Fiber Inspection and Cleaning Kits

**Key Features**
- Complete solution for inspecting and cleaning fiber connectors in a single kit
- Easily inspect and clean both sides of fiber connections
- Crisp, clear fiber end face images for detailed visual inspection of contamination
- Portable, handheld probe and display
- Highly effective cleaning tools
- Precision inspection tips for different connectors and applications
- Compact carrying case for portability and organization

Dirt, dust, and other particles on fiber end faces are the primary causes of troubleshooting in optical networks. In addition, most field test failures can be attributed to dirty connectors. JDSU Fiber Inspection and Cleaning Kits enable quick and easy visual inspection to determine whether fiber connectors are truly clean before they are mated. Proactively inspecting and cleaning fiber connectors, enables technicians to reduce network troubleshooting and downtime, optimizes signal performance, and prevents network damage.

JDSU provides the industry’s most complete solution for inspecting and cleaning fiber connectors with a combination of all the necessary equipment that technicians need to ensure the integrity of optical connections. These convenient kits address the vast array of inspection and cleaning needs in today’s field applications.

For inspection, each kit comes equipped with a probe microscope, a portable handheld HD3 video display, and eight precision inspection tips for various bulkhead and patch cord configurations. For cleaning, each kit includes two bulkhead/patch cord cleaning tools, connector cleaning solvent, and lint-free wipes. All contents are provided in a compact and secure carrying case, providing a safe, portable, and convenient solution for fiber technicians.

**Applications**
- Easily inspects both sides (bulkhead and patch cord) of a fiber connection
- Provides a quick and easy cleaning solution for end face contaminants
- Effectively remove stubborn contaminants with cleaning solvent

WEBSITE: www.jdsu.com/test
Kit Components

**Fiber Inspection**

The JDSU video fiber inspection probe and handheld display system is used to inspect both “male” (patch cord) and “female” (bulkhead) sides of a fiber interconnect. Both the probe and display fit comfortably in a users’ hand for portability and easy operation. Various interchangeable tips enable optimized inspection for different connector types and applications.

The FBP series probe provides dual (200x and 400x) magnification and a selection of over 350 different inspection tips. FBE series probes provide a more economical option with single magnification (200x or 400x) and a selection of common tip configurations. Both configurations are hardwired with a compact HD3 series display, which includes a 1.8-inch TFT LCD to provide a portable inspection solution for fiber technicians.

### Kit Components

#### Fiber Inspection Tips

<table>
<thead>
<tr>
<th>Type</th>
<th>FBE</th>
<th>FBP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBET-SC</td>
<td></td>
<td></td>
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<tr>
<td>FBPT-SC</td>
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<tr>
<td>FBET</td>
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<tr>
<td>FBPT</td>
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</table>

#### Microscope Compatibility

- **FBET Series (~30)**
- **FBPT Series (350+)**

#### Patchcord Inspection Tips

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>FBE</th>
<th>FBP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal 1.25 mm</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Universal 2.5 mm</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Universal 2.5 mm APC</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Bulkhead Inspection Tips

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>FBE</th>
<th>FBP</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC, LC, FC, ST, SC/APC</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Portable Cleaning Tool: Bulkhead/Patch Cord - 2.5 mm

- Yes

#### Portable Cleaning Tool: Bulkhead/Patch Cord - 1.25 mm

- Yes

#### Cleaning Solvent

- Yes

#### Cleaning Wipes

- Yes

#### Carrying Case

- Yes

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**HD3 Display**

- **AC Power/Charger Input**
  - Alternative AC power and battery charger input

- **Probe Input**
  - 4-pin FBP Probe Input for stand-alone display

- **Low Battery Indicator**
  - When lit, remaining battery life = 30 minutes

- **1.8” TFT LCD Screen**
  - GripSwitch™
    - Press both sides to turn power ON and release to turn power OFF

- **Power Mode Selector**
  - · ON mode for continuous ON
  - · GripSwitch Mode designed to save battery life
  - · Off/Charge Mode to turn power OFF or to CHARGE battery

- **Hex Screw**
  - Remove to access battery compartment
Fiber Cleaning Tools

IBC™ brand cleaners are dry cloth cleaners specifically designed to clean either side of a fiber connection. For cleaning connectors behind a bulkhead, simply insert the device into the bulkhead until a click sound is heard. For cleaning patch cords, the dust cap acts as an adapter to receive the connector ferrule. These tools are simple to use and highly effective at removing oil and dust contaminants.

FCC2™ optical-grade solvent is designed specifically for cleaning optical connectors. Electrically conductive, this solvent is ideal and effective at removing stubborn forms of debris by dissipating static charges that bind particulate to connector end faces. Ideal for wet-to-dry cleaning procedures, this fast-drying solvent is nonflammable, nontoxic, noncorrosive, and safe to use.

Specifications

FBE Probe
- Inspection Tip Compatibility: FBET Series tips
- Dimensions: 12.5 x 3.3 x 3.2 cm
- Detection w/ HD3 display: <1 µm
- Low Mag (HFOV): 550 µm
- High Mag (HFOV): 350 µm
- Weight: 180 g
- Cord Length: 240 cm coil
- Camera Type: 1/3” CMOS Sensor
- Light Source: Blue LED, 100,000+ hour life
- Lighting Technique: Coaxial
- Power Source: From HD3 display

FBC Probe
- Inspection Tip Compatibility: FBPT Series tips
- Dimensions: 14.0 x 4.6 x 4.4 cm
- Detection w/ HD3 display: <1 µm
- Low Mag (HFOV): 550 µm
- High Mag (HFOV): 350 µm
- Weight: 180 g
- Cord Length: 240 cm coil
- Camera Type: 1/3” CMOS Sensor
- Light Source: Blue LED, 100,000+ hour life
- Lighting Technique: Coaxial
- Power Source: From HD3 display

HD3 Display
- Dimensions: 10 x 7 x 4.3 cm
- Weight: 150 g w/ Hanging accy
- Screen Size: 4.6 cm (1.8 in)
- Power Source: Built-in rechargeable NiMH battery of AC adapter (100-200 VAC/12 VDC)
- Power Mode: ON (continuous on), ON/GRIP (GripSwitch power save mode), OFF/CHARGE (power off or charge)

Cleaning Solvent
- Chemical Family: HFC solvent
- Appearance: Clear, colorless liquid
- Odor: Slight, ethereal
- Boiling Point: 45°C / 113°F
- Vapor Pressure (mmHg @ 20°C): 310
- Percent Volatile: 100%
- Specific Gravity: 1.34
- pH: Neutral
- Flashpoint (TCC): None
- Flammability: Nonflammable
- NFPA Health: 1; Fire: 0; Reactivity: 1
- Ozone Impact: Zero
- RoHS and WEEE Compliant: Yes
- SNAP Approved: Yes
- Safe for Travel: Yes

Portable Cleaning Tools
- Compatibility: 1.25 mm Version (LC, MU), 2.5 mm Version (SC, FC, ST)
- Cleanings per unit: 525+
- Impact resistance: Up to 6 feet
- Operating Temperature Range: -10 to +60°C
- Crush resistance: up to 45 lbs
- Effective at removing: Debris, dust, skin oil, 70% IPA residue, hand lotion, distilled water residue, salt residue

Lint-Free Cleaning Wipes
- Material: Soft, hydroentangled polyester fabric
- Dimensions (in tub): 2 x 4.25 in
- Quantity (per tub): 90
# Ordering Information

## Inspection and Cleaning Kits

<table>
<thead>
<tr>
<th>Kit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBE-SM1-C</td>
<td>Fiber Inspection and Cleaning Kit, 200X FBE probe, hardwired to HD3 display. Includes SC, LC, FC, ST, SC-APC, U25M, U25MA, and U12M tips, bulkhead/patch cord cleaning tools (2.5 mm and 1.25 mm), soft case, and power supply/charger</td>
</tr>
<tr>
<td>FBE-SM2-C</td>
<td>Fiber Inspection and Cleaning Kit, 400X FBE probe, hardwired to HD3 display. Includes SC, LC, FC, ST, SC-APC, U25M, U25MA, and U12M tips, bulkhead/patch cord cleaning tools (2.5 mm and 1.25 mm), soft case, and power supply/charger</td>
</tr>
<tr>
<td>FBP-SM03-C</td>
<td>Fiber Inspection and Cleaning Kit, 200X/400X FBP probe, hardwired to HD3 display. Includes SC, LC, FC, ST, SC-APC, U25M, U25MA, and U12M tips, bulkhead/patch cord cleaning tools (2.5 mm and 1.25 mm), carrying case, and power supply/charger</td>
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</tbody>
</table>

## Accessories

### Supplemental Cleaning Tools and Consumables

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCB-IBC12-10</td>
<td>Fiber cleaning tool, IBC, bulkhead and patch cord, 1.25 mm ferrules, 10-Pack</td>
</tr>
<tr>
<td>FCB-IBC25-10</td>
<td>Fiber cleaning tool, IBC, bulkhead and patch cord, 2.5 mm ferrules, 10-Pack</td>
</tr>
<tr>
<td>FCR-CLN-01</td>
<td>Fiber cleaning tool, CleanCheck, patch cord</td>
</tr>
<tr>
<td>FCR-FCC-01</td>
<td>Fiber Field Cleaning Consumables Kit</td>
</tr>
<tr>
<td>FCR-CLN-01</td>
<td>Fiber Field Cleaning Consumables Kit</td>
</tr>
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### Supplemental Inspection Tips and Adapters

<table>
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<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBPT-E2000</td>
<td>Tip, E2000 bulkhead, for FBP video fiber microscope</td>
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<tr>
<td>FBPT-FC</td>
<td>Tip, FC bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-LC</td>
<td>Tip, LC bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-LC-L</td>
<td>Tip, LC long reach for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-MTP</td>
<td>Tip, MTP/MPO multimode bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-MTPA</td>
<td>Tip, MTP/MPO single-mode bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-SC</td>
<td>Tip, SC bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-SC-APC</td>
<td>Tip, SC-APC bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-SC-A6</td>
<td>Tip, SC bulkhead, for FBP video fiber microscope, angled 60°</td>
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<tr>
<td>FBPT-ST</td>
<td>Tip, ST bulkhead, for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-ST-A6</td>
<td>Tip, ST bulkhead, for FBP video fiber microscope, angled 60°</td>
</tr>
<tr>
<td>FBPT-U12M</td>
<td>Tip, universal 1.25 mm patch cord for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-U25M</td>
<td>Tip, universal 2.5 mm patch cord for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-U25MA</td>
<td>Tip, universal 2.5 mm APC patch cord for FBP video fiber microscope</td>
</tr>
<tr>
<td>FBPT-UFMA</td>
<td>Universal flare adapter, connects FMA adapters to FBP probe</td>
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* For additional information on tips and accessories not listed above, please contact a JDSU sales representative.