period	Three (3) years

Notes

a. -20 °C to 60 °C (-4 °F to 140 °F) with the battery pack.

b. Typical.

ORDERING INFORMATION

MAX-940-XX-XX-XX-XX-XX-XX-XX-XX

Model

MAX-940 = Fiber Certifier OLTS

Optical configuration

ICERT-SM1 = Singlemode OLTS 1310/1550 nm

ICERT-Q1 = Multimode OLTS 850/1300 nm

ICERT-Q1-QUAD = Quad OLTS 850/1300 nm;
1310/1550 nm**Optical connector^a**

EA-EUI-89 = APC/FC

EA-EUI-91 = APC/SC

EA-EUI-98 = APC/LC

EI-EUI-89 = UPC/FC

EI-EUI-91 = UPC/SC

EI-EUI-98 = UPC/LC

Optical options

00 = Without optical option

VFL = Visual fault locator

Inspection probe model

00 = Without inspection probe

FP410B = Digital video inspection probe^c

Triple magnification

FP420B = Analysis digital video inspection probe^c

Automated pass/fail analysis

Triple magnification

Autocentering

FP425B = Wireless digital video inspection probe^{c, d}

Automated pass/fail analysis

Triple magnification

Autocentering

FP430B = Automated analysis digital video inspection probe^c

Automated focus

Automated pass/fail analysis

Triple magnification

Autocentering

FP435B = Wireless analysis digital video inspection probe^{c, d}

Automated focus

Automated pass/fail analysis

Triple magnification

Autocentering

FastReporter

00 = Without FastReporter 2

FR2 = With FastReporter 2 PC software

Connectivity

00 = Without RF components

RF = With RF capability (WiFi and Bluetooth)

Extra FIPT-400B tips^b**Bulkhead tips**

FIPT-400-FC-APC = FCAPC tip for bulkhead adapter

FIPT-400-FC-SC = FC and SC tip for bulkhead adapter^e

FIPT-400-LC = LC tip for bulkhead adapters

FIPT-400-LC-APC = LC/APC tip for bulkhead adapter

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

Patchcord tips

FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules

FIPT-400-U12MA = Universal patchcord tip for 1.25 mm ferrules APC

FIPT-400-U16M = 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^eFIPT-400-U25MA = Universal patchcord tip for 2.5 mm ferrules APC^f**Multifiber tips**

FIPT-400-MTP2 = MTP/MPO UPC tip for bulkhead adapter

FIPT-400-MTPA2 = 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-U12MA: 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-U12M: Universal patchcord tip for 1.25 mm ferrules

FIPT-400-MTP-MTR-K = MTP/MPO multirow APC and UPC tip for bulkhead adapter

Base tips

APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC

UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Example: MAX-940-ICERT-Q1-QUAD-EI-EUI-91-VFL-FP420B-UPC

Notes

a. EUI adapters are the same on SM, MM source ports and power meter ports. Multimode connectors are always UPC.

b. Available with probe option.

c. Includes ConnectorMax2 software.

d. Includes RF option.

e. Included in UPC base tips option.

f. Included in APC base tips option.

ORDERING INFORMATION

MAX-945-XX-XX-XX-XX-XX-XX-XX

Model ^a

MAX-945 = Fiber Certifier OLTS

Optical configuration ^a

ICERT-Q1-QUAD = Quad

Port 1: 850/1300 nm IL and length measurement

Port 2: 1310/1550 nm IL, length and ORL measurement

Connector ^a

EA-EUI-89 = APC/FC narrow key

EA-EUI-91 = APC/SC

EA-EUI-98 = APC/LC

EI-EUI-89 = UPC/FC ^h

EI-EUI-91 = UPC/SC ^h

EI-EUI-98 = UPC/LC ^h

VFL and power meter ^a

00 = Without VFL and power meter

VFL = With VFL

PM2X = With power meter; GeX detector

VPM2X = With VFL and power meter; GeX detector

WiFi and Bluetooth ^a

00 = Without RF components

RF = With RF capability (WiFi and Bluetooth)

Inspection probe model ^b

00 = Without inspection probe

FP410B = Digital video inspection probe

Triple magnification

FP420B = Analysis digital video inspection probe

Automated pass/fail analysis

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Extra FIPT-400B tips ^d

Bulkhead tips

FIPT-400-FC-APC = FC/APC tip for bulkhead adapter

FIPT-400-FC-SC = FC and SC tip for bulkhead adapter ^e

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FIPT-400-SC-APC = SC/APC tip for bulkhead adapter ^f

FIPT-400-SC-UPC = SC/UPC tip for bulkhead adapter

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Multifiber tips ^g

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FIPT-400-MTPA2 = MTP/MPO APC tip for bulkhead adapter

FIPT-400-MTP-MTR = MTP/MPO multirow UPC tip for bulkhead adapter

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FIPT-400-MTP-MTR-K = MTP/MPO multirow APC and UPC tip for bulkhead adapter ^g

Base tips

APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC

UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Example: MAX-945-ICERT-Q1-QUAD-EA-EUI-91-VFL-RF-FP435B-APC

Notes

a. Connector adapters are the same on singlemode source ports, multimode source ports and power meter ports. Multimode connectors are always UPC.

b. Includes ConnectorMax2 software.

c. RF option mandatory and included with this model.

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 patch cord inspection.

h. An hybrid REF Grade Test Cord will be supplied when EI (UPC) interfaces is required.

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.

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