**MAX-FIP**

INTELLIGENT CONNECTOR AND FIBER CERTIFIER

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**TEST SET KEY FEATURES**

- Bright, 7-in touchscreen display
- Rugged, compact tablet-inspired form factor
- Power meter and visual fault locator (VFL) (plug-and-play options)
- Full-day, rechargeable Li-ion battery
- Wi-Fi and Bluetooth connectivity (plug-and-play options)

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**INSPECTION PROBE KEY FEATURES**

- Fully automated, one-step process:
  - Automatic fiber-connection detection
  - Automatic image-centering
  - Automatic focus adjustment and optimization
  - Automatic capture
  - Automatic pass/fail analysis
  - Automatic reporting
- Onboard connector endface analysis (IEC, IPC or custom standards) including MPO/MTP analysis
- Pass/fail LED indicator for immediate diagnosis of connector health
- Optimal digital image quality with three levels of magnification
- USB wired or wireless models available

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**COMPLEMENTARY PRODUCTS**

- Data Post-Processing Software
- FastReporter2
- Cleaning Kits

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Rugged, tablet-inspired design featuring the latest innovations in automated connector and fiber certification. Ensures that workflow and best practices are followed by simplifying and speeding up the critical inspection phase.

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Feature(s) of this product is/are protected by one or more of: US design patents D710222 and equivalent patent(s) pending and/or granted in other countries.
MAX-FIP TEST UNIT
FEATURES AND CHARACTERISTICS

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

The MAX-FIP features the largest screen in the industry, providing the highest magnification level for precise viewing of even the smallest defects on fiber endfaces. The unit’s tablet-inspired design featuring an icon-based graphical user interface (GUI) makes it easy to navigate and toggle between different applications (inspection, connector analysis, power measurement and VFL troubleshooting). Additionally, its bright 7-inch touchscreen ensures fast and easy operation of the instrument even in full daylight, in turn eliminating eye fatigue associated with prolonged connector inspection (typically experienced during full-day fiber-patch-panel certification routines).

PACKAGED FOR EFFICIENCY

1. Stylus
2. Power meter
3. Visual fault locator
4. 10/100 Mbit/s Ethernet port
5. Two USB 2.0 ports
6. AC adapter
7. Home/switch application and screen capture (hold)
8. Power on/off/standby
9. Battery LED status
10. Built-in Wi-Fi/Bluetooth
EXTENSIVE STORAGE CAPABILITY

The MAX-FIP standard 2 GB internal memory offers extensive storage of up to 4000 fiber certification results, and is expandable using USB memory sticks, optional Wi-Fi and Bluetooth capability for cloud-based storage, and wireless FIP-425/FIP-435B connectivity.

BEST-IN-CLASS AUTONOMY

Take full advantage of the MAX-FIP’s amazing eight-hour battery operation that never lets you down, and enables you to complete full-day jobs without having to recharge the unit. Also, save money by not having to pay expensive battery replacement costs associated with other handheld inspection kits on the market operating on standard alkaline batteries.

PLUG-AND-PLAY OPTICAL OPTIONS

**Integrated Optical Power Meter**

› Extensive range of connectors
› Auto-Lambda and Auto-Switching
› Offers measurement storage and reporting
› Seven standard calibrated wavelengths

**Visual Fault Locator**

The integrated 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.

The optical power meter (up to 27 dBm) and VFL can be controlled directly from the main GUI, or using ConnectorMax 2 software.
FIP-400B INSPECTION PROBE SERIES: FEATURES AND CHARACTERISTICS

Neglecting to clean, inspect and certify connectors can lead to serious, time-consuming problems accounting for up to 80% of network failures. Years of experience in the field have provided EXFO with the expertise to re-engineer a major, patent-pending fiber inspection probe designed to both simplify and speed up this critical step of network construction and maintenance.

UNIQUE AUTOFOCUS FEATURE ENABLING FULLY AUTOMATED FIBER INSPECTION

Turning Fiber Inspection into a One-Step Process

Enabled by its unique automatic focus-adjustment system, the FIP-430B and FIP-435B automates each operation in the test sequence, transforming the critical inspection step into a quick and simple one-step process accessible to technicians of any skill level.

Automated focus adjustment: ensures that each connector image is captured at maximum quality for enhanced identification of defects.

Focus protection: prevents image capture in the event of improper focus adjustment. This ensures that no performance-affecting defects or residues are ignored in the analysis, thus preventing the reporting of false-positive results.

RE-ENGINEERED DESIGN

The unit’s rubber casing and controls are designed for intense field operation, with controls strategically positioned to simplify the inspection process. In addition, the very bright LED status can be easily viewed from different angles. The FIP-400B is designed for seamless manipulation by both right- and left-handed users.

TRIPLE MAGNIFICATION MODE

By optimizing the image size, users get a detailed view of all defects. This series features the only probes in the industry offering three magnification levels.
FAST-TRACKED CONNECTOR INSPECTION

When outsourcing your fiber testing, you'll want to be certain that the technician will apply best practices and properly certify every single connector. Neglecting to do so, at this critical step, will lead to serious, time-consuming problems. The new FIP-400B Series is the result of years of fiber-inspection experience in the field: its patent-pending, re-engineered design was developed based on feedback from actual end-users in order to optimize and speed up the inspection process.

THE FIP-400B’S HASSLE-FREE, AUTOMATIC IMAGE-CENTERING FEATURE SAVES PRECIOUS TIME

› Save over two hours on a typical FTTH cabinet inspection (432 fibers)
› 14-second inspection time per port (down from 32 seconds)*
› $25,000 in potential savings in one year based on one cabinet inspection per day at a cost of $50 per hour

* Data sourced from EXFO’s case study, with calculation based on typical analysis time. Data based on time savings resulting exclusively from the automatic image-centering function.

AUTOMATIC FIBER IMAGE-CENTERING

This function cuts inspection time in half by automatically detecting the fiber endface and instantly centering the image. All the user has to do is focus and capture. This is especially handy when inspecting patch panels and hard-to-reach connectors, and also ensures that users will not miss defects in the critical zones of the connectors.

Hit the bull’s-eye, every time.

SIMULTANEOUS MULTIFIBER VIEW WITH PICTURE-IN-PICTURE (PIP)

The FIP-400B’s unique 912 µm x 912 µm field of view (FOV) greatly facilitates viewing of the multi-fiber push on (MPO) connector. Plus, ConnectorMax 2 includes a low-magnification PIP window that displays multiple fibers (four or eight at a time), ensuring that you never miss a fiber while scanning.
FIVE MODELS TO FIT YOUR BUDGET

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

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

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

The **FIP-430B**: complete and fully automated feature set, 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).

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>USB WIRED</th>
<th>WIRELESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three magnification levels</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Image capture</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Five-megapixel CMOS capturing device</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Automatic fiber image-centering function</td>
<td>x</td>
<td>✓</td>
</tr>
<tr>
<td>Automatic focus adjustment</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Onboard pass/fail analysis</td>
<td>x</td>
<td>✓</td>
</tr>
<tr>
<td>Pass/fail LED indicator</td>
<td>x</td>
<td>✓</td>
</tr>
<tr>
<td>Wi-Fi connectivity</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

The table above summarizes the features of each model, with ✓ indicating the feature is included, x indicating it is not included, and √ indicating the feature is included in the wireless models.

**EXFO**
AUTOMATIC PASS/FAIL CONNECTOR CERTIFICATION WITH CONNECTORMAX 2 SOFTWARE

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

Delivering fast pass/fail assessment of connector endfaces, EXFO’s ConnectorMax 2 Software is designed to save both time and money in the field. The ConnectorMax 2 automated inspection application eliminates guesswork by providing clear-cut connector endface analysis.

Using ConnectorMax 2 in conjunction with FIP-400B Series of fiber inspection probes (models with onboard analysis feature), field technicians are able to analyze defects and scratches, and measure their impact on connector performance. Results are then compared against preprogrammed IEC/IPC standards or user-defined criteria, leading to accurate pass/fail verdicts established right on-site.

Therefore, running a pass/fail analysis helps avoid two-time, money-draining situations (i.e., undetected connector defects that require technicians to return to the site at a later date) and unnecessary replacement of connectors with slight defects so small that they do not generate a fail verdict.

Thanks to ConnectorMax 2’s newly redesigned interface, the unit features a unique all-in-one integrated GUI with a touchscreen providing quick access to all of the instrument’s main functionalities.

ConnectorMax 2 software is included with all FIP-400B Series Fiber Inspection Probes as the default image viewer and results saving tool. However, please note that the automated pass/fail analysis functionality can only enabled when used in conjunction with FIP-420B, FIP-425, FIP-430 and FIP-435B probe models, which offer onboard analysis features.

ConnectorMax 2 also offers the smoothest MPO/MTP connector analysis process thanks to its unique PIP multifiber view, which is paired with the automated centering and focusing functions of the FIP-430/435. This leaves your hands free to control the X and Y scanning tool, enabling you to sequentially run the pass/fail analysis on each fiber of the connector in order to obtain a global status as per the standards.

Fewer manipulations in less time.
HANDS-FREE UTILITY BAG (OPTIONAL)

Inspecting fiber connectors on an occasional basis is one thing, but having to inspect numerous connectors day in and day out in the field (e.g., when installing an FTTH cabinet or inspecting crowded data-center patch panels) can be quite challenging. To help optimize your test process and get maximal performance from your MAX-FIP solution, EXFO offers a hands-free utility bag that ensures secure, hands-free operation of the unit when you are working with fibers, connectors and inspection tools. In addition to protecting the unit from various environmental conditions, the utility bag accommodates all essential tools and accessories required for intensive certification work (e.g., connectors, inspection tips, cleaning devices and fiber jumpers) in one handy and lightweight soft bag.

MAX-FIP HOOK SUPPORT (OPTIONAL)

The MAX-FIP hook support is an optional accessory that fits any type of fiber cabinet door perfectly, enabling hands-free operation for easier and faster fiber manipulation during the connector certification test process. Inspecting and analyzing fiber connector endfaces has never been easier thanks to this automated and intelligent digital fiber inspection probe.
### MAX-FIP SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size (H x W x D)</strong></td>
<td>200 mm x 155 mm x 50 mm (7 7/8 in x 6 1/8 in x 2 in)</td>
</tr>
<tr>
<td><strong>Weight (base unit with battery)</strong></td>
<td>1 kg (2.2 lb)</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td><strong>Operating</strong> –10 °C to 50 °C (14 °F to 122 °F)</td>
</tr>
<tr>
<td></td>
<td><strong>Storage</strong> –40 °C to 70 °C (–40 °F to 158 °F)</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>0 % to 95 % non-condensing</td>
</tr>
</tbody>
</table>

### USB FIBER INSPECTION PROBE SPECIFICATIONS<sup>b</sup>

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size (H x W x D)</strong></td>
<td>47 mm x 42 mm x 162 mm (1 7/8 in x 1 5/8 in x 6 3/8 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.3 kg (0.66 lb)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>0.55 µm</td>
</tr>
<tr>
<td><strong>Camera sensor</strong></td>
<td>Five-megapixel CMOS</td>
</tr>
<tr>
<td><strong>Lighting technique</strong></td>
<td>Coaxial</td>
</tr>
<tr>
<td><strong>Capture button</strong></td>
<td>Available on all models</td>
</tr>
<tr>
<td><strong>Magnification button</strong></td>
<td>Available on all models</td>
</tr>
<tr>
<td><strong>Digital magnification</strong></td>
<td>Three levels</td>
</tr>
<tr>
<td><strong>Connector</strong></td>
<td>Minimum USB 2.0</td>
</tr>
</tbody>
</table>

### WI-FI FIBER INSPECTION PROBE SPECIFICATIONS<sup>b</sup>

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size (H x W x D)</strong></td>
<td>55 mm x 39 mm x 207 mm (2 3/16 in x 1 1/2 in x 8 1/8 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.3 kg (0.7 lb)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>0.55 µm</td>
</tr>
<tr>
<td><strong>Camera sensor</strong></td>
<td>Five-megapixel CMOS</td>
</tr>
<tr>
<td><strong>Lighting technique</strong></td>
<td>Coaxial</td>
</tr>
<tr>
<td><strong>Capture button</strong></td>
<td>Available on all models</td>
</tr>
<tr>
<td><strong>Magnification button</strong></td>
<td>Available on all models</td>
</tr>
<tr>
<td><strong>Digital magnification</strong></td>
<td>Three levels</td>
</tr>
<tr>
<td><strong>Connector</strong></td>
<td>Micro USB</td>
</tr>
<tr>
<td><strong>Connectivity</strong></td>
<td>Wi-Fi 802.11g</td>
</tr>
<tr>
<td><strong>Frequency band</strong></td>
<td>2.4 GHz</td>
</tr>
<tr>
<td><strong>Smart device OS compatibility</strong></td>
<td>Android™ 4.2 and above, iOS 8.1 and above</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>1 x removable battery</td>
</tr>
<tr>
<td><strong>Autonomy</strong></td>
<td>FIP-425B: ≥10 h</td>
</tr>
<tr>
<td></td>
<td>FIP-435B: ≥8 h</td>
</tr>
<tr>
<td><strong>Recharge time</strong></td>
<td>≤ 4 h</td>
</tr>
<tr>
<td><strong>Distance range</strong></td>
<td>2.5 m (8.2 ft)</td>
</tr>
</tbody>
</table>

### Notes

- a. ~20 °C to 60 °C (~4 °F to 140 °F) with the battery pack.
- b. Typical.
- c. Measurement excluding tip and including strain relief.
- d. Software is qualified with Google Nexus, Apple iPhone and Apple iPad devices. Other models are not guaranteed to be 100% compatible.
- e. One (1) test per minute. The probe remains in live mode for 20 seconds during each test.
- f. Using USB AC Adapter. When probe is in use the recharge time may take longer.
- g. Wi-Fi interferences and physical obstacles may affect distance range.
**BUILT-IN POWER METER SPECIFICATIONS (GeX) (optional)**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibrated wavelengths (nm)</td>
<td>850, 1300, 1310, 1490, 1550, 1625, 1650</td>
</tr>
<tr>
<td>Power range (dBm)</td>
<td>27 to −50</td>
</tr>
<tr>
<td>Uncertainty (%)</td>
<td>±5 % ± 10 nW</td>
</tr>
<tr>
<td>Display resolution (dB)</td>
<td>0.01 = maximum to −40 dBm</td>
</tr>
<tr>
<td></td>
<td>0.1 = −40 dBm to −50 dBm</td>
</tr>
<tr>
<td>Automatic offset nulling range</td>
<td>Max power to −34 dBm</td>
</tr>
<tr>
<td>Tone detection (Hz)</td>
<td>270/330/1000/2000</td>
</tr>
</tbody>
</table>

**VISUAL FAULT LOCATOR (VFL) (OPTIONAL)**

- Laser: 650 nm ± 10 nm
- CW/Modulate: 1 Hz
- Typical $P_{in}$ in 62.5/125 µm: > −1.5 dBm (0.7 mW)
- Laser safety: Class 2

**FIP-400B ACCESSORIES (INCLUDED)**

- Video inspection probe
- Bulkhead and patchcord tips
- ConnectorMax 2 software
- FIPT-BOX: Compartmentalized plastic case for tips
- GP-10-094: Soft pouch
- GP-2175: Protective cap and cord assembly
- FIP-410B/420B/430B (USB wired probe)
- FIP-425B/435B (wireless probe)
- Video inspection probe
- Bulkhead and patchcord tips
- ConnectorMax 2 software
- FIPT-BOX: Compartmentalized plastic case for tips
- GP-10-094: Soft pouch
- GP-2175: Protective cap and cord assembly
- GP-2225: USB to Micro USB cable
- GP-2226: Rechargeable battery (quantity: one)
- GP-2227: USB AC Adapter

**MAX-FIP OPTIONAL ACCESSORIES**

- GP-302: USB mouse
- GP-1008: VFL adapter (2.5 mm to 1.25 mm)
- GP-2001: USB keyboard
- GP-2016: 10-foot RJ45 LAN cable
- GP-2144: USB 16G microdrive
- GP-2176: Hook for MAX-FIP
- GP-2177: Hands-free bag for MAX-FIP
- GP-2178: Right-angle USB adapter cable for MAX-FIP (USB male to USB female)
- GP-2205: DC vehicle battery-charging adapter (12 V)
- GP-10-072: Semi-rigid carrying case
- GP-10-061: Soft carrying case

**CONNECTORMAX 2 SOFTWARE: PC OPERATING SYSTEM COMPATIBILITY AND REQUIREMENTS**

The following minimum requirements must be met in order to install and run ConnectorMax 2 on a computer:

**SYSTEM REQUIREMENTS**

<table>
<thead>
<tr>
<th>SYSTEM REQUIREMENTS</th>
<th>MINIMUM REQUIREMENTS WINDOWS XP (32 BIT AND 64 BIT)</th>
<th>MINIMUM REQUIREMENTS WINDOWS 7 (32 BIT AND 64 BIT)</th>
<th>MINIMUM REQUIREMENTS WINDOWS 8 (32 BIT AND 64 BIT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Pentium (800 MHz or higher recommended)</td>
<td>Pentium (1.6 GHz or higher recommended)</td>
<td>Pentium (1.6 GHz or higher recommended)</td>
</tr>
<tr>
<td>RAM</td>
<td>256 MB (512 MB recommended)</td>
<td>512 MB (2 GB recommended)</td>
<td>1 GB for 32; 2 GB for 64</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(2 GB or more recommended)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>40 MB</td>
</tr>
<tr>
<td>Other</td>
<td>Latest version of .NET Framework 3.5 DirectX 9.0; USB 2.0, minimum</td>
<td>Latest version of .NET Framework 3.5 DirectX 9.0; USB 2.0, minimum</td>
<td>Desktop applications supported</td>
</tr>
</tbody>
</table>

**LASER SAFETY**

- LASER RADIATION
- DO NOT STARE INTO BEAM
- CLASS 2 LASER PRODUCT
- $\lambda$: 650 ± 10 nm
- $P_{out}$ maximum < 2 mW

**Notes**

- a. At 23 ºC ± 1 ºC, 1550 nm and FC connector. Battery-operated after 20-minute warm-up.
- b. Typical.
- c. At calibration conditions.
- d. For ±0.05 dB, from 10 ºC to 30 ºC.
## ORDERING INFORMATION

### Stand-Alone Units

<table>
<thead>
<tr>
<th>Power meter</th>
<th>MAX-FIP-XX-XX-XX</th>
<th>Wi-Fi and Bluetooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 = Without power meter</td>
<td></td>
<td>00 = Without RF components</td>
</tr>
<tr>
<td>P2X = Power meter; GeX detector</td>
<td></td>
<td>RF = With RF capability (Wi-Fi and Bluetooth)</td>
</tr>
<tr>
<td>VP2X = VFL and power meter; GeX detector</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: MAX-FIP-VP2X-FOA-54-RF

### 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-54 = SC, SC/PC, SC/SPC, SC/UPC, SC/APC
- FOA-78 = Radial EC
- FOA-96B = E-2000/APC
- FOA-98 = LC
- FOA-99 = MU

### Note

a. Available if power meter selected.
**ORDERING INFORMATION**

### Power meter
- **00** = Without power meter
- **P2X** = Power meter; GeX detector
- **VP2X** = VFL and power meter; GeX detector

### 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-54** = SC; SC/PC, SC/SPC, SC/UPC, SC/APC
- **FOA-78** = Radiall EC
- **FOA-96B** = E-2000/APC
- **FOA-98** = LC
- **FOA-99** = MU

### Wi-Fi and Bluetooth
- **00** = Without RF components
- **RF** = With RF capability (Wi-Fi and Bluetooth)

### Inspection Probe Model
- **FIP-410B** = Digital Video Inspection Probe
  - Triple Magnification
- **FIP-420B** = Analysis Digital Video Inspection Probe
  - Automated pass/fail analysis
  - Triple magnification
- **FIP-425B** = Wireless Digital Video Inspection Probe
  - Automated pass/fail analysis
  - Triple magnification
  - Autocentering
- **FIP-430B** = Automated Analysis Digital Video Inspection Probe
  - Automated focus
  - Automated pass/fail analysis
  - Triple Magnification
  - Autocentering
- **FIP-435B** = Wireless Analysis Digital Video Inspection Probe
  - Automated focus
  - Automated pass/fail analysis
  - Triple magnification
  - Autocentering

### Base tips
- **APC** = Includes FIPT-400-U25MA and FIPT-400-SC-APC
- **UPC** = Includes FIPT-400-U25SM and FIPT-400-FC-SC


### Extra FIP-400B tips

#### Bulkhead tips
- **FIPT-400-FC-APC** = FC APC tip for bulkhead adapter
- **FIPT-400-FC-SC** = FC and SC tip for bulkhead adapter
- **FIPT-400-FC** = LC tip for bulkhead adapters
- **FIPT-400-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
- **FIPT-400-SC-UPC** = SC UPC tip for bulkhead adapter
- **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
- **FIPT-400-U25MA** = Universal patchcord tip for 2.5 mm ferrules APC

#### Multifiber tips
- **FIPT-400-MTP2** = MTP/MPO UPC tip for bulkhead adapter
- **FIPT-400-MTP2A** = MTP/MPO APC tip for bulkhead adapter
- **FIPT-400-MTP-MTR** = MTP/MPO Multi-Row UPC tip for bulkhead adapter
- **FIPT-400-MTP-MTRA** = MTP/MPO Multi-Row 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-U20M2: Universal patchcord tip for 2.0 mm ferrules (D4, Lemo)
  - FIPT-400-U25M: Universal patchcord tip for 2.5 mm ferrules
- **FIPT-400-LC-K-APC** = LC tip kit including:
  - FIPT-400-LC-APC: LC/APC tip for bulkhead adapter
  - FIPT-400-U25MA: Universal patchcord tip for 2.5 mm ferrules APC
- **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-MTP-MTR-K** = MTP/MPO Multi-Row APC and UPC tip for bulkhead adapter

### Kits

**TK-MAX-FIP-XX-XX-XX-XX-XX-XX**

- **Max FIP**

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**Notes**

a. Available if power meter selected.
b. Includes ConnectorMax 2 software.
c. 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 adapters 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.
d. Included when UPC base tips are selected.
e. Included when APC base tips are selected.
f. Includes a bulkhead adapter for patchcord inspection.
g. RF option mandatory and included with this model.

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