

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

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



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.

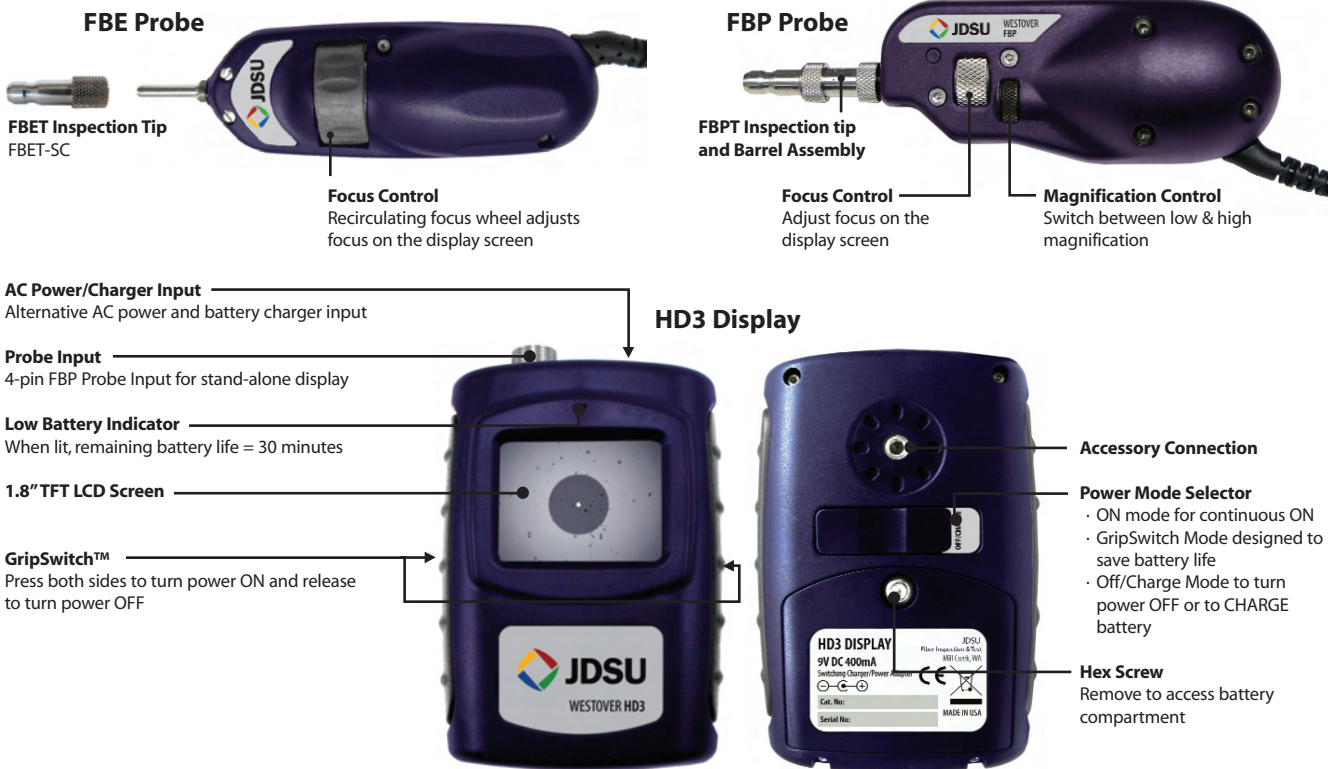
For inspection, each kit comes equipped with a probe microscope, a portable handheld HD3 video display, and eight precision inspection tips for various bulkhead and patch cord configurations. For cleaning, each kit includes two bulkhead/patch cord cleaning tools, connector cleaning solvent, and lint-free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

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.



	FBE-SM1-C/FBE-SM2-C	FBP-SM03-C
<i>Microscope</i>	FBE	FBP
<i>Display</i>	HD3	HD3
<i>Compatibility</i>	FBET Series (~30)	FBPT Series (350+)
<i>Patchcord Inspection Tips</i>	Universal 1.25 mm	Universal 1.25 mm
	Universal 2.5 mm	Universal 2.5 mm
	Universal 2.5 mm APC	Universal 2.5 mm APC
<i>Bulkhead Inspection Tips</i>	SC, LC, FC, ST, SC/APC	SC, LC, FC, ST, SC/APC
<i>Portable Cleaning Tool: Bulkhead/Patch Cord - 2.5 mm</i>	Yes	Yes
<i>Portable Cleaning Tool: Bulkhead/Patch Cord - 1.25 mm</i>	Yes	Yes
<i>Cleaning Solvent</i>	Yes	Yes
<i>Cleaning Wipes</i>	Yes	Yes
<i>Carrying Case</i>	Yes	Yes

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Optical-grade cleaning solvent and lint-free wipes remove stubborn contaminants

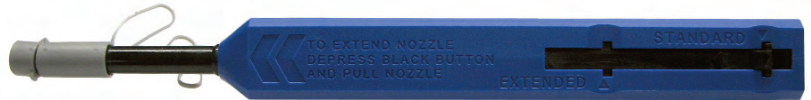
Fiber Cleaning Tools

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.



IBC Cleaner (1.25 mm)



IBC Connector cleaner (Universal 2.5 mm)

Specifications

FBE Probe

Inspection Tip Compatibility	FBET Series tips
Dimensions	12.5 x 3.3 x 3.2 cm (5 x 1.32 x 1.28 in)
Detection w/ HD3 display	<1 µm
Low Mag (HFOV)	550 µm
High Mag (HFOV)	350 µm
Weight	180 g (6.35 oz)
Cord Length	240 cm (7.87 ft) coil
Camera Type	1/3" CMOS Sensor
Light Source	Blue LED, 100,000+ hour life
Lighting Technique	Coaxial
Power Source	From HD3 display

FBP Probe

Inspection Tip Compatibility	FBPT Series tips
Dimensions	14.0 x 4.6 x 4.4 cm (5.5 x 1.8 x 1.7 in)
Detection w/ HD3 display	<1 µm
Low Mag (HFOV)	550 µm
High Mag (HFOV)	350 µm
Weight	180 g (6.35 oz)
Cord Length	240 cm (7.87 ft) 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 (3.9 x 2.8 x 1.7 in)
Weight	150 g (5 oz) w/ Hanging accy
Screen Size	4.6 cm (1.8 in)
Power Source	Built-in rechargeable NiMH (nickel metal hydride), 800 mAH 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)

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 (14 to 140°F)
Crush resistance	up to 20.4 kg (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)	5 x 10.80 cm (2 x 4.25 in)
Quantity (per tub)	90

Cleaning Solvent

Technical Details	
Chemical Family	HFC solvent
Appearance	Clear, colorless liquid
Odor	Slight, ethereal
Boiling Point	45°C / 113°F

Solvency & Cleaning Data

Vapor Pressure (mmHg @ 20°C)	310
Percent Volatile	100%
Specific Gravity	1.34
pH	Neutral

Health, Safety & Environmental Data

Toxicity	ppm, 8-Hr TWA, PEL See MSDS
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

Ordering Information

Inspection and Cleaning Kits

FBE-SM1-C	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
FBE-SM2-C	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
FBP-SM03-C	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

Accessories

Supplemental Cleaning Tools and Consumables

FCB-IBC12-10	Fiber cleaning tool, IBC, bulkhead and patch cord, 1.25 mm ferrules, 10-Pack
FCB-IBC25-10	Fiber cleaning tool, IBC, bulkhead and patch cord, 2.5 mm ferrules, 10-Pack
FCR-001	Fiber cleaning tool, CleanCheck, patch cord
FCR-CLN-01	Fiber Field Cleaning Consumables Kit
FCR-FCC-01	Fiber Cleaning Consumables (Solvent & Wipes) Bulk Refill Pack

Supplemental Inspection Tips and Adapters

FBPT-E2000	Tip, E2000 bulkhead, for FBP video fiber microscope
FBPT-FC	Tip, FC bulkhead, for FBP video fiber microscope
FBPT-LC	Tip, LC bulkhead, for FBP video fiber microscope
FBPT-LC-L	Tip, LC long reach for FBP video fiber microscope
FBPT-MTP	Tip, MTP/MPO multimode bulkhead, for FBP video fiber microscope
FBPT-MTPA	Tip, MTP/MPO single-mode bulkhead, for FBP video fiber microscope
FBPT-SC	Tip, SC bulkhead, for FBP video fiber microscope
FBPT-SC-APC	Tip, SC-APC bulkhead, for FBP video fiber microscope
FBPT-SC-A6	Tip, SC bulkhead, for FBP video fiber microscope, angled 60°
FBPT-ST	Tip, ST bulkhead, for FBP video fiber microscope
FBPT-ST-A6	Tip, ST bulkhead, for FBP video fiber microscope, angled 60°
FBPT-U12M	Tip, universal 1.25 mm patch cord for FBP video fiber microscope
FBPT-U25M	Tip, universal 2.5 mm patch cord for FBP video fiber microscope
FBPT-U25MA	Tip, universal 2.5 mm APC patch cord for FBP video fiber microscope
FBPT-UFMA	Universal flare adapter, connects FMA adapters to FBP probe

* For additional information on tips and accessories not listed above, please contact a JDSU sales representative.

Test & Measurement Regional Sales

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