Introducing the new cleaners for MPO, SC, LC optical connectors. Expanding its lineup of optical cleaners, Senko is able to respond to an even wider range of its customers needs.

**Smart Probe** allows technicians to inspect the fiber endfaces, providing a high-definition image with a resolution up to 720p.

Images are captured digitally and streamed on the monitor of any Android Tablet or Smartphone.

**XP Fit Plus** Field Termination Connectors

The XP Fit Plus is a pre-polished, pre-assembled connector that uses index matching gel. An internal mechanical grip gently but effectively holds the fiber in place and can be installed in under 2 minutes. Without polishing or adhesives the XP Fit Plus makes on site installations quick and easy, diminishing the need for epoxy curing and hand polishing at the work site.
Over 50 percent of all network failures are caused by contamination.

It is imperative that connectors be inspected and cleaned prior to mating.

- **CLEAN**
  - When to clean?
  - Whenever you make a fiber optic connection in any network

- **INSPECT**
  - What to inspect?
  - Old jumpers, New jumpers, OTDR Launch, Test Leads, Fiber Trunk, MPO Connectors

- **CONNECT**
  - Easy installation in under 2 minutes
  - Field Installable XP Fit Plus™
  - No Epoxy, No polish field termination in 2 minutes

- **TEST**
  - Quick and easy solutions to trouble shoot and test your fiber optic network
What do the standards say?
The test procedures specified by 568-C require tools and procedures for ensuring connector quality.

- End faces on cords and trunks shall be in accordance to IEC 6100-3-35.
- Use a microscope that is compatible with IEC 61300-3-35
- The microscope must have adapters that are compatible with connectors.

What is IEC 61300-3-35?
• A set of requirements for Fiber Optic connector quality.
• Designed to guarantee insertion loss and return loss performance
• Used as reference between supplier & customer
• Used as condition for accurate testing of components and links.

General Acceptance Criteria
Separate criteria for different connector types, and performance.

- SM-UPC IL <= 0.30dB/RL>55dB
- SM-APC IL <=0.35dB/RL>65dB
- MM-pC IL <0.35dB
- Multi Fiber SM IL <0.50dB/RL> 60dB
- Multi Fiber MM IL <0.50dB

What happens if the optical connector end face becomes contaminated?
Examples of common contaminants adhering to end face:
- Hand Lotion
- Fiber Residue
- Dirt and Dust

Optical connector must have no contamination prior to mating
What can happen when the optical end face is dirty?
The beam of light may not be able to travel through the core. Optical connectors become contaminated from a variety of reasons. Usually 2-15 micron sized contaminants will have an impact on the signal transmission and could cause damage to the optical end face. The majority of network down time is caused by optical connector contamination.

Example of fiber end faces and respective zones
- Contamination of the ferrule endface
- Poor polishing of the ferrule
- Mistakes in attaching labels to the cable
- Damage to the optical connector
- Damage on the ferrule endface
- Defective splicing
- Excessive bending for the cable

In a recent study, 98% of installers (blue) and 80% of network owners (yellow) reported that issues with connector contamination was the greatest cause of network failure.

Source of data: NTT

Example of optical connector contamination
- Poor polishing of the ferrule
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- Damage to the optical connector
- Damage on the ferrule endface
- Defective splicing
- Excessive bending for the cable

Optical connector contamination
- NTT Fiber Residue
- Light ray
- Reflected light

Troubles caused by connector end face contamination
- Light is transmitted poorly or not at all
- Light is reflected back to connection point

*returning to the transmission point, causing equipment breakdown or bit errors
What can happen when contaminants adhere to the core?

When contaminants adhere to the core, they will cause increase in signal interruption and increase amount of insertion loss and degradation of return loss. Also, these kinds of contaminants can cause chips, pits, and scratches in the connector end face under the pressure of the physical connection. Large contaminants can result in gaps in the physical connection, resulting in increased loss. These kinds of contaminants can actually spread and migrate by the physical connection.

Core damage caused by high power laser in contact with end face contaminants

Why not IPA?

- Infinitely hydroscopic - self contaminating
- Slow drying (hangs in slit of alignment sleeve, and guide pin holes in MPO)
- Bottled IPA is easily contaminated during handling
- Leaves Residue

When residue or contaminants adhere to the optical connector, it will produce heat. This not only could melt the optical fiber, but could also destroy devices and equipment.

Where High Power Lasers are used

When residue or contaminants adhere to the optical connector, it will produce heat. This not only could melt the optical fiber, but could also destroy devices and equipment.

Contaminants at the side of the ferrule prevent light from properly passing through due to poor alignment.

Mating a clean connector to a dirty connector

When the unclean optical connector is mated, the contaminant is forced into the ferrule and may become permanently damaged. In this situation, the damage cannot be removed with an optical cleaner.

Core damage caused by high power laser in contact with end face contaminants

Residue remains after cleaning with IPA

The Smart Probe allows technicians to inspect the fiber endfaces, providing a high-definition image with a resolution up to 720px.

Wi-Fi STREAMING

Images are captured digitally and streamed on the monitor of any Android Tablet.
### Smart Cleaner

#### FEATURES
- Designed for all types connectors
- Compact size for easy handheld operations
- Dry clean without the use of harmful substances
- Cleaning micro fibers are densely stranded and debris free
- Replaceable cartridge
- Constructed with anti-static material
- 750+ cleanings per unit
- Easy pushing motion engages connector and initiates cleaner
- Extendable tip reaches recessed connectors
- Cleaning system rotates 180° for a full sweep

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Compatible Connectors</th>
<th>Attachment Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Cleaner 1.25</td>
<td>LC, MU</td>
<td>Brown</td>
</tr>
<tr>
<td>Smart Cleaner 2.50</td>
<td>SC, FC, ST, E-2000</td>
<td>White</td>
</tr>
</tbody>
</table>

#### ORDER CODE DESCRIPTION
- SCK-SS-125: Replacement Cartridge for 1.25 (LC, MU)
- SCK-SS-250: Replacement Cartridge for 2.50 (SC, FC, ST, E-2000)

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**Senko’s Smart Cleaner** is composed of a replaceable cartridge containing the cleaning string and the retaining handle which holds it. The handle unit and the cartridge are sold as one unit, while replacement cartridges may also be purchased separately. Each pack contains 3 replacement cartridges (750+ Cleanings for each cartridge).

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The Smart Cleaner is a dry cloth cleaner specifically designed to clean connections of patch cords, in adapter, faceplates and bulkheads.

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**Smart Cleaner**

**REPLACEMENT CARTRIDGE TYPE**

<table>
<thead>
<tr>
<th>ORDER CODE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>SCK-SS-125</td>
<td>Smart Cleaner 1.25 for LC, MU</td>
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<tr>
<td>SCK-SS-250</td>
<td>Smart Cleaner 2.50 for SC, FC, ST, E-2000</td>
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</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product Name</th>
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**Replacement Cartridges**

**SMART CLEANER 1.25 AND 2.50**

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<th>ORDER CODE</th>
<th>DESCRIPTION</th>
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<td>SCK-SS-125-R</td>
<td>Replacement Cartridge for 1.25 LC, MU</td>
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<tr>
<td>SCK-SS-250-R</td>
<td>Replacement Cartridge for 2.50 SC, FC, ST, E-2000</td>
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**SPECIFICATIONS**

<table>
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<tr>
<th>Product Name</th>
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<th>Smart Cleaner 2.50</th>
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<tbody>
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</tr>
<tr>
<td>Attachment Color</td>
<td>Brown</td>
<td>White</td>
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</tbody>
</table>
Smart Cleaner MINI

Designed to work well with the LC/MU and SC/FC/ST/E-2000 connectors, this instrument cleans the ferrule end faces removing dust, oil, and other debris without nicking or scratching the end face. The SENKO Fiber Optic Cleaner for simplex connections is a dry cloth cleaner specially designed to clean single fiber connectors. Designed as an adapter, the dust cap of the cleaner acts as an adapter for cleaning unmated connectors.

For EACH CLEANER

ORDER CODE DESCRIPTION
SCK-SS-M-125 Smart Cleaner Mini 1.25 for LC, MU
SCK-SS-M-250 Smart Cleaner Mini 2.50 for SC, FC, ST

SPECIFICATIONS
Product Name Smart Cleaner Mini 1.25 Smart Cleaner Mini 2.50
Compatible Connectors MU, LC, PC and APC SC, FC, ST, E-2000 PC and APC
Attachment Color Brown White

Designed for all types of simplex connectors, compact size for easy hand-held operations. Dry clean without the use of harmful substances. Cleaning micro fibers are densely stranded and debris free. Constructed with anti-static material. 400+ cleanings per unit. Easy pushing motion engages connector and initiates cleaner. Extendable tip reaches recessed connectors. Cleaning system rotates 180 degrees for a full sweep.

Smart Cleaner for MPO

Designed to work with MPO connectors, this instrument cleans the ferrule end faces removing dust, oil, and other debris without nicking or scratching the end face. The SENKO Smart Cleaner for MPO is a dry cloth cleaner to clean MPO connector with “push and click” mechanism. The main body also is made from anti-static material. The tape advance mechanism has been simplified, reducing the number of assembly parts to a minimum resulting in cost reductions for both manufacturing and assembly.

For EACH CLEANER

ORDER CODE DESCRIPTION
SCK-SS-MPO Smart Cleaner MPO

SPECIFICATIONS
Product Name Smart Cleaner MPO
Compatible Connectors MPO, MTP
Compatible End Face Suitable for flat and 8 degree angled endface with or without guide pins

Designed for all types of multifiber connectors. Compacts size for easy hand-held operations. Dry clean without the use of harmful substances. Cleaning micro fibers are densely stranded and debris free. Constructed with anti-static material. 600+ cleanings per unit. Easy pushing motion engages connector and initiates cleaner.

Cassette Cleaner

The Cassette Cleaner wipes away contaminants from optical connector end face with ease. Just as with our previous products, the cleaning tape does not produce dust, and provides special cleaning strength while resisting foreign particles to mix into the tape. The main body also is made from anti-static material. The tape advance mechanism has been simplified, reducing the number of assembly parts to a minimum resulting in cost reductions for both manufacturing and assembly.

For EACH CLEANER

ORDER CODE DESCRIPTION
SCK-CC-100 Cassette Cleaner

SPECIFICATIONS
Product Name Cassette Cleaner
Compatible Connectors SC, FC, ST, E-2000, LC, MU PC and APC
Cleanings 400+ (tape cannot be replaced)
Dimensions W 115mm × H 55mm × D 25mm

Designed for all types of connectors. Compact size for easy hand-held operations. Dry clean without the use of harmful substances. Cleaning micro fibers are densely stranded and debris free. Constructed with anti-static material. 400+ cleanings per unit.

Before Cleaning

Oil Contamination

After Cleaning
The Smart Probe allows technicians to inspect the fibre endfaces, providing a high-definition image. Images are captured digitally and streamed on the monitor of any compatible device.

**FEATURES**

- WiFi streaming: easily connect with Smartphones and Tablets
- Replaceable and rechargeable battery
- Available adapter tips (LC, FC, PC, ST, DIN, MPO)
- High-definition image
- True completely wireless probe
- Integrated Wi-Fi module
- Highly compact easy to use design
- Left or right handed thumb/finger operation
- Free Smart Phone/Tablet app with digital zoom and still capture functions
- Tips for all common connector types for both patchcord and patch panel inspection

**SPECIFICATIONS**

- **Field of View**: 457µm x 259µm
- **Image Resolution**: 960 x 544
- **Magnification**: 328 (based on 7” tablet screen)
- **Frame Rate**: 15 fps
- **Video Format**: MJPEG
- **Still Format**: JPEG
- **Sensor Type**: CMOS Monochrome
- **Zoom**: Magnification Digital x1.25; x1.5; x2
- **Illumination Method**: Coaxial LED
- **Blue LED (470nm)**
- **Connectivity**: Wi-Fi 802.11 b/g/n
- **Frequency Range**: 2.412Ghz (channel 1)
- **Power**: 2 x Removable BL-5C Batteries
- **Operating Time**: 3 hours Continuous Operation
- **Operating Temperature**: -10°C ~ +50°C
- **Storage Temperature**: -30°C ~ +100°C
- **Weight**: 147g including 2 x BL-5C batteries
- **Operating Temperature**: 138g including 2 x BL-4C batteries
- **Dimensions**: Without Tips 137.7mm (L) x 40.0mm (H) x 37.4mm (W)
- **Relative Humidity**: 10% - 90%, Non-Condensing
- **Storage Humidity**: 5% - 90%, Non-Condensing
- **Software**: Live image (inspection) and still capture viewing. Zoom (live image) and stills capture functions
- **OS Compatibility**: Android 4.0.1 (API level 14) and above
Digital Fiber View

The probe is used with software package for visualization, capturing and detection/analysis of connector defects.

Digital Fiberview is a digital inspection probe for visualization of connector end faces and detection/analysis of connector defects. The device features high resolution, fiber auto detection/centering and user defined Pass/Fail criteria.

The probes can be used for either bulkhead or patch cord inspection, such as SC, FC, ST, LC, MU, E2000 - PC & APC as well as MT, MTP/MPO, SMA and other military connectors.

Visual inspection single port fiber

Test name: 25
Test ID: 25
Preset: IEC PC SM RL 45 dB
Device: SMX-Scopio
Hardware ID: 4022
SMX-Scopio inspection: 2.1.55.1977
Operator: Operator 1

Inspection summary

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<th>Zone</th>
<th>Inner</th>
<th>Outer</th>
<th>Type</th>
<th>Criterion</th>
<th>Size range</th>
<th>Result</th>
<th>Count</th>
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<tbody>
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<td>25</td>
<td>Scratch</td>
<td>Width</td>
<td>&gt;0</td>
<td>PASS</td>
<td>0</td>
<td>0</td>
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<tr>
<td>B</td>
<td>25</td>
<td>120</td>
<td>Scratch</td>
<td>Width</td>
<td>&gt;3</td>
<td>PASS</td>
<td>0</td>
<td>5</td>
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<tr>
<td>C</td>
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<td>130</td>
<td>Defect</td>
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<td>PASS</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>D</td>
<td>130</td>
<td>250</td>
<td>Defect</td>
<td>Encompassing circle diameter</td>
<td>&gt;10</td>
<td>FAIL</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Field of View: \( d = 0.4 \text{ mm} \)
Defect Size Detection: 0.05 \( \mu \text{m} \)
Optical Resolution: 2 \( \mu \text{m} \)
Magnification: 50× (variable)
Light Source: Fiber LED, wave length 470nm
Camera Type: Digital
Sensor Type: 1280 x 1024, 28 fps default, 1280 x 1024, 14 fps full resolution
Power Source: USB 2.0 Port of PC
Cable Connector: USB 2.0
Dimensions (H x W x L): 56.5 x 25 x 201 mm (2.22 x 0.98 x 7.91 inches)
Weight: 1.90 kg (4.17 lbs)
Housing Material: Aluminum
Barrel Material: Stainless Steel

FEATURES

Highly Portable
- Optical Resolution to 0.5 \( \mu \text{m} \)
- Variable Magnification
- Standard 2.5mm PC Tip
- Other Tips Available
- Analytical Software
- Lightweight Rugged Carry Case

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### Smart Source

Smart Source is ideal for field or laboratory testing of optical communication systems at 850 nm / 1300 nm for datacom testing, 1310 nm / 1550 nm / CWDM 1270 nm ~ 1625 nm (~ 20 nm spans) for all WDM testing, as well as 1490 nm for FTTH testing by using interchangeable SFP transceiver modules. Smart Source features zero warm up time, superb productivity and has an easy to use, pocket-sized, rugged design. The smart source can be changed to accommodate either SM or MM by simply switching out the SFPs. The lightweight hand held design eliminates the need to carry big and bulky test equipment.

#### ORDER CODE DESCRIPTION
- AFT-G-MF-LS Smart Source Mainframe
- AFT-G-LS-S-1550 SM SMART SOURCE SFP Module 1550
- AFT-G-LS-S-1310 SM SMART SOURCE SFP Module 1310
- AFT-G-LS-M-1300 MM SMART SOURCE SFP Module 1300
- AFT-G-LS-M-850 MM SMART SOURCE SFP Module 850 VCSEL

#### FEATURES
- Lightweight and portable
- Excellent wavelength stability
- Excellent output power stability
- Also available in other wavelengths*

#### SPECIFICATIONS
- Laser Class: Class 1
- Wavelength (nm): Select the required wavelength Smart Source SFP Plug-in module and order separately
- Output Power: 1mW @ 25°C into singlemode fiber
- Mode: CW/2 kHz Pulse
- Battery Type: AAA 1.5Vx2
- Output Power Accuracy: ±0.2 dB
- Stability (8 Hours): ±0.05 dB
- Operating Temperature: 0 ~ 50°C
- Storage Temperature: 0 ~ 70°C

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### Smart Meter

The Smart Meter measures power in both 850 nm / 1300 nm (Multimode) and 1310 nm ~ 1625nm (Singlemode) respectively. The SENKO smart meter, in conjunction with the SENKO smart source is an effective, quick way to test and certify a fiber optic link. The meter comes in multimode and single mode with respective wavelengths at 850/1300 MM and 1310/1550 SM.

#### ORDER CODE DESCRIPTION
- AFT-G-FM-3DG-S SM Smart Meter 1310/1550nm 3 digits
- AFT-G-FM-2DG-M MM Smart Meter 850/1300nm 2 digits
- AFT-G-CAM 2.5 mm to 1.25 mm Adapter

#### FEATURES
- No pre-warm up time
- Interchangeable SFP module design for wavelength flexibility
- Excellent output wavelength stability
- Excellent re-connection repeatability
- Low Voltage Battery warning
- Compatible to LC Connectors

#### SPECIFICATIONS
- Wavelength (Multimode): 850nm / 1300nm
- Optical Power Range (Multimode): -30 dBm ~ -15 dBm
- Wavelength (Singlemode): 1310nm ~ 1625nm
- Optical Power Range (Singlemode): -40dBm ~ -5 dBm
- Battery: AAA 1.5Vx2
- Resolution: 1 dBm / 0.1dBm
- Fiber Connector: Universal Type
- Display: 2 digit (MM) / 3 digit (SM)
- Operating Temperature: 0 ~ 50°C
- Storage Temperature: 0 ~ 70°C

---

### Smart Checker

Refraction of the 650nm red light caused by any breaks and or cracks in the fiber will glow red, thus giving an exact visual location of the fault in the fiber.

#### ORDER CODE DESCRIPTION
- AFT-G-FC 2.5 (SC, FC, ST) to LC (1.25) Conversion Adapter
- AFT-G-CAL 2.5mm to 1.25mm Adapter

#### FEATURES
- Continuous / Pulse Mode options
- Auto Power Control circuit design to provide a stable LD output power
- Low Voltage Battery warning signal in LED Compatible to SC / ST / FC / LC Connectors
- Visibility to 3 Km

#### SPECIFICATIONS
- Laser Class: Class 2M
- Wavelength: 650 nm +/-10 nm @ 25°C
- Spectral Width: < 10 nm
- Output Power: >0.5 mW@ 25°C into singlemode fiber
- Mode: CW/Pulse
- Battery Type: AAA 1.5Vx2
- Output Power Reliable: ±0.2 dB
- Transmitting Range: Visibility to 3 Km
- Operating Temperature: 0 ~ 50°C
- Storage Temperature: 0 ~ 70°C

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### Interchangeable Modules for Smart Source

#### ORDER CODE DESCRIPTION
- AFT-G-LS-S-1550 SM SMART SOURCE SFP Module 1550
- AFT-G-LS-S-1310 SM SMART SOURCE SFP Module 1310
- AFT-G-LS-M-1300 MM SMART SOURCE SFP Module 1300
- AFT-G-LS-M-850 MM SMART SOURCE SFP Module 850 VCSEL

#### FEATURES
- Also available in other wavelengths*

#### SPECIFICATIONS
- Laser Class: Class 1
- Wavelength (nm): Select the required wavelength Smart Source SFP Plug-in module and order separately
- Output Power: 1mW @ 25°C into singlemode fiber
- Mode: CW/2 kHz Pulse
- Battery Type: AAA 1.5Vx2
- Output Power Accuracy: ±0.2 dB
- Stability (8 Hours): ±0.05 dB
- Operating Temperature: 0 ~ 50°C
- Storage Temperature: 0 ~ 70°C

---

### Smart Checker VISIBLE FAULT LOCATOR

#### ORDER CODE DESCRIPTION
- AFT-G-CC 2.5 (SC, FC, ST) to LC (1.25) Conversion Adapter

#### FEATURES
- Also available in other wavelengths*

#### SPECIFICATIONS
- Laser Class: Class 1
- Wavelength: 650nm
- Spectral Width: < 10nm
- Output Power: >0.5 mW@ 25°C into singlemode fiber
- Mode: CW/Pulse
- Battery Type: AAA 1.5Vx2
- Output Power Reliable: ±0.2 dB
- Transmitting Range: Visibility to 3 Km
- Operating Temperature: 0 ~ 50°C
- Storage Temperature: 0 ~ 70°C

---
MPO 12 Smart Checker
VISIBLE FAULT LOCATOR

The MPO Visible light source is a useful tool designed for checking the Fiber ports in both MM and SM assemblies, or checking for defects in a MPO arrayed fiber cable. It emits a visible 650nm wavelength visible red laser light through fiber optic cables; if there are breaks or defects in the fiber then the light will refract, creating a bright glow around the faulty area. The Laser Diode output signal can be switched from all fibers at the same time or sequentially through each individual fiber in either Continuous Wave Mode or Flashing Mode to obtain different visual effects.

ORDER CODE | DESCRIPTION
-------------|-----------------|
AFT-G-FC-MPO  | MPO 12 Smart Checker

SPECIFICATIONS

- **Cable Compatibility**: 4-, 8- and 12-channel MPO, Single Mode and Multi-Mode
- **Measurement**: Fiber continuity by Visible Fault Locator
- **Functions**: Individual fiber channels selected, rotary switch and two digit LED display, selects mode for all channels, continuous wave or pulsed
- **Light Source and Detector**: Red laser on each output channel
- **Power**: Internal lithium battery, re-chargeable via USB port, Capacity: 1400mAh, min. battery life: 5 hours
- **Laser Class**: Class 2B
- **Wavelength**: 650nm ± 10nm @ 25 degC
- **Spectral Width**: < 10 nm
- **Optical Output Power**: > 0.4 mW @ 25 degC into 9 μm fibre
- **Light Emitting Range**: > 3 km
- **Operating Temperature**: 0–50°C
- **Storage Temperature**: 0–70°C
- **Weight**: 0.65 kg
- **Dimensions**: 168mm (W), 128mm (D), 35mm (H)
**CLEANING**

**Smart Cleaner**

**1.25 or 2.50**

Designed to specially work well with the LC/MU and SC/FC/ST/E-2000 connectors, this instrument cleans the ferrule end faces removing dust, oil, and other debris without scratching the end face.

**Smart Cleaner Mini**

**1.25 or 2.50**

Designed to specially work well with the LC/MU and SC/FC/ST/E-2000 connectors, this instrument cleans the ferrule end faces removing dust, oil, and other debris without scratching the end face.

**Cassette Cleaner**

The Cassette Cleaner wipes away contaminants from optical connector end face with ease. The cleaning tape does not produce dust, and provides special cleaning strength.

**Fiber Optic Cleaning Pen**

This precision cleaner quickly cleans the end faces of fiber optic connectors, while eliminating electrostatic charge which can attract airborne contaminants to the end face.

**Lint Free Wipes**

These inexpensive tissues can be used dry or with several cleaning solvents to clean off ferrule endfaces or prepare fibers for termination and/or splicing.

**Cleaning Solvent**

This fast-acting cleaner can be used with dry fiber wipes or tissues to remove dirt and soaks from optical fibers prior to termination and fiber optic splicing or to clean the end of connector ferrules.

**4x4 NON-Woven Wipes**

Non-Woven cloth wipes can be used alone or with alcohol or solvents. Provides superior cleaning of fiber optic connector ferrules without risk of scratching or lint residue.

**Smart Cleaner MPO**

Designed to work with MPO connectors, this instrument cleans the ferrule end faces removing dust, oil, and other debris without nicking or scratching the end face.

**Make your own kit**

We put everything in a Soft Case and we deliver it to you.

Choose the right product you want and need for your work, and create your own custom kit.

### Make Your Own Kit

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>Make Your Own Kit</th>
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<tbody>
<tr>
<td>SCK-CC-100</td>
<td>Cassette Cleaner Disposable</td>
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<tr>
<td>SCK-SS-125</td>
<td>Smart Cleaner 1.25</td>
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<td>SCK-SS-250</td>
<td>Smart Cleaner 2.50</td>
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<td>SCK-VM125-01</td>
<td>Smart Cleaner Mini 1.25</td>
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<td>SCK-SS-MPO</td>
<td>Smart Cleaner MPO</td>
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<td>AFT-A-WK</td>
<td>Lint Free Wipes</td>
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<td>AFT-A-KM</td>
<td>Fiber Optic Cleaning Pen</td>
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<tr>
<td>CSK-01</td>
<td>4x4 NON-WOVEN WIPES</td>
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<tr>
<td>CSK-02</td>
<td>2.5 MM Stick 250 pcs.</td>
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<td>CSK-03</td>
<td>Broadcast Stick 200 pcs.</td>
</tr>
<tr>
<td>AFT-A-FS</td>
<td>Cleaning solvent (Not Available in Europe)</td>
</tr>
<tr>
<td>AFT-G-MF-LS</td>
<td>Smart Probe Wi-Fi</td>
</tr>
<tr>
<td>AFT-G-FM-3DG-S</td>
<td>Digital FiberView</td>
</tr>
<tr>
<td>AFT-G-FC</td>
<td>Smart Checker</td>
</tr>
<tr>
<td>AFT-A-CS-XP</td>
<td>Soft Case</td>
</tr>
</tbody>
</table>

**INSPECTION**

**Smart Probe WiFi for fiber inspection**

**Digital FiberView with Inspection Software**

**TESTING**

**Smart Testers for network troubleshooting**
Senko’s Optical Connector Lineup creates reliability in telecommunications service

The cause of numerous problems in optical communication equipment is contamination of the end face of optical connectors. Senko has developed optical fiber cleaners with fiber specifically for optical connectors to help create a reliable telecommunications service. Senko’s optical connector cleaners eliminate even the smallest contaminants that are visible only through magnification.

Why is cleaning optical connectors so important?

Contamination of the optical connector end face can easily occur. The transmission quality will be affected once the contaminants adhere to the 10µm diameter optical fiber core, and there is increased danger that the fiber end face will be damaged by any high powered light. Cleaning the optical connector end face is extremely important before making a connection.
Typically, the first step is to clean the connector endface with a cleaning stick and then dry any remaining residue with either a wipe or a swab. If, after using the dry cleaning method, the connector still fails to meet the acceptance criteria, consider replacing the connector.

**How to Clean Using the Wet-Dry Method**

1. Wet a corner of the wipe with solvent.
2. In a smooth linear motion, trace the endface of the jumper twice over the wet area.
3. In a smooth linear motion, trace the endface of the jumper three times over the dry area.
Pre-packaged kits

FiberView Kit

Content for Field Installation Kit

- Smart Probe Wi-Fi: SCK-VM2000-01
- Smart Cleaner 1.25: SCK-SS-125
- Smart Cleaner 2.50: SCK-SS-250
- 14x4 Non Woven Wipes: AFT-A-NW
- 1 Solvent: AFT-A-FS
- Soft Case: AFT-A-CS-XP

Smart Probe WiFi for fiber inspection

Lint Free Wipes

Cassette Cleaner

Pre-packaged kits

FTTX Kit

Content for FTTX Kit

- Smart Source Mainframe: AFT-G-MF-LS
- SM Smart Meter: AFT-G-FM-3DG-S
- MM Smart Meter: AFT-G-FM-2DG-M
- 2.5 mm to 1.25 mm Adapter: AFT-G-CAM
- SM Smart Checker: AFT-G-FC
- Smart Cleaner 1.25: SCK-SS-125
- Smart Cleaner 2.50: SCK-SS-250
- 14x4 Non Woven Wipes: AFT-A-NW
- 1 Solvent: AFT-A-FS
- Soft Case: AFT-A-CS-XP

Smart Testers for network troubleshooting

Smart Meter

Smart Checker

Smart Source

- Tablet not included

*Tablet not included

Smart Cleaner 1.25 or 2.50

Lint Free Wipes

Cassette Cleaner
The XP-Fit Installation Kit contains everything needed for installation of the SC and LC XP FIT PLUS connectors. No epoxy, polishing film, or other consumables are required, and there is no need for electrical power, allowing installers to get in and out of installation sites quickly.

**Features**
- Fast installation to minimize onsite labour costs
- Compatible with conventional LC & SC connectors and adaptors
- Easy operation
- Quick assembly in under 2 minutes
- No adhesive or polishing required
- Compact tool without electric power

**XP Fit Installation KIT**

<table>
<thead>
<tr>
<th>ORDER CODE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>XPF-P-F</td>
<td>XP Fit Field Installation Kit with Flat Cleaver - PREMIUM</td>
</tr>
<tr>
<td>XPF-S-F</td>
<td>XP Fit Field Installation Kit with Flat Cleaver - STANDARD</td>
</tr>
<tr>
<td>XPF-P-A</td>
<td>XP Fit Field Installation Kit with Angled Cleaver</td>
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**DESCRIPTION SENKO PN**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SENKO PN</th>
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<tbody>
<tr>
<td>XP Fit Field Installation Kit with Flat Cleaver - PREMIUM</td>
<td>XPF-P-F</td>
</tr>
<tr>
<td>Jacket and 2.5mm Fiber Stripper + 125µm Buffer Remover</td>
<td>AFT-T-25S</td>
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<tr>
<td>Thermal Buffer Removal Tool</td>
<td>AFT-T-TBR</td>
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<tr>
<td>Replacement Blade Set</td>
<td>AFT-T-TBR-R</td>
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<tr>
<td>Precision Cleave Tool (Flat) - Premium</td>
<td>AFT-G-CL-FMT</td>
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<td>Lint Free Dry Wipes</td>
<td>AFT-A-KW</td>
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<tr>
<td>Fiber Optic Cleaning Pen</td>
<td>AFT-A-EWP</td>
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<tr>
<td>Kevlar Scissors</td>
<td>AFT-T-KS</td>
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<tr>
<td>Fiber Disposal Unit</td>
<td>AFT-A-FU</td>
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<tr>
<td>Flex Permanent Marker Pen</td>
<td>AFT-A-MPK</td>
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<tr>
<td>Fiber Checker</td>
<td>AFT-G-FC</td>
</tr>
<tr>
<td>2.5mm to 1.25mm Adapter</td>
<td>AFT-G-CAC</td>
</tr>
<tr>
<td>Launch Cables</td>
<td>XPF-TEST-KIT</td>
</tr>
</tbody>
</table>

**Features**

- Easy installation in under 2 minutes
**XP Fit Plus™**

**Field Installable Connector**

The SENKO XP Fit Plus is a pre-polished, pre-assembled connector compatible with standard SC and LC connectors. No epoxy is required as an internal mechanical grip effectively holds the fiber in place and can be installed in under two minutes. Without polishing or adhesives, the XP Fit Plus makes on-site installations quick and easy, diminishing the need for epoxy curing and hand polishing at the work site. The XP Fit Plus comes with an assembly jig and fiber holder for 250µm and 900µm tight buffered fiber, ensuring accurate alignment and fiber cleave when terminating.

**FEATURES**
- Mechanical Splice (index matching gel)
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated
- TIA/EIA 568-C.3 Compliant

**XP Fit KIT**

No epoxy, polishing film, or other consumables are required for installation.

**XP Fit Installation Kit**

Contains everything needed for installation of the SC and LC XP FIT PLUS connectors.

No epoxy, polishing film, or other consumables are required, and there is no need for electrical power, allowing installers to get in and out of installation sites quickly.

**SPECIFICATIONS**

**SINGLE MODE**

For XP Fit Plus SC

- Insertion Loss: 0.2dB (PC)
- Return Loss: 55dB (PC)
- Durability: <0.1dB change, 500 matings
- Operating Temperature: -40ºC to +75ºC

**MULTIMODE**

- Insertion Loss: 0.3dB (APC)
- Return Loss: 60dB (APC)
- Operating Temperature: -40ºC to +75ºC

Note: Specifications shown above were obtained using SENKO recommended products and procedures.

**PART NUMBER DESCRIPTION HOUSING BOOT COLOR**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>HOUSING</th>
<th>BOOT</th>
<th>COLOR</th>
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</thead>
<tbody>
<tr>
<td>318-191-627</td>
<td>XPFit Plus SC Connector SM: PC 900µm/250µm (120 pack)</td>
<td>Blue</td>
<td>White</td>
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</tr>
<tr>
<td>318-091-427</td>
<td>XPFit Plus SC Connector SC: APC 900µm/250µm (120 pack)</td>
<td>Green</td>
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<tr>
<td>318-291-727</td>
<td>XPFit Plus SC Connector MM: 50/125 900µm/250µm (120 pack)</td>
<td>Black</td>
<td>White</td>
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<tr>
<td>318-491-527</td>
<td>XPFit Plus SC Connector MM: 50/125 10G OM3 900µm/250µm (120 pack)</td>
<td>Aqua</td>
<td>White</td>
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<tr>
<td>318-091-457</td>
<td>XPFit Plus SC Connector SC: APC Drop Cable</td>
<td>Green</td>
<td>Black</td>
<td></td>
</tr>
</tbody>
</table>

12 pack available Add -12 to existing part number

Note: Specifications shown above were obtained using SENKO recommended products and procedures.

**XP Fit Plus LC**

**FIELD INSTALLABLE CONNECTOR**

- Insertion Loss: 0.2dB (PC)
- Return Loss: 55dB (PC)
- Durability: <0.1dB change, 500 matings
- Operating Temperature: -40ºC to +75ºC

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</tr>
</thead>
<tbody>
<tr>
<td>951-191-111</td>
<td>XPFit Plus LC Connector SM: PC 900µm/250µm (120 pack)</td>
<td>Blue</td>
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<tr>
<td>951-291-411</td>
<td>XPFit Plus LC Connector MM: 50/125 900µm/250µm (120 pack)</td>
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<td>XPFit Plus LC Connector MM: 62.5/125 900µm/250µm (120 pack)</td>
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<td>951-491-511</td>
<td>XPFit Plus LC Connector MM: 50/125 10G OM3 900µm/250µm (120 pack)</td>
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</table>

12 pack available Add -12 to existing part number

Note: Specifications shown above were obtained using SENKO recommended products and procedures.

**XP Fit Plus SC**

**FIELD INSTALLABLE CONNECTOR**

- Insertion Loss: 0.2dB (PC)
- Return Loss: 55dB (PC)
- Durability: <0.1dB change, 500 matings
- Operating Temperature: -40ºC to +75ºC

**PART NUMBER DESCRIPTION HOUSING BOOT COLOR**

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<td></td>
</tr>
<tr>
<td>318-091-427</td>
<td>XPFit Plus SC Connector SC: APC 900µm/250µm (120 pack)</td>
<td>Green</td>
<td>White</td>
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<tr>
<td>318-291-727</td>
<td>XPFit Plus SC Connector MM: 50/125 900µm/250µm (120 pack)</td>
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<td>White</td>
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</tr>
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<td>XPFit Plus SC Connector SC: APC Drop Cable</td>
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<td>Black</td>
<td></td>
</tr>
</tbody>
</table>

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Note: Specifications shown above were obtained using SENKO recommended products and procedures.