



CLEANING SUPPLIES

Dry Cleaning Solutions | Wet Cleaning Solutions | Cleaning Kits

FOCIS | FOCIS PRO | FOCIS WiFi

Founded in 1984, AFL is a global leader providing fiber optic products, equipment, and engineering services to the telecommunications, electric utility, wireless, energy, private network and OEM markets. AFL also serves a diverse mix of industry segments that include service providers, military and defense, mining, oil and gas, and biomedical.

AFL brings years of experience in developing solutions for customers, fostering a creative culture to drive and deploy innovative technologies that will improve communications for years to come. Our product line consists of fiber optic cable, optical connectivity, fusion splicers and test equipment as well as fiber management systems, closures and accessories.

AFL is dedicated to bringing our customers a quality product as well as delivering superior value.



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MU/LC

SC/ST/FC

ODC



Mini-100 MU/LC



Mini-100 SC, ST, FC



Mini-500 MU/LC



Mini-500 SC, ST, FC

One-Click Cleaner Series

Features

- Cleans connectors on jumpers and in adapters
- Low cost per clean
- Effective on a variety of contaminants including dust and oils
- Ergonomic, comfortable design with single action cleaning
- Automatic advance ensures each clean is performed with fresh cleaning tape
- Compliant with EU/95/2002/EC Directive (RoHS)
- Compact One-Click Cleaner Mini versions available
- Available with enlarged cleaning area up to 2 mm
- Duplex LC version available
- MPO/MTP version available

The Original One-Click Cleaner

The One-Click Cleaner is an easy-to-use option for cleaning connectors on jumpers and in adapters. Simply insert the One-Click Cleaner into an adapter and push until an audible “click” is heard. The One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently cleaned. The One-Click Cleaner is a must-have for field technicians. Small enough to fit in a shirt pocket and a great addition to cleaning kits. Save your wrist – no more twist!

Rugged ODC® Version

With the increasing demand of Outdoor Connector (ODC) plug and socket styles, the ODC One-Click Cleaner, which cleans the ferrules in ODC plug, socket and 1.25 mm ferrules, is an essential cleaning tool for WiMax Base Station, Fiber-to-the-Antenna, Broadcasting and Surveillance Video technicians.

Compact One-Click Cleaner Mini

Offering the same technology and performance as the original, the One-Click Cleaner is now available in a smaller, more compact size, which allows for cleaning of connectors in tighter places. Its smaller size also makes it a great addition to test kits and cleaning kits. The One-Click Mini that is offered by AFL as a low cost solution with 100+ cleans per unit is now also available with same 500+ cleans per unit as the standard One-Click. The One-Click Mini is an effective, easy-to-use cleaning solution for SC, ST, FC, LC, MU and TFOCA connectors.



D-LC (Duplex LC)

2.5 Ultra

One-Click Cleaner MPO

One-Click Cleaner Series

One-Click Cleaner Ultra 2.5

The One-Click Cleaner Ultra 2.5 has an enlarged cleaning area to clean more of the connector end-face. Cleaning up to a 2 mm diameter area of the connector end-face, the One-Click Cleaner Ultra 2.5 is a superior cleaner for SC, ST, and FC connectors.

One-Click Cleaner D-LC (Duplex LC)

Reduce cleaning time with the new One-Click Cleaner D-LC. Offering the same performance and easy-to-use one-click technology as the original, the One-Click Cleaner D-LC cuts cleaning time in half by effectively cleaning both LC connectors of a duplex LC at one time. 500+ duplex LC cleans per cleaner (1000+ LC connector cleans).

One-Click Cleaner MPO

Designed to clean MPO and MTP® multi-fiber connectors used in Data Centers and other high density optical networks, the new One-Click Cleaner MPO is a revolutionary push-type cleaner, which simplifies cleaning of the ferrule end-face of both MPO/ MTP exposed connectors and connectors in adapters. As with all One-Click Cleaners, the One-Click Cleaner MPO uses the innovative push-to-clean design. The mechanical push action advances the optical grade cleaning tape while effectively and gently cleaning the end-face of the connector.

Ordering Information

MODEL	DESCRIPTION	LENGTH	BASE	AFL NO.
One-Click SC, ST, FC	One-Click Cleaner SC, ST, FC (500 cleans)	172 mm (6.88 in)	17.5 x 17.5 mm (0.7 x 0.7 in)	8500-05-0001MZ
One-Click MU/LC	One-Click Cleaner MU/LC (500 cleans)	172 mm (6.88 in)	17.5 x 17.5 mm (0.7 x 0.7 in)	8500-05-0002MZ
One-Click ODC	One-Click Cleaner ODC (outdoor connector, 500 cleans)	172 mm (6.88 in)	17.5 x 17.5 mm (0.7 x 0.7 in)	8500-05-0004MZ
One-Click Mini-100 SC, ST, FC	One-Click Cleaner Mini-100 SC, ST, FC (100 cleans)	120.65 mm (4.75 in)	17.5 x 30.2 mm (0.7 x 1.2 in)	8500-05-0005MZ
One-Click Mini-100 MU/LC	One-Click Cleaner Mini-100 MU/LC (100 cleans)	120.65 mm (4.75 in)	17.5 x 30.2 mm (0.7 x 1.2 in)	8500-05-0006MZ
One-Click Mini-500 SC, ST, FC	One-Click Cleaner Mini-500 SC, ST, FC (500 cleans)	120.65 mm (4.75 in)	17.5 x 30.2 mm (0.7 x 1.2 in)	8500-05-0009MZ
One-Click Mini-500 MU/LC	One-Click Cleaner Mini-500 MU/LC (500 cleans)	120.65 mm (4.75 in)	17.5 x 30.2 mm (0.7 x 1.2 in)	8500-05-0010MZ
One-Click Ultra Cleaner 2.5	One-Click Ultra Cleaner 2.5 SC, ST, FC (enlarged cleaning area, 500 cleans)	203.2 mm (8 in)	22.2 x 33.3 mm (0.8 x 1.3 in)	8500-05-0007MZ
One-Click D-LC	One-Click Ultra Cleaner D-LC (Duplex LC, 500 cleans x 2)	195 mm (7.7 in)	18 x 30 mm (0.7 x 1.2 in)	8500-05-0008MZ
One-Click MPO	One-Click Cleaner MPO (MPO/MTP®, 500 cleans)	203.2 mm (8 in)	19 x 44.5 mm (0.8 x 1.8 in)	8500-05-0030MZ



International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts



Cletop -S Series



Cletop Series

Cletop Cassette Cleaner Series

The Cletop connector cleaner is a rugged palm-sized cleaner that offers exceptional performance with a proven track record. The choice of many leading manufacturers and telecom carriers worldwide for nearly 20 years – Cletop is a name you can rely on.

Why Clean Fiber Connectors?

- Pits and scratches are often caused by dirt
- Dust, dirt, oils, etc. are everywhere and will migrate to exposed connector end-faces
- Dirty connectors attenuate signal levels and can increase digital bit error rates
- Always clean both connectors when mating / unmating to avoid contamination transfer

Cletop Cassette Cleaner Options

- Cletop Series - Original version (proven reliability)
- Cletop –S Series - Second generation cleaner offering the same Cletop cleaning performance with “Drop-in” replacement tape cartridge and ergonomic design that works equally well for left or right handed operators
- Type A and -SA - Designed for single 2.5mm ferrules (SC, FC, ST, & D4)
- Type B and -SB - Cleans SC, SC2, FC, ST®, DIN, D4, MU, LC, MT, MPO/MTP® without pins, MT-RJ without pins
- Type MPO - Accepts MPO/MTP connectors with pins
- Type MT-RJ - Accepts MT-RJ connectors with pins

Features

- Compact and lightweight design is ideal for use in laboratories, assembly lines, or in the field
- Consistent cleaning results without IPA alcohol, which is toxic, flammable, and leaves a residue on fiber ends (white haze)
- Excellent anti-static properties for static sensitive applications and to minimize reattachment of dust to ferrule after cleaning
- Simple push button shutter operation exposes cleaning tape only when in use – minimizing unwanted dust
- Replaceable and cost effective cleaning tape
- Over 400 wipes per tape

Cletop Cassette Cleaner Series

Specifications

Size	130 x 75 x 40 mm (5.1 x 3.0 x 1.6 in)
Weight	160 g/0.35 lb

Ordering Information

DESCRIPTION	AFL NO.
CLETOP – S SERIES	
Cletop -SA with Blue Tape	8500-10-0020MZ
Cletop -SB with Blue Tape	8500-10-0029MZ
Cletop -SB with White Tape	8500-10-0016MZ
Replacement Tape Type S - Blue	8500-10-0021MZ
Replacement Tape Type S - White	8500-10-0017MZ
CLETOP ORIGINAL SERIES	
Cletop Type A with Blue Tape	8500-10-0027MZ
Cletop Type A with White Tape	8500-10-0011MZ
Cletop Type B with Blue Tape	8500-10-0028MZ
Cletop Type B with White tape	8500-10-0014MZ
Cletop for MT-RJ with pins (White Tape)	8500-10-0032MZ
Cletop for MPO/MTP with pins (White Tape)	8500-10-0033MZ
Replacement Tape Blue	8500-10-0012MZ
Replacement Tape White	8500-10-0015MZ



International Sales and Service Contact Information

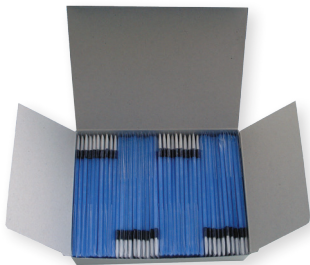
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Type 2.5 mm



Type 1.25 mm



Cletop Adapter Cleaning Sticks

Cletop (ACT) adapter cleaning sticks are an easy to use efficient means of cleaning fiber optic connectors in adapters and cleaning adapter alignment sleeves. Cletop sticks are available in sizes for most common commercial connectors (ST, SC, FC, LC, MU), military connectors, and LEMO connectors for video applications. When connectors need to be cleaned inside adapters, you can rely on the Cletop stick.

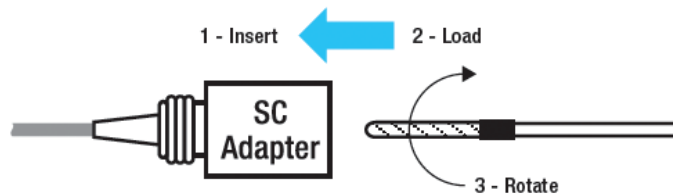
Features

- Easy to use and efficient. Delivers a consistently high level of cleaning performance.
- Easy to clean ferrule end-faces inside the plug-in fiber optic connectors and various adapters.
- Lightweight and safe to use. Compact and disposable.
- Suitable for cleaning inside adapters for dust control.

Ordering Information

DESCRIPTION	CONNECTORS	AFL NO.
ACT-01 — 2.5 mm Cletop Sticks (Box of 200)	FC, SC, ST, & D4	8500-10-0024MZ
ACT-02 — 1.25 mm Cletop Sticks (Box of 200)	LC & MU	8500-10-0022MZ
ACT-03 — 2.0 mm Cletop Sticks (Box of 200)	Military Termini.	8500-10-0023MZ
Double-ended 2.0/2. mm Cletop Sticks (Box of 100)	High definition television camera connectors such as LEMO.	8500-10-0030MZ
2.5mm Cletop Stick with Guide Sleeve (Box of 100)		8500-10-0031MZ

Recommended Cleaning Procedure for ACT Cleaning Sticks



Procedure:

- 1. Insert:** Ensure that stick is held straight when inserting into sleeve.
- 2. Load:** Apply sufficient pressure (approx. 600-700 g) to ensure ferrule is a little depressed in sleeve.
- 3. Rotate:** Rotate stick clockwise 4-5 times, while ensuring direct contact with ferrule end-face is maintained.

Notes:

1. Number of possible wipes:
Maintenance (repair) ~1 use
Equipment construction: 4 uses (max.)
2. FCC2 Fluid will improve cleaning performance.

International Sales and Service Contact Information

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CleanConnect 500



Replacement Reel

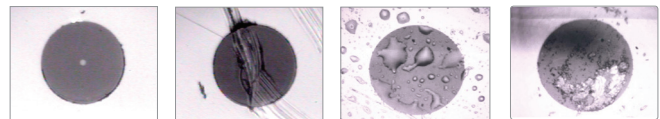
CleanConnect 500

Features

- A solvent/alcohol free dry cleaning solution without residues
- 500 cleans per replaceable cleaning tape reel
- Effective one wipe cleaning
- Lint free anti-static microfiber fabric cleaning tape
- Cleanroom manufactured cleaning tape
- Easy replaceable cleaning tape reels
- Ergonomic hand-held design
- Suitable for laboratory or field use

Optical Fiber Connector Cleaner

The CleanConnect 500 effectively removes contaminants such as oil, dust and dirt particulates that cause high insertion loss and reflectance and lead to permanent connector damage and network failures. The special lint free anti-static microfiber fabric cleaning tape traps contaminants without leaving the residues of solvents and alcohol. Each replaceable cleaning tape reel cleans over 500 connectors making the CleanConnect 500 a cost effective cleaning tool. The CleanConnect 500 cleans a wide variety of UPC and APC connectors such as SC, FC, ST, LC, MU, E2000, and others.



Clean end-face

Deep groove

Oil / finger print

Dirt / debris

Ordering Information

MODEL	DESCRIPTION	AFL NO.
CleanConnect 500	CleanConnect 500 Optical Fiber Connector Cleaner, 500 Cleans	8500-30-0900MZ
CleanConnect 500 Replacement Reel	CleanConnect 500 Replacement Reel, 500 Cleans	8500-30-0901MZ

International Sales and Service Contact Information

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NEOCLEAN



NEOCLEAN-E



NEOCLEAN-M

Features

- Simple one-push action cleans connectors on jumpers or in adapters
- NEOCLEAN-E for SC, FC, ST, E2000, LC and MU connectors with UPC or APC polishes
 - Simple to use refillable design features replaceable cleaning cartridge
 - >750 cleans per cartridge; low cost per clean
- NEOCLEAN-M for MPO and MTP connectors
 - 600 cleans per unit; low cost per clean
- RoHS Compliant

NEOCLEAN-E

The NEOCLEAN-E uses a simple one-push action to quickly and effectively clean contamination from the end-face of connectors on jumpers or in adapters, reducing cleaning time. It is effective for removing oil, dust, and dirt particulates that can have a negative impact on fiber optic network performance. The replaceable cleaning cartridge can perform 750 cleans, reducing cleaning cost. Available for SC, FC, ST, E2000, LC and MU connectors with UPC or APC polishes.

NEOCLEAN-M

The NEOCLEAN-M is designed for cleaning MPO and MTP® multi-fiber connectors used in Data Centers and other high density optical networks. It uses a one-push operation, which simplifies cleaning of the ferrule end-face of both MPO and MTP exposed connectors and connectors in adapters. The one-push operation advances the specially designed microfiber tape while effectively and gently cleaning the of the connector.

Specifications

PRODUCT	NEOCLEAN-E1	NEOCLEAN-E2	NEOCLEAN-E3	NEOCLEAN-M
Applicable Connectors	MU, LC UPC/APC	SC, FC UPC/APC	SC, FC, ST, E2000 UPC/APC	MPO/MTP
Number of Cleans	>750	>750	>750	>600
Cleaning Area	0.5 mm	0.8 mm	0.8 mm	
Length (Main Unit)	240 mm	230 mm	230 mm	197 mm
Length (Refill Cartridge)	190 mm	190 mm	190 mm	N/A

Ordering Information

MODEL	APPLICABLE CONNECTORS & DESCRIPTION	AFL NO.
NEOCLEAN-E1	For MU, LC (UPC/APC polishes) connectors	8500-15-0900MZ
NEOCLEAN-E2	For SC, FC (UPC/APC polishes), OpiTap connectors	8500-15-0901MZ
NEOCLEAN-E3	For SC, ST, FC, E2000 (UPC/APC polishes), OpiTap connectors	8500-15-0902MZ
NEOCLEAN-ES1	Pack of 3 replacement cartridges for NEOCLEAN-E1	8500-15-0903MZ
NEOCLEAN-ES2	Pack of 3 replacement cartridges for NEOCLEAN-E2	8500-15-0904MZ
NEOCLEAN-ES3	Pack of 3 Replacement cartridges for NEOCLEAN-E3	8500-15-0905MZ
NEOCLEAN-M	For MPO/MTP connectors	8500-15-0909MZ

International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts



OPTIPOP-C

Features:

- High performance cleaning cloth captures dirt particulates
- Minimizes static attraction
- Available for SC, FC, ST, LC and MU connectors with UPC or APC polishes.
- Accommodates LC, MU and SC duplex connectors
- Suitable for laboratory or field use
- Refillable cards with 12 cleanings per card

Card Cleaner for Fiber Optic Connectors

The OPTIPOP-C cloth card cleaner uses a unique, densely woven micro fiber cloth that provides a superior connector cleaning performance. It minimizes static charge to ensure that dust and dirt particles are not instantly attracted back to the connector end-face. The card cleaner effectively removes contaminants such as oil, dust and dirt particulates that cause high insertion loss and reflectance that lead to connector damage and network failures.

Ordering Information

MODEL	DESCRIPTION	DIMENSIONS	AFL NO.
OPTIPOP-C	OPTIPOP Card Cleaner case, 10 cleaning cards, 120 cleanings - 12 per card	57 x 120 x 16 (mm)	8500-25-0900MZ
OPTIPOP-C Refills	OPTIPOP Refill Cards, 100 cards, 1200 cleanings - 12 cleanings per card		8500-25-0901MZ

International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts



NEW



Contains 3,200 Cleanings

NEW



Contains 400 Cleanings

NOYES® CleanWipes™

Features

- High-modulus cleaning material won't rip, tear, shred or lint
- Super-soft material won't scratch end-faces
- Static-dissipative material eliminate static
- Color-coded CleanSlots™ monitor the cleaning process
- Large 3200 cleans box for high volume, high-speed cleaning required by fiber optic patch cord and components manufactures
- Smaller 400 cleans box is perfect for field technicians

CleanWipes

Sticklers™ brand CleanWipes are a convenient cleaning tool designed for high-speed cleaning of optical jumpers and patch cords. Its designs enables technicians to clean fiber optic end-faces at the lowest possible cost per clean.

The exclusive, static-dissipative, high-modulus fabric cleaning material will not tear or shred away even when cleaning LC connectors. The highly absorbent material is very soft, will not scratch connectors and delivers superior cleaning results.

The color-coded CleanSlots tracks remind technicians to never re-use a wipe, eliminating cross-contamination. The box design also eliminates the chance of cleaning on an already used wipe and minimizes fingertip contamination.

The CleanWipes system offers a simple, fast and disciplined cleaning process that delivers perfectly clean connectors. Better cleaning makes networks run faster and avoids expensive service calls.

Ordering Information

MODEL	DESCRIPTION	AFL NO.
CleanWipes 400	CleanWipes - box with 400 optical quality wipes	9000-03-0029MZ
CleanWipes 3200	CleanWipes - box with 3200 optical quality wipes	9000-03-0030MZ



Kimwipes

Kimwipes are specially designed paper wipes which can be used for cleaning laboratory equipment and instruments, camera lens, fiber optic connectors and other electronic items. These delicate task wipes have been specially designed for cleaning those surfaces where the presence of minimal lint or dust can interfere with the normal functioning of the equipment or electronic item. Kimwipes are extremely useful wherein even the slightest contamination introduced by a cleaning medium like cloth or tissue paper can lead to serious errors or abrasion to the equipment. Kimwipes are an ideal cleaning solution for laboratories and manufacturing facilities.

Kimwipes have a high tensile strength which reduces tearing during cleaning yet are soft and non-abrasive. These wipes are also highly absorbent allowing them to be used for wet cleaning of fiber optic connectors with the FCC2 Fiber Optic Cleaning Fluid or as a dry cleaning solution. Use Kimwipes with the FPF1 Fiber Preparation Fluid for cleaning fibers before fusion splicing and terminating connectors.

Features

- High quality low lint wipe
- Soft and non-abrasive
- Extremely absorbent
- 280 wipes per box

Applications

- Ideal for laboratories and manufacturing facilities
- Wet or dry cleaning for fiber optic connectors
- Fiber preparation before splicing or terminating connectors
- Cleaning of laboratory equipment and electronics

Ordering Information

DESCRIPTION	AFL NO.
Kimwipes box of 280 wipes	9000-03-0002

International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts



NOYES® FCC2 Fiber Connector Cleaner

FCC2 is a nonflammable, environmentally safe, residue-free solvent engineered to clean fiber connector end-faces. A new and improved design of the three-way dispenser is intended for easy one-handed use with fiber wipes, convenient wetting of CCT connector cleaning tips and spray nozzle functionality. Packaged in unique, spill-proof containers, it can be shipped with tool kits so technicians avoid wasting time sourcing a cleaner locally. Offering high purity and fast, consistent cleaning, FCC2 was developed with and is packaged by Micro Care Corporation, a world leader in cleaning solvents.

Features

- New three-way dispenser in one convenient package
- Electrically conductive, FCC2 neutralizes “particle cling” by releasing ionic bonds that bind contaminants to the fiber end-face
- Double-filtered to 0.2 microns, this optical grade solvent leaves no residue when drying
- Less drying time than IPA Alcohol
- Low odor, nonflammable
- Ozone safe, environmentally safe, U.S. EPA SNAP approved
- Rated Not Hazardous/Not Regulated for all modes of transport, including air cargo
- Can be shipped with a fusion splicer or test equipment
- EU RoHS / WEEE Compliant – FCC2 is certified as a lead-free product and meets RoHS and WEEE standards.

Applications

- Designed for use with CCT Connector Cleaning Sticks
- Excellent for cleaning light oils, salts, moisture, fingerprints, dust, lint, grime, flux residues, and uncured epoxies
- With rapid drying time, the FCC2 is essential when cleaning connectors in adapters where airflow is minimal

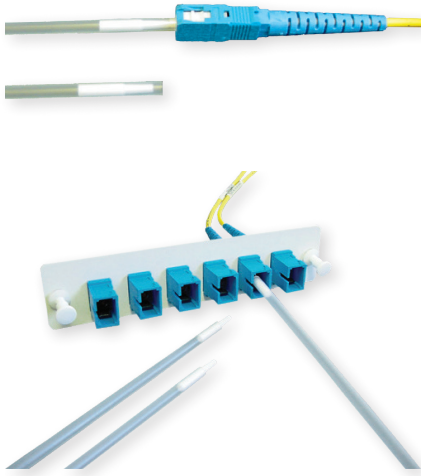
Note: While it is generally safe on plastics, testing is recommended when used on plastic optical fibers.

Health, Safety and Environmental Data

PARAMETER	VALUE
Flashpoint (TCC)	None
Weight	3 oz / 85 g
Safety Rating	Nonflammable
NFPA	Health: 1 Fire: 0 Reactivity: 1
Vapor Density (Air = 1)	4
Ozone Impact	Zero
TSCA Listed	No

Ordering Information

DESCRIPTION	AFL NO.
Fiber Connector Cleaner in 3 oz / 85 g can	FCC2-00-0900
Case of 12 cans	FCC2-00-0901



CCT - Connector Cleaning Tips

AFL is pleased to offer a unique technology in fiber connector end-face cleaning. Rather than a fabric-covered or foam-covered stick, we are offering a molded cleaning tip that will trap contamination and wick cleaning solvents from bulkhead connectors. The cleaning tip is a molded, sintered polymer that is both porous and pliable conforming to virtually any fiber end-face polish geometry while trapping and absorbing contaminants.

Features

- Molded sintered polymer construction assures perfect bulkhead fit and consistent performance with each cleaning tip
- No fibers, binders, adhesives or outgassing that may contaminate the connector
- Traps and holds liquid and particle contaminants in an absorbent open cell matrix ranging from 10-25 microns
- The elastic cleaning head enhances entrapment of particles and oils, while allowing the tip to conform to virtually any fiber end-face geometry (8 degree, domed polish, etc.)
- Very absorbent
- US and Foreign patents pending

Applications

- Dual-head design permits wet and dry cleaning in one swab
- Solvent and chemical resistant, not physically altered by solvent contact
- Designed to work with FCC2 Fiber Connector Cleaner
- Most connectors cleaned the first time

Tip Configurations

- **CCTS and CCTX series:** cleaning tip is exposed for cleaning ferrule end-faces in alignment sleeves that are recessed within sockets or bulkhead adaptors.
- **CCTP series:** cleaning tip is recessed in the "straw" for cleaning exposed ferrules and termini (jumpers). Fits 2.5 mm and smaller ferrules.

Ordering Information

Cleaning tips are available for most common commercial and Mil Spec ferrule sizes.

SIZE (diameter of ferrule or termini)	TYPE	COMMENTS	AFL NO.
2.5 mm	Pin	Examples: SC, ST, FC, etc.	CCTP-25-0900
2.5 mm	Socket	Examples: SC, ST, FC, etc.	CCTS-25-0900
2.0 mm	Pin	Mil T 29504/14 For Mil C 28876	CCTP-25-0900
2.0 mm	Socket	Mil T 29504/15 For Mil C 28876	CCTS-16-0900
1.6 mm	Pin	Mil T 29504/04 For Mil C 38999	CCTP-25-0900
1.6 mm	Socket	Mil T 29504/05 For Mil C 38999	CCTS-16-0900
1.25 mm	Pin	Examples: LC, MU	CCTP-25-0900
1.25 mm	Socket	Examples: LC, MU	CCTS-12-0900
MT ferrule	Pin	Examples: MPO, MPX [®] *	CCTX-MT-0900
MT ferrule	Socket	Examples: MPO, MPX [®] *	CCTX-MT-0900

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International Sales and Service Contact Information

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NOYES® FPF1 Fiber Prep Fluid

FPF1 fluid is a nonflammable, nonhazardous cleaner for use on optical fiber after stripping, prior to termination or fusion splicing, and for cleaning connector end-faces after polishing. A new and improved design of the three-way dispenser is intended for easy one-handed use with fiber wipes, convenient wetting of CCT connector cleaning tips, and spray nozzle functionality. Packaged in unique, spill-proof containers, it can be shipped with tool kits so technicians avoid wasting time sourcing a cleaner locally. Offering high purity and fast consistent cleaning, FPF1 was developed with and is packaged by Micro Care Corporation, a world leader in cleaning solvents.

Features

- New three-way dispenser in one convenient package
- Electrically conductive, FPF1 neutralizes “particle cling” by releasing ionic bonds that bind contaminants to the fiber end-face
- Double-filtered to 0.2 microns, this optical grade solvent leaves no residue when drying
- Less drying time than IPA Alcohol
- Low odor, nonflammable
- Ozone safe, environmentally safe, U.S. EPA SNAP approved
- Rated Not Hazardous/Not Regulated for all modes of transport, including air cargo.
- Can be shipped with a fusion splicer or test equipment
- EU RoHS / WEEE Compliant – FCC2 is certified as a lead-free product and meets RoHS and WEEE standards.

Applications

- Cleaning optical fibers prior to termination or fusion splicing
- Excellent for cleaning light oils, salts, moisture, fingerprints, dust, lint, grime, flux residues and uncured epoxies

Note: While it is generally safe on plastics, testing is recommended when used on plastic optical fibers

Health, Safety & Environmental Data

PARAMETER	VALUE
Weight	85 g / 3 oz
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA	Health: 1 Fire: 0 Reactivity: 1
Vapor Density (Air = 1)	4
Ozone Impact	Zero
TSCA Listed	No

Ordering Information

DESCRIPTION	AFL NO.
Fiber Prep Fluid in 85 g / 3 oz can	FPF1-00-0900
Case of 12 cans	FPF1-00-0901





FiberWipes



FiberAide 1

Features

- Lint free
- Sized for fiber and connector cleaning
- Robust and tear-resistant

FiberWipes is a trademark of MicroCare Corporation.
FiberAide 1 is patent pending.

FiberWipes™

New Material – New Packaging – Superior Wipes

Specifically designed to remove and trap common contaminants found in fiber optic installations, FiberWipes provide superior cleaning results from material that is stronger and more absorbent, yet softer than traditional cellulose wipes. Packaged in a clean room, the fabric is considered “fiber optic grade”. FiberWipes are available in rugged mini-tubs (90 wipes) or in hermetically sealed individual packages (FiberAide 1) and are the perfect size for tool kits and test kits.

Applications

- Cleaning optical fibers prior to termination or splicing
- Cleaning fiber optic connector end-faces
- Cleaning lenses, mirrors, and other optical surfaces

FiberWipes

- Small package footprint ideal for a laboratory or field use
- Rugged 90-wipe mini-tub keeps wipes clean and dry prior to use
- Octagonal cover minimizes rolling distance if dropped
- Solvent safe; may be moistened to provide wet / dry cleaning
- Instructions for use on the side of the tub

FiberAide 1

- Hermetically sealed wipes remain uncontaminated and ready for use
- Foil backed wipes protect skin from cleaning solvents and cable gel
- Packaging contains no glues to leach out
- Button hole for placement on panel board or keychain
- Ideal for shipping with OEM equipment to prevent contamination of fiber surfaces at installation
- Solvent safe; may be moistened to provide wet / dry cleaning
- Pictorial instructions on each package

Specifications

PRODUCT	WIPE SIZE	PACKAGE SIZE	PACKAGE WEIGHT
FiberWipes	4.25" W x 2" H	3" Dia x 3" H	2.6 oz
FiberAide 1	2.75" W x 1.5" H	4.25" W x 2.75" H	0.6 oz / 10 packets

Ordering Information

DESCRIPTION	AFL NO.
FiberWipes – case of 24 mini-tubs (2160 total wipes, 90 wipes per mini-tub)	9000-03-0026MZ
FiberAide 1 – case of 600 packets (60 bundles, 10 packets per bundle)	9000-03-0027MZ

International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts



NOYES® Fiber Optic Cleaning Kits

AFL offers a complete selection of fiber optic cleaning kits for field cleaning of connector end faces in fiber frames, adapters and on jumpers. Using our exclusive FCC2 and FPF1 non-hazardous cleaning fluids and CCT molded cleaning tips, the AFL cleaning kits deliver compact, safe, easy to use, reliable cleaning for all types of fiber optic connector end faces including Military and Multiple Fiber Ferrule designs.



FCP1 Series Cleaning Kit



C182120 Cleaning Kit

Kit Contents by Application

APPLICATION	CLEANING MATERIALS	DESCRIPTION
For cleaning connector end-faces within alignment sleeves (bulkhead adaptors, female socket connectors)	FCC2	Optical quality cleaning fluid
	CCTS-25	2.5 mm cleaning tips for FC, SC, ST type standard connectors
	CCTS-12	1.25 mm cleaning tips for LC, MU type small form factor connectors
	CCTS-16	1.6mm cleaning tips for 2.0 mm and 1.6 mm termini in military connectors and D4 connectors
For cleaning ferrule end-faces that are exposed (jumpers and patch cords)	FCC2	Optical quality cleaning fluid
	Cletop	Reel type cleaner
	CCTP-25	Universal cleaning tip for exposed ferrule and termini end-faces on jumpers or military connectors
For cleaning alignment sleeves	FCC2	Optical quality cleaning fluid
	ACT01	2.5 mm swabs for FC, SC, ST type standard connectors
	ACT02	1.25 mm swabs for LC, MU type small form factor connectors
	Cletop Stick-Type	2.0 mm swabs for D4 connectors
Additional options	8500-05-0001MZ	One-Click Cleaner SC, ST, FC (500+ cleans)
	8500-05-0002MZ	One-Click Cleaner LC/MU (500+ cleans)
	VS 300	Video microscope for end-face inspection
For cleaning fibers prior to fusion splicing or installing FAST™ connectors	FPF1	Optical quality cleaning fluid
	FiberWipes™	Lint free, tear-resistant wipes

See individual data sheets for specification on individual supplies.

Ordering Information

A wide variety of pre-stocked kits makes ordering easy. Choose from the standard kits listed on the page 2 or call us at 800-321-5298 for a custom kit to meet your application needs. To keep your cleaning kits stocked and ready for use, page 3 lists individual cleaning items (refills).

NOYES® AFL Cleaning Kits Selection Guide

Cleaning Supplies

A wide variety of pre-stocked kits offer a complete selection of fiber optic cleaning products for field cleaning of connector end faces in fiber frames, adapters, and on jumpers. Each kit consists of a wall or rack mountable carry case, FCC2 cleaning fluid, and color-coded instructions. Each VS300 Scope includes 2.5 mm Universal Cap. Each stick is double ended, designed for two (2) cleanings.

Wall/Rack Mountable Field Portable Cleaning Kits

AFL NO.	OLD MODEL NUMBER	CCTS-25-0900MZ 40 PIECES FOR FC, SC, ST ADAPTERS BLUE	CCTS-12-0900MZ 40 PIECES FOR LC, MU ADAPTERS GREEN	CCTS-16-0900MZ 40 PIECES FOR D4 AND MIL SOCKET ADAPT. ORANGE	CCTP-25-0900MZ 20 PIECES FOR ALL CONNECTOR END YELLOW	CCTX-MT-0900MZ 20 PIECES FOR MTP, MPO, MPX PINK	CLETOP TYPE	VS300 VIEW SAFE SCOPE
FCP1-00-0900		1	1		2		A	
FCP1-00-0901		1			2		SB	
FCP1-00-0903		1	1	1	2	2		
FCP1-00-0905		1	1	1	2		SB	
FCP1-00-0906		1	1	1	2			
FCP1-00-0907	FCP1-37A	3	1		1	1		
FCP1-00-0908	FCP1-37B	3	1		1	1	SB	
FCP1-00-0909	FCP1-25D	3			1			
FCP1-00-0912	FCP1-25F	5			1			
FCP1-00-0913	FCP1-25A	3			1		SB	
FCP1-00-0914	FCP1-37C	2	1		1		SB	
FCP1-00-0915	FCP1-37D	3	1	1	4	1		
FCP1-00-0916	FCP1-GBE1	2	1		1		SB ^a	
FCP1-00-0926PZ ^d		2	2				SB	
FCP1-00-0927PZ ^e		2	1		1		SB	
FCP1-01-0900		1			2		A	1 ^a
FCP1-01-0901		1			2			1 ^a
FCP1-01-0902		1	1	1	2		SB	1 ^{a, b}
FCP1-01-0903		1	1	1	2			1 ^{a, b}
FCP1-01-0904		2	2		2		A	1 ^a
FCP1-01-0905		1	1		2	1	SB	1 ^{a, b}

Hard Case Cleaning Kits

AFL NO.	OLD MODEL NUMBER	CCTS-25-0900MZ 40 PIECES FOR FC, SC, ST ADAPTERS BLUE	CCTS-12-0900MZ 40 PIECES FOR LC, MU ADAPTERS GREEN	CCTS-16-0900MZ 40 PIECES FOR D4 AND MIL SOCKET ADAPT. ORANGE	CCTP-25-0900MZ 20 PIECES FOR ALL CONNECTOR END YELLOW	CCTX-MT-0900MZ 20 PIECES FOR MTP, MPO, MPX PINK	CLETOP TYPE	VS300 VIEW SAFE SCOPE
FCP1-02-0901PF ^e		3	3		2		SB	1 a, c
FCP1-02-0902PF ^{d, e}		3	3		2		SB	1 a, c
C182120	Description: AFL Connector/Adapter Cleaning Kit. Ships in a hard case with: Cletop –SB (Qty = 1), replacement reel for Cletop –SB (Qty = 1), ACT-01 cleaning tips for 2.5 mm adapters (Qty = 20), FiberWipes (Qty = 2 tubs), can of Fiber Prep Cleaning Fluid (Qty = 1).							

Notes:

- Includes SB replacement cartridge.
- Includes 2.0 mm and 1.25 mm Universal Cap.
- Includes 1.25 mm Universal Cap.
- Includes One-Click SC/ST/FC and One-Click LC/MU.
- Includes a tub of FiberWipes.

NOYES® AFL Cleaning Kit Restocking Guide

Cleaning Fluids and CCT Double Ended Cleaning Sticks

For best results, use CCT sticks with FCC2 fluid.

DESCRIPTION	AFL NO.
FCC2 - Fiber Connector Cleaner: Optical Quality Cleaning Fluid for fiber connector end faces - nonflammable, not hazardous, not regulated (Including air-cargo).	FCC2-00-0900 FCC2-00-0901
FPF1 - Fiber Preparation Fluid: Optical Quality Cleaning Fluid for cleaning optical fiber (after stripping) before field termination or fusion splicing. Also works well as connector end face cleaner after polishing and as electrical contact cleaner - nonflammable, not hazardous, not regulated (Including air-cargo).	FPF1-00-0900 FPF1-00-0901
Connector Cleaning Tips for exposed 2.5 mm, 2.0 mm, 1.6 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers and male Mil C 38999 & 28876). Yellow (20 sticks per tube).	CCTP-25-0900
Connector Cleaning Tips for 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters). Blue (40 sticks per tube).	CCTS-25-0900
Connector Cleaning Tips for 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters). Green (40 sticks per tube).	CCTS-12-0900
Connector Cleaning Tips for MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female Mil C 38999 & 28876 and MT-RJ both jumpers and adapters). Orange (40 sticks per tube).	CCTS-16-0900
Connector Cleaning Tips for Biconic & MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.) Pink (20 sticks per tube).	CCTX-MT-0900

CleTOP Cassette Cleaner Options

DESCRIPTION	AFL NO.
CleTOP –S Series	
CleTOP –SA with Blue Tape	8500-10-0020MZ
CleTOP –SB with Blue Tape	8500-10-0029MZ
CleTOP –SB with White Tape	8500-10-0016MZ
Replacement Tape Type S - Blue	8500-10-0021MZ
Replacement Tape Type S - White	8500-10-0017MZ
CleTOP Original Series	
CleTOP Type A with Blue Tape	8500-10-0027MZ
CleTOP Type A with White Tape	8500-10-0011MZ
CleTOP Type B with Blue Tape	8500-10-0028MZ
CleTOP Type B with White Tape	8500-10-0014MZ
CleTOP for MT-RJ with pins (White Tape)	8500-10-0032MZ
CleTOP for MPO/MTP with pins (White Tape)	8500-10-0033MZ
Replacement Tape Blue	8500-10-0012MZ
Replacement Tape White	8500-10-0015MZ

One-Click Cleaners

DESCRIPTION	AFL NO.
One-Click Cleaner SC, ST, FC (500+ cleans)	8500-05-0001MZ
One-Click Cleaner LC/MU (500+ cleans)	8500-05-0002MZ

**NOYES®
AFL Cleaning Kit Restocking Guide**

Cletop (ACT) Cleaning Sticks

DESCRIPTION	AFL NO.
ACT-01 2.5 mm single-ended sticks (box of 200) for FC, SC, ST, & D4	8500-10-0024MZ
ACT-02 1.25 mm single-ended sticks (box of 200) for LC & MU	8500-10-0022MZ
ACT-03 2.0 mm single-ended sticks (box of 200) for military and high-definition video (LEMO)	8500-10-0023MZ
2.0/2.5 mm double-ended sticks (box of 100) for military and high-definition video (LEMO)	8500-10-0030MZ
2.5 mm single-ended sticks w/ guide sleeve (box of 100) military and high-definition video (LEMO)	8500-10-0031MZ

FiberWipes

DESCRIPTION	AFL NO.
FiberWipes – case of 24 mini-tubs (2160 total wipes, 90 wipes per mini-tub)	9000-03-0026MZ
FiberAide 1 – case of 600 packets (60 bundles, 10 packets per bundle)	9000-03-0027MZ

Refills for Test & Inspection Kits

DESCRIPTION	INCLUDES	AFL NO.
Wet Cleaning Kit	8500-10-0016MZ, Cletop-SB. CCTS-25-0900, Connector Cleaning Tips for 2.5mm ferrule in adapters or sockets (SC, FC, ST in adaptors). Blue (1 tube = 40 sticks). CCTS-12-0900, Connector Cleaning Tips for 1.25mm ferrule in adapters or sockets (LC, MU, etc., in adapters). Green (1 tube = 40 sticks). FCC2-00-0900, Optical Quality Cleaning Fluid for fiber connector end faces.	8500-20-0900
Dry Cleaning Kit	8500-10-0016MZ, Cletop -SB. 8500-10-0024MZ, ACT-01 2.5mm adapter cleaning tips – Qty = 200.	8500-20-0901



NOYES International Sales and Service Contact Information

Available at www.AFLglobal.com/NOYES/Contacts



FCP2-00-0900 Basic Cleaning Kit



FCPR-00-0900 Refill for Basic Cleaning Kit



FCP2-01-0900 Basic Cleaning and Inspection Kit



FCP2-02-0900 Basic Cleaning, Inspection & Test Kit



1400-01-0095PZ Carry Case

Field Portable Duffel Bag Cleaning Kits

The FCP2 kits offer a complete selection of fiber optic cleaning products for field cleaning of connector end-faces in a convenient duffel bag style carry case.

The Basic Cleaning Kit includes FCC2 cleaning fluid, One-Clicks for SC, ST, FC, LC and MU connectors, FiberWipes™ and a Cletop SB. The carry case has room to add additional cleaning supplies, inspection scope, or test equipment. FCP2 kit options are available with inspection, loss testing and MPO/MPT cleaning capabilities.

FCC2 Fiber Connector Cleaner

FCC2 is a nonflammable, environmentally safe, residue-free solvent engineered to clean fiber connector end-faces. A new and improved design of the 3-way dispenser intended for easy one-handed use with fiber wipes, convenient wetting of CCT connector cleaning tips, and spray nozzle functionality. Packaged in unique, spill-proof containers, it can be shipped with tool kits so technicians avoid wasting time sourcing a cleaner locally.

- **New 3-way dispenser** in one convenient package
- Electrically conductive, FCC2 neutralizes "particle cling" by releasing ionic bonds that bind contaminants to the fiber end-face
- Double-filtered to 0.2 microns, this optical grade solvent leaves no residue when drying
- Less drying time than IPA Alcohol
- Low odor, nonflammable
- Ozone safe, environmentally safe, US EPA SNAP approved
- Not Hazardous/Not Regulated for all modes of transport, including air cargo
- Excellent for cleaning light oils, salts, moisture, fingerprints, dust, lint, grime, flux residues and uncured epoxies
- With rapid drying time, the FCC2 is essential when cleaning connectors in adapters where airflow is minimal

One-Click Cleaner

The One-Click Cleaner is an easy-to-use option for cleaning connectors on jumpers and in adapters. Simply insert the One-Click Cleaner into an adapter and push until an audible "click" is heard. The One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently cleaned.

- Cleans connectors on jumpers and in adapters
- Ergonomic, comfortable design with single action cleaning
- Precise mechanical action delivers consistent cleaning results
- Low cost per clean
- Effective on a variety of contaminants including dust and oils
- Automatic advance ensures each clean is performed with fresh cleaning tape
- Compliant with EU/95/2002/EC Directive (RoHS)

Field Portable Duffle Bag Cleaning Kits

FiberWipes™

Specifically designed to remove and trap common contaminants found in fiber optic installations, FiberWipes provide superior cleaning results from material that is stronger and more absorbent, yet softer than traditional cellulose wipes. Packaged in a clean room, the fabric is considered “fiber optic grade”.

- Cleaning optical fibers prior to termination or splicing
- Cleaning fiber optic connector end-faces
- Cleaning lenses, mirrors, and other optical surfaces
- Small package footprint ideal for a laboratory or field use
- Rugged 90-wipe mini-tub keeps wipes clean and dry prior to use
- Solvent safe; may be moistened to provide wet/dry cleaning
- Instructions for use on the side of the tub

CleTOP Cassette Cleaner

The CleTOP connector cleaner is a rugged palm-sized cleaner that offers exceptional performance with a proven track record. The choice of leading manufacturers and telecom carriers worldwide for nearly 20 years – CleTOP is a name you can rely on.

- Compact design is ideal for use in labs, assembly lines, or in the field
- Consistent cleaning results without IPA alcohol, which is toxic, flammable, and leaves a residue on fiber ends (white haze)
- Excellent anti-static properties for static sensitive applications and to minimize reattachment of dust to ferrule after cleaning
- Simple push button shutter operation exposes cleaning tape only when in use – minimizing unwanted dust
- Replaceable and cost effective cleaning tape
- Over 400 wipes per tape

Ordering Information

Basic Cleaning and Inspection Kit

This kit adds inspection capabilities to the Basic Cleaning Kit with an OFS300-200 inspection scope. The kit includes OFS300-200 inspection scope, One-Clicks for SC, ST, FC, LC and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB and convenient duffle bag carry case.

Basic Cleaning, Inspection and Test Kit

Adds inspection along with multimode and single-mode loss test capabilities. The kit includes OFS300-200 inspection scope, CSM1-2 contractor series power meter, CSS1-MM contractor series multimode light source, CSS1-SM contractor series single-mode light source, One-Clicks for SC, ST, FC, LC and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB and convenient duffle bag carry case.

DESCRIPTION	INCLUDES	AFL NO.
Basic Cleaning Kit with Carry Case	One-Clicks for SC, ST, FC, LC and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB and Carry Case	FCP2-00-0900
Refill for Basic Cleaning Kit (no Carry Case)	One-Clicks for SC, ST, FC, LC and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB	FCPR-00-0900
Basic Cleaning Kit with MPO Cleaners and Carry Case	One-Clicks for SC, ST, FC, LC, and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB, MPO/MTP Cleaner and Carry Case	FCP2-00-0901
Basic Cleaning and Inspection Kit	OFS300-200 inspection scope, One-Clicks for SC, ST, FC, LC, and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB	FCP2-01-0900
Basic Cleaning, Inspection and Loss Test Kit	OFS300-200 inspection scope, CSM1-2 power meter, CSS1-MM multimode light source, CSS1-SM single-mode light source, One-Clicks for SC, ST, FC, LC, and MU connectors, FCC2 cleaning fluid, FiberWipes, CleTOP SB	FCP2-02-0900
Carry Case	Field Portable Duffle Bag Cleaning Supplies Carry Case	1400-01-0095PZ



International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts



Splicer V-groove Cleaning Refill Kit



CS-1 Cotton Swabs

Splicer V-groove Cleaning Kit

Today's splicing equipment is fast, efficient, and requires minimal maintenance due to advances in splicing technology. However, contamination in the V-groove of the splicer is still a primary source of trouble for the splicing technician. This is especially problematic when splicing with a fixed V-groove fusion splicer. Environmental contamination, such as dust, dirt and fiber coating debris, as well as the silica deposits generated during the fusion process eventually find their way to the surface of the v-groove. This contamination will offset the fibers and degrade performance. To help control this problem, a disciplined cleaning regimen and specific tooling is required to ensure the splice is right the first time.

To solve cleaning needs, AFL offers the Splicer V-groove Cleaning Kit. This product integrates eight components into an affordable and effective inspection and cleaning solution for any fusion splicer. Small and lightweight, it fits easily into the Fujikura splicer transit case or it can be carried separately in its own carrying case.

Kit Includes

- Scrubber Brush with stiff tapered nylon bristles
- Sweeper Brush with soft nylon bristles
- Eye Loupe with 3X to 12X magnification
- LED Pen Light with momentary or constant on switching
- Cleaning Fluid that is nonflammable and environmentally safe
- Lint-free Cotton Swabs
- Instruction Sheet with illustrations
- Canvas Carrying Case

Refill Kit Includes

To replenish the consumables within the kit, AFL provides a refill kit that includes the following components:

- One can of FPF1 Cleaning Fluid
- One Scrubber Brush
- One Sweeper Brush
- Ten packs CS-1 Cotton Swabs (250 swabs)

Ordering Information

DESCRIPTION	AFL NO.
Splicer V-groove Cleaning Kit	S014397
Splicer V-groove Cleaning Refill Kit	S014416
CS-1 Cotton Swabs (pack of 25 swabs)	S003719

FOCIS PRO Fiber Optic Connector Inspection System

U.S. Patents Pending



Features

- Automatic Analysis of fiber end-face
- Built-in IEC 61300-3-35, AT&T-TP-76461 and user-defined limits
- 1.3 μm /pixel analysis resolution
- 0.5 μm visual detection capability
- 1.0 μm optical system resolution
- 400 μm x 350 μm field of view
- Paired fiber images for comparing before/after, input/output, etc.
- Integrated focus and snapshot controls
- Capture, save, review and share images

Applications

- Automatic Analysis of PC/UPC and APC connectors
- Analyze-Clean-Analyze-Document workflow
- Manual Inspection of MPO connectors
- Document "as-built" or "as found" condition of connectors

The AFL family of FOCIS PRO automatic fiber inspection solutions provides network personnel with the capability to analyze and document fiber connector cleanliness and integrity. FOCIS PRO combines a palm-sized DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope and AFL SimpleView PRO analysis and inspection software to provide the advanced analysis capabilities of current laptop and probe solutions and the ergonomics, ease of use, ruggedness and ownership costs of basic "live only" viewers. FOCIS PRO solutions are future-proof because their optical resolution and detection specifications exceed current international standards and their software-based analysis and inspection applications can be upgraded as market requirements evolve.

The DFD1 Touchscreen Tablet is a purpose-built Windows® computer equipped with AFL's powerful SimpleView PRO analysis software. Capable of centering a fiber image, identifying critical core, cladding, adhesive and contact zones and detecting and tallying the types of defects found, this software analyzes a typical fiber in under 5 seconds. The bright, crisp display provides detailed images and a Zoom/Pan feature allows the user to identify the smallest particles, scratches and imperfections. Portrait orientation makes it easy to hold and operate with just one hand. Unique to FOCIS PRO/FOCIS products is an image pairing feature, which simplifies before/after, jumper/bulkhead, input/output, near/far and other common fiber cleanliness comparisons. Additional features include image capture and store/recall. Up to 1000 fiber images may be stored in on-board memory and images may be transferred via any off-the-shelf USB memory stick or SD flash card. The DFD1 incorporates a proven shock-absorbing rubber boot that doubles as a tilt stand and hanger.

The DFS1 Digital FiberScope is a high resolution video inspection probe. It is equipped with a focusing knob and an image capture button. An extensive assortment of DFS1 adapter tips allow it to be used with all types of fiber connector ferrules and bulkhead connectors. Bulkhead tips are available in multiple lengths as well as straight and 60° angle. Connector adapters are available in PC/UPC, APC polished ferrule in 1.25 mm, 2.5 mm and MPO connectors.

* User Interface is now available in English and Japanese.

FOCIS PRO Fiber Optic Connector Inspection System

U.S. Patents Pending



Available Product Configurations

FOCIS PRO analysis and inspection systems are available in 6 different configurations to provide fiber installers, network activation crews and maintenance personnel with the essential tools needed to analyze, clean and document proper fiber end-face integrity. These kits combine analysis and cleaning products and are available in a standard hard carry case. All kits include AFL SimpleView PRO application software and FOCIS PRO printed user's guide.

FOCIS PRO TroubleFinder Kit

This kit includes an OPM5-5D Optical Power Meter, a HiLite Visible Fiber Identifier, a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, APC and PC/UPC probe tip adapters, and One-Click Mini cleaners for SC/FC/ST and LC/MU connectors packed in a hard carry case.

FOCIS PRO PC/UPC Analysis and Cleaning Kit

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, PC/UPC probe tip adapters, and One-Click Mini cleaners for SC/FC/ST connectors in a hard carry case.

FOCIS PRO APC Analysis and Cleaning Kit

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, APC and PC/UPC probe tip adapters, and One-Click Mini cleaners for SC/FC/ST and LC/MU connectors packed in a hard carry case.

FOCIS PRO Data Center Analysis and Cleaning Kit

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, APC and PC/UPC MPO probe tip adapters, LC probe tip adapters, MPO One-Click cleaner and One-Click Mini LC cleaner packed in a hard carry case.

FOCIS PRO Analysis Kit (No Probe Tips or Cleaners)

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope and a hard carry case.

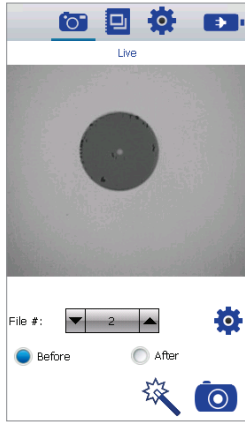
FOCIS PRO Upgrade Kit for DFS1 Owners

This kit is designed to allow an existing DFS1 Digital FiberScope owner to upgrade to the FOCIS PRO system. This kit includes only a DFD1 Touchscreen Tablet and a hard carry case.

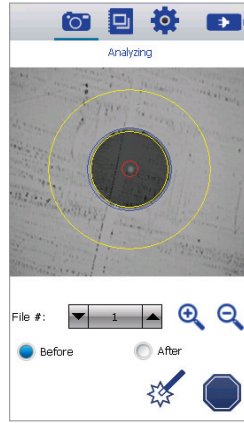
FOCIS PRO Upgrade Kit for FOCIS Owners

This kit is designed to upgrade any FOCIS system to its FOCIS PRO equivalent. The FOCIS PRO Upgrade kit includes a "single install" copy of AFL SimpleView PRO and a FOCIS PRO printed user's guide.

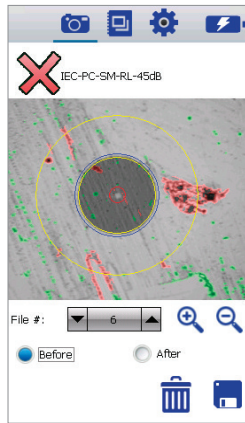
FOCIS PRO Powerful Inspection and Image Management Features *



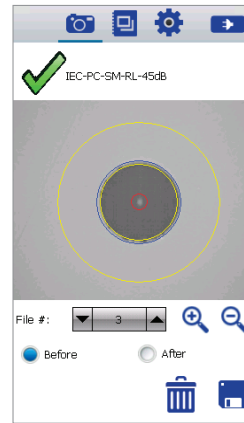
Live Image



Analysis



Failing Fiber



Passing Fiber

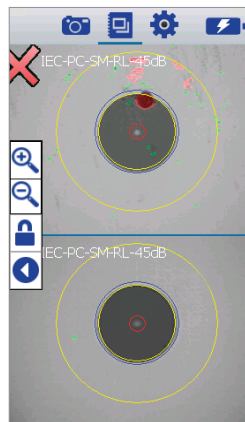


Image Review - Pair Image



File Manager

Live Image Mode

The FOCIS PRO system includes a Live Image viewing mode that works just like any legacy fiber inspection scope. Images transmitted by the DFS1 FiberScope are presented on the hand-held DFD1 Touchscreen Tablet that provides a high resolution display with a field of view of approximately 350 x 400 μm .

Analysis Mode

FOCIS PRO is equipped with powerful automatic inspection capabilities that provide objective measurement of fiber end-face integrity. Using artificial intelligence-based machine vision algorithms, FOCIS PRO centers the end-face image, identifies core, cladding, adhesive and contact zones, finds, measures and tallies scratches and particles and provides a pass/fail decision based on IEC 61300-3-35, AT&T TP 76461 or user defined fiber end-face criteria.

Capture Mode with Zoom and Pan

FOCIS PRO enables users to capture live images for the purpose of subsequent inspection and documentation of fiber end-face conditions. Once captured, the user has the option of Zooming and Panning the image, deleting the image or saving it to a folder. The FOCIS PRO system can store more than 1000 fiber images in memory.

Review Mode with Image Pairing

FOCIS PRO features the capability to pair images as before/after, input/output, Cleaning, mating and other common fiber cleanliness comparisons. Easy-to-use Zoom and Pan touchscreen controls provide users with the capability to closely inspect any portion of the fiber image.

File Manager with Image Browser

FOCIS PRO enables users to store fiber images in internal memory and to transfer images to an external memory stick. File management features include folder hierarchy and file naming capabilities.

* User Interface is now available in English and Japanese.

FOCIS PRO Fiber Optic Connector Inspection System

U.S. Patents Pending

Specifications ^a

SYSTEM PERFORMANCE	
Manual Detection Capability	0.5 µm
System Optical Resolution	1.0 µm
Field of View	400 µm x 350 µm
Analysis Resolution	1.3 µm
Operating Temperature	0 to +50°C
Storage Temperature	-10 to +70°C
Relative Humidity	0 to 95 % RH (non-condensing)
DFD1	
Display Type	TFT LCD
Display Size	127 mm (5 in), 9:16 aspect ratio
Display Resolution	WQVGA, 480 x 272 pixels
Unit Size without boot (L x W x H)	144 x 88 x 20 mm (5.7 x 3.5 x 0.8 in)
Weight	220 g (7.7 oz)
Power	Li-Ion battery or AC power adapter, 100 – 240 VAC input
Battery Life	120 minutes
Battery Recharge Time ^b	5.5 hours
DFS1 DIGITAL FIBERSCOPE	
Focus Range	2 mm travel
Probe Size (without tip)	35 x 175 mm (1.4 x 6.9 in)
Weight	200 g (7.1 oz)
Light Source	Blue LED
Power Source	USB host port

Notes:

- a. All specifications valid at 23°C ±2°C (73.4°F ±3.6°F) unless otherwise specified.
- b. Typical, from fully discharged to fully charged state, unit may be operating.

Ordering Information

MODEL AND DESCRIPTION	AFL NO.
FOCIS AND FOCIS PRO KITS WITHOUT ADAPTER TIPS AND CLEANERS	
FOCIS PRO kit. Includes DFD1 Touchscreen Tablet, SimpleView PRO software, DFS1 Digital FiberScope, AC adapter, reference guides, hard carry case.	FOCIS-00-P4XN
FOCIS PRO Upgrade for DFS1 Owners. Includes DFD1 Touchscreen Tablet, SimpleView PRO software, AC adapter, reference guides, hard carry case.	FOCIS-00-P4NN
FOCIS PRO Upgrade kit for FOCIS Owners. Includes AFL SimpleView PRO software, reference guide.	FOCIS-00-P0XX
FOCIS AND FOCIS PRO KITS WITH ADAPTER TIPS AND CLEANERS	
FOCIS PRO UPC kit. Includes DFD1 Touchscreen Tablet, SimpleView PRO software, DFS1 Digital FiberScope, adapter tips (1.25 & 2.5 mm, SC/FC, LC), adapter tip box, One-Click Mini-100 SC/ST/FC, One-Click Mini-100 LC/MU, AC adapter, reference guides, hard carry case.	FOCIS-00-P4XU
FOCIS PRO APC kit. Includes DFD1 Touchscreen Tablet, SimpleView PRO software, DFS1 Digital FiberScope, adapter tips (2.5 mm, SC/APC, FC/APC), adapter tip box, One-Click Mini-100 SC/ST/FC, AC adapter, reference guides, hard carry case.	FOCIS-00-P4XA
FOCIS PRO Data Center kit. Includes DFD1 Touchscreen Tablet, SimpleView PRO software, DFS1 Digital FiberScope, adapter tips (MTP/PC, MTP/APC, 1.25 mm, LC/PC), One-Click MPO, One-Click Mini-100 LC/MU, AC adapter, reference guides, hard carry case.	FOCIS-00-P4XM
FOCIS PRO TroubFinder kit with OPM and VFL. Includes DFD1 Touchscreen Tablet, SimpleView PRO software, DFS1 Digital FiberScope, OPM5-4D power meter, HiLite visible fiber identifier, APC & UPC adapter tips, One-Click Mini-100 SC/ST/FC, One-Click Mini-100 LC/MU, AC adapter, reference guides, hard carry case.	FOCIS-00-PTFK



International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts

FOCIS Fiber Optic Connector Inspection System

U.S. Patents Pending



Features

- 0.5 μm detection capability
- 1.0 μm optical resolution
- 400 μm x 350 μm field of view
- Paired fiber images for comparing before/after, input/output, etc.
- Integrated focus and snapshot controls
- Capture, save, review and share images
- 1000 image files storage capacity

Applications

- Inspect-Clean-Inspect-Document workflow
- PC/UPC, APC and MPO/MTP connectors
- Document "as-built" or "as found" condition of patch cords and connectors

The AFL family of FOCIS integrated fiber inspection solutions provides network personnel with the capability to document fiber connector cleanliness. FOCIS combines a palm-sized DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope and AFL SimpleView Plus inspection software to provide the inspection and analysis power of current laptop and probe solutions and the ergonomics, ease of use, ruggedness and ownership costs of basic "live only" viewers. FOCIS solutions are future-proof because their optical resolution and detection specifications exceed current international standards and their software-based inspection and analysis applications can be upgraded as market requirements evolve.

The DFD1 Touchscreen Tablet is a purpose-built, hand-held Windows® computer equipped with AFL SimpleView Plus inspection software. Its bright, crisp display provides detailed images and its Zoom/Pan feature allow users to identify the smallest particles, scratches and imperfections. Its portrait orientation makes it easy to hold and operate with just one hand. Unique to FOCIS is a patent-pending feature, which simplifies before/after, jumper/bulkhead, input/output and other common fiber cleanliness comparisons. Additional features include image capture and store/recall. Up to 1000 fiber images may be stored in on-board memory and images may be transferred via any off-the-shelf USB memory stick or SD flash card. The DFD1 incorporates a proven shock-absorbing rubber boot that doubles as a tilt stand and hanger.

The DFS1 Digital FiberScope is a high resolution video inspection probe. It is equipped with a focusing knob and an image capture button. An extensive assortment of DFS1 adapter tips allow it to be used with all types of fiber connector ferrules and bulkhead connectors. Bulkhead tips are available in multiple lengths as well as straight and 60° angle. Connector adapters are available PC/UPC, APC polished ferrule in 1.25 mm, 2.5 mm and MTP/MPO connectors.

AFL FOCIS solutions are packaged in a protective hard carry case that keeps all vital inspection and cleaning tools close at hand and ready to go to work.

* User Interface is now available in English and Japanese.

FOCIS Fiber Optic Connector Inspection System

U.S. Patents Pending



Available Product Configurations

FOCIS inspection systems are available in 5 different configurations to provide fiber installers, network activation crews and maintenance personnel with the essential tools needed to clean, inspect and document proper fiber end-face cleanliness. These kits combine inspection and cleaning products and are available in a standard hard carry case. All kits include a FOCIS DFD1 Touchscreen Tablet with AC adapter, AFL SimpleView Plus application software and a quick reference guide.

FOCIS PC/UPC Inspection and Cleaning Kit

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, PC/UPC probe tip adapters, One-Click Mini cleaners for SC/FC/ST and LC/MU connectors in a hard carry case.

FOCIS APC Inspection and Cleaning Kit

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, APC and PC/UPC probe tip adapters and One-click Mini cleaners for SC/FC/ST connectors in a hard carry case.

FOCIS MTP/MPO Inspection and Cleaning Kit

This kit includes a DFD1 Touchscreen Tablet, a DFS1 Digital FiberScope, APC and PC/UPC MTP/MPO probe tip adapters and MPO/MTP® cleaner in a hard carry case.

FOCIS Inspection Kit (No Tips or Cleaners)

This kit includes a DFD1 Touchscreen Tablet and a DFS1 Digital FiberScope in a hard carry case.

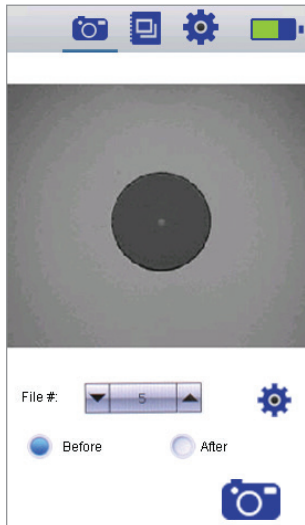
FOCIS Upgrade Kit for DFS1 Owners

This kit is designed to allow an existing DFS1 Digital FiberScope owner to upgrade to the FOCIS system. This kit includes only a DFD1 Touchscreen Tablet and is available in a hard carry case.

FOCIS Fiber Optic Connector Inspection System *

U.S. Patents Pending

Powerful Inspection and Image Management Features



Live Image Mode

Live Image Mode

The FOCIS system includes a Live Image viewing mode that works just like any legacy fiber inspection scope. Images transmitted by the DFS1 FiberScope are presented on the hand-held DFD1 Touchscreen Tablet. The system provides a high resolution display with a field of view of approximately 350 x 400 μm .

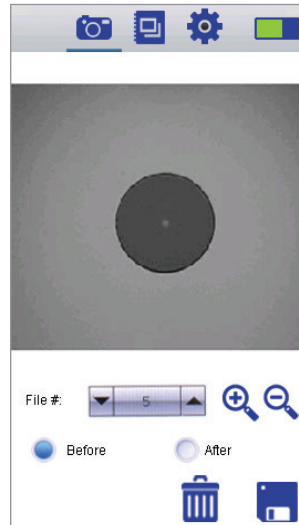
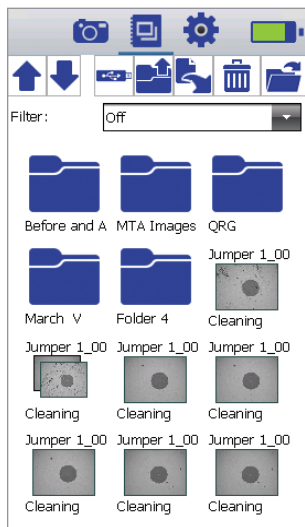


Image Capture Mode

Capture Mode with Zoom and Pan

FOCIS enables users to capture live images for the purpose of subsequent inspection and for documenting fiber end-face conditions. Once a snapshot has been captured, the user has the option of Zooming and Panning the image, deleting the image or saving it to a folder. The FOCIS system can store more than 1000 fiber images in memory.



File Manager

File Manager with Image Browser

FOCIS enables users to store fiber images in internal memory and to transfer images to an external memory stick. File management features include folder hierarchy and file naming capabilities.

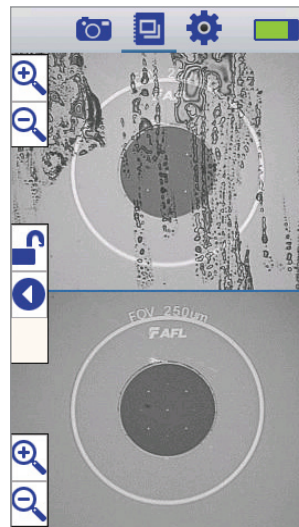


Image Review - Pair Image Mode

Review Mode with Image Pair Option

FOCIS features the unique ability to pair images as before/after, input/output, cleaning, mating other common fiber cleanliness comparisons. Easy-to-use Zoom and Pan touchscreen controls provide users with the capability to closely inspect any portion of the fiber image.

* User Interface is now available in English and Japanese.

FOCIS Fiber Optic Connector Inspection System

U.S. Patents Pending

Specifications ^a

SYSTEM PERFORMANCE	
Detection Capability	0.5 µm
Optical Resolution	1.0 µm
Field of View	400 µm x 350 µm
Battery Life ^b	120 minutes
Battery Recharge Time ^c	5.5 hours
Operating Temperature	0 to +50°C
Storage Temperature	-10 to +70°C
Relative Humidity	0 to 95 % RH (non-condensing)
DFD1	
Display Type	TFT LCD
Display Size	127 mm (5 in), 9:16 aspect ratio
Display Resolution	WQVGA, 480 x 272 pixels
Unit Size without boot (L x W x H)	144 x 88 x 20 mm (5.7 x 3.5 x 0.8 in)
Weight	220 g (7.7 oz)
Power	Li-Ion battery or AC power adapter, 100 – 240 VAC input
DFS1 DIGITAL FIBERSCOPE	
Focus Range	2 mm travel
Probe Size (without tip)	35 x 175 mm (1.4 x 6.9 in)
Weight	200 g (7.1 oz)
Light Source	Blue LED
Power Source	USB port

Notes:

- a. All specifications valid at 23°C ±2°C (73.4°F ±3.6°F) unless otherwise specified.
- b. Typical with new battery.
- c. Typical, from fully discharged to fully charged state, unit may be operating.

Ordering Information

MODEL AND DESCRIPTION	AFL NO.
FOCIS KITS WITHOUT ADAPTER TIPS AND CLEANERS	
FOCIS kit. Includes DFD1 Touchscreen Tablet, SimpleView Plus software, DFS1 Digital FiberScope, AC adapter, reference guides, hard carry case.	FOCIS-00-04XN
FOCIS Upgrade kit for DFS1 Owners. Includes DFD1 Touchscreen Tablet, SimpleView Plus software, AC adapter, reference guides, hard carry case.	FOCIS-00-04NN
FOCIS KITS WITH ADAPTER TIPS AND CLEANERS	
FOCIS UPC kit. Includes DFD1 Touchscreen Tablet, SimpleView Plus software, DFS1 Digital FiberScope, adapter tips (1.25 & 2.5 mm Universal, SC/FC, LC), adapter tip box, One-Click Mini-100 SC/ST/FC, One-Click Mini-100 LC/MU, AC adapter, reference guides, hard carry case.	FOCIS-00-04XU
FOCIS APC kit. Includes DFD1 Touchscreen Tablet, SimpleView Plus software, DFS1 FiberScope, adapter tips (2.5 mm Universal, SC/APC, FC/APC), adapter tip box, One-Click Mini-100 SC/ST/FC, AC adapter, reference guides, hard carry case.	FOCIS-00-04XA
FOCIS MPO kit. Includes DFD1 Touchscreen Tablet, SimpleView Plus software, DFS1 Digital FiberScope, MTP/PC and MTP/APC adapter tips, One-Click Cleaner MPO, AC adapter, reference guides, hard carry case.	FOCIS-00-04XM



International Sales and Service Contact Information

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FOCIS WiFi Fiber Optic Connector Inspection System



Features

- Automatic analysis of fiber connector integrity ^a
- IEC 61300-3-35, AT&T TP-76461 and user-defined pass/fail criteria ^a
- Full pass/fail analysis in less than 1 second
- Comprehensive reporting, saving and sharing capabilities via mobile device email, text and web browser
- Free Smartphone and Tablet applications
- Compatible with iPhone and iPad (iOS7)
- Compatible with Android™ 2.3.3 and up

Applications

- Enterprise and Campus Networks
- Data Center patch panels, trunks, patch cords and equipment terminations
- Long-haul, Metro Core and Access Links
- Broadband and CATV Networks
- Access network cabinets and drops

The FOCIS WiFi system combines AFL’s powerful fiber connector inspection and analysis with the familiar ease of a smartphone or tablet. FOCIS WiFi works the way you do – connected to your phone or tablet. FOCIS WiFi enables mobile workers to complete remote fiber optic connector inspection tasks while remaining connected to coworkers and managers.

Three different FOCIS WiFi options are available.

- FOCIS WiFi VIEW – enables users to view live images of a fiber end-face on a smartphone or tablet to check for cleanliness and/or damage.
- FOCIS WiFi PLUS – view, save, compare and share saved end-face images via email, text or mobile cloud applications.
- FOCIS WiFi PRO – automatically analyzes connector integrity according to IEC 61300-3-35, AT&T TP-76461, or user defined standards and save, recall and share results via email, text or mobile cloud applications.

FOCIS WiFi can easily be upgraded from VIEW to PLUS to PRO as your inspection needs change.

The FOCIS WiFi system consists of the proven DFS1 Digital FiberScope and a Portable Application Link WiFi unit. It also includes FOCIS MOBILE, a mobile app available for iPhone and iPad as well as Android mobile devices.

FOCIS WiFi kits include a soft carry case that contains the DFS1 Digital FiberScope, the PAL, an AC adapter/charger, a user guide and a handy holster/belt clip that keeps everything organized and available.

Notes:

a. FOCIS WiFi PRO kits only.



FOCIS WiFi Fiber Optic Connector Inspection System

Specifications ^a

DFS1 Digital FiberScope

OPTICAL PERFORMANCE	
Nominal Magnification	400 x
Field of View	400 x 300 µm
Focus Range	2 mm travel
Optical Resolution	1.0 µm or better
VIDEO PERFORMANCE	
Video Image Resolution	320 x 240 pixels
PHYSICAL CHARACTERISTICS	
Dimensions	35 x 175 mm (without adapter tip)
Weight	200 g
Illumination Source	Blue LED, coaxially aligned
Electrical Connector	USB 2.0 (male)

FOCIS Mobile Application Software

PERFORMANCE	
Displayed Image Resolution	320 x 240 pixels
Video Update Rate	5 frames/second
Connector Inspection Time	500 msec typical
Automatic Detection Capability ^b	1.3 µm particles and scratches
OS Compatibility	Android 2.3 and newer, iOS7 and newer

Notes:

- All specifications valid at 23°C ±2°C (73.4°F ±3.6°F) unless otherwise specified.
- FOCIS WiFi PRO only.
- When used with Nexus 7 tablet.

Ordering Information

FOCIS WiFi Kits in Soft Case without Adapter Tips and Cleaners

MODEL AND DESCRIPTION	AFL NO.
FOCIS WiFi VIEW kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, AC adapter, FOCIS WiFi holster, adapter tip box, soft carry case.	FMVU-00-04XN
FOCIS WiFi PLUS kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, AC adapter, FOCIS WiFi holster, adapter tip box, soft carry case.	FMPL-00-04XN
FOCIS WiFi PRO kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PRO firmware, AC adapter, FOCIS WiFi holster, adapter tip box, soft carry case.	FMPR-00-04XN
FOCIS WiFi VIEW Upgrade kit for DFS1 owners. Includes Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, AC adapter, FOCIS WiFi holster, soft carry case.	FMVU-01-04XN
FOCIS WiFi PLUS Upgrade kit for DFS1 owners. Includes Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, AC adapter, FOCIS WiFi holster, soft carry case.	FMPL-01-04XN
FOCIS WiFi PRO Upgrade kit for DFS1 owners. Includes Portable Application Link (PAL) with FOCIS WiFi PRO firmware, AC adapter, FOCIS WiFi holster, soft carry case.	FMPR-01-04XN

Portable Application Link

WiFi CHARACTERISTICS	
Protocol	IEEE 802.11 b/g/n
Frequency/Channel	2.4 -2.4835 GHz
SSID	Broadcast On: AFL_XXXXXXXX (contains 9 digit serial number)
Range	2.4 meters minimum
BATTERY	
Type	Internal Li-ion, 5200 mAh rechargeable
Capacity	9.5 hours of continuous operation with DFS1
AC Adapter/Charger	+5VDC @ 1A USB output, 100 - 240VAC 50/60 Hz, 7 hours charging time maximum
PHYSICAL CHARACTERISTICS	
Dimensions	93.8 x 43.1 x 26.0 mm
Weight	129 g
Video Probe connector	USB 2.0 (female)
Network Connector(OEMuseonly)	RG-45

Environmental Performance

Operating Temperature	-10°C to 55°C
Storage Temperature	-20°C to 60°C
Operating Humidity	10% to 80%

FOCIS WiFi Fiber Optic Connector Inspection System

Ordering Information

FOCIS WiFi Kits in a Hard Carry Case without Adapter Tips and Cleaners

DESCRIPTION	AFL NO.
FOCIS WiFi VIEW kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMVU-00-04XN-HC
FOCIS WiFi PLUS kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMPL-00-04XN-HC
FOCIS WiFi PRO kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PRO firmware, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMPR-00-04XN-HC
FOCIS WiFi VIEW Upgrade kit for DFS1 owners. Includes Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, AC adapter, FOCIS WiFi holster, hard carry case.	FMVU-01-04XN-HC
FOCIS WiFi PLUS Upgrade kit for DFS1 owners. Includes Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, AC adapter, FOCIS WiFi holster, hard carry case.	FMPL-01-04XN-HC
FOCIS WiFi PRO Upgrade kit for DFS1 owners. Includes Portable Application Link (PAL) with FOCIS WiFi PRO firmware, AC adapter, FOCIS WiFi holster, hard carry case.	FMPR-01-04XN-HC

FOCIS WiFi Kits with Adapter Tips and Cleaners

MODEL AND DESCRIPTION	AFL NO.
FOCIS WiFi VIEW KITS	
FOCIS WiFi VIEW UPC kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, adapter tips (1.25 & 2.5 mm, SC/FC, LC), adapter tip box, One-Click Mini-100 SC/ST/FC, One-Click Mini-100 LC/MU, AC adapter, FOCIS WiFi holster, hard carry case.	FMVU-00-04XU
FOCIS WiFi VIEW APC kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, adapter tips (2.5 mm, SC/APC, FC/APC), adapter tip box, One-Click Mini-100 SC/ST/FC, AC adapter, FOCIS WiFi holster, hard carry case.	FMVU-00-04XA
FOCIS WiFi VIEW MPO kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi VIEW firmware, MTP/PC and MTP/APC adapter tips, One-Click Cleaner MPO, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMVU-00-04XM
FOCIS WiFi PLUS KITS	
FOCIS WiFi PLUS UPC kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, adapter tips (1.25 & 2.5 mm, SC/FC, LC), adapter tip box, One-Click Mini-100 SC/ST/FC, One-Click Mini-100 LC/MU, AC adapter, FOCIS WiFi holster, hard carry case.	FMPL-00-04XU
FOCIS WiFi PLUS APC kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, adapter tips (2.5 mm, SC/APC, FC/APC), adapter tip box, One-Click Mini-100 SC/ST/FC, AC adapter, FOCIS WiFi holster, hard carry case.	FMPL-00-04XA
FOCIS WiFi PLUS MPO kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PLUS firmware, MTP/PC and MTP/APC adapter tips, One-Click Cleaner MPO, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMPL-00-04XM
FOCIS WiFi PRO KITS	
FOCIS WiFi PRO UPC kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PRO firmware, adapter tips (1.25 & 2.5 mm, SC/FC, LC), adapter tip box, One-Click Mini-100 SC/ST/FC, One-Click Mini-100 LC/MU, AC adapter, FOCIS WiFi holster, hard carry case.	FMPR-00-04XU
FOCIS WiFi PRO APC kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PRO firmware, adapter tips (2.5 mm, SC/APC, FC/APC), adapter tip box, One-Click Mini-100 SC/ST/FC, AC adapter, FOCIS WiFi holster, hard carry case.	FMPR-00-04XA
FOCIS WiFi PRO MPO kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PRO firmware, MTP/PC and MTP/APC adapter tips, One-Click Cleaner MPO, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMPR-00-04XM
FOCIS WiFi PRO Data Center kit. Includes DFS1 Digital FiberScope, Portable Application Link (PAL) with FOCIS WiFi PRO firmware, adapter tips (MTP/PC, MTP/APC, 1.25 mm, LC/PC, One-Click MPO, One-Click Mini-100 LC/MU, AC adapter, FOCIS WiFi holster, hard carry case, adapter tip box.	FMPR-00-04XD



International Sales and Service Contact Information

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Please contact your AFL Sales Representative for information about our other products or services.

**FIBER OPTIC CABLE
(OPGW, ADSS, Loose Tube)**



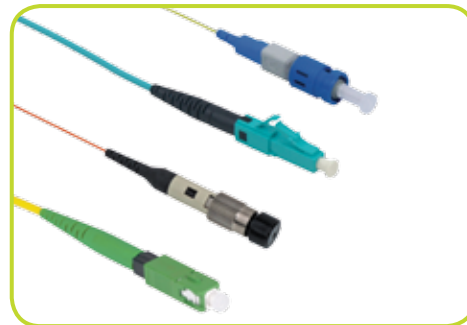
**TEST AND INSPECTION
EQUIPMENT**



**FUSION SPLICING
SYSTEMS AND ACCESSORIES**



**FIELD-INSTALLABLE
CONNECTORS**



Along with a broad range of products, we also offer professional training through the Light Brigade®. Over 50,000 people have completed a Light Brigade training course making us the leading fiber optic training provider in the world.



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