

FOCCUS™



CONNECTING AT THE SPEED OF LIGHT™

A high quality fiber optic installation starts with the connectors. Clean connections give you faster transmission rates, higher bandwidth and maintenance-free operation.

FOCCUS brand products from Chemtronics give you the tools you need to quickly clean connectors and ports. Patented technology and proprietary Combination Cleaning™ process give you clean connections the first time, every time.

Advantages of Combination Cleaning™ . . .

- Fast, reliable & repeatable - save time and money!
- Eliminate all debris and contamination
- Reduce reflectance
- Increase transmission rates
- Avoid expensive truck-rolls from bad connections
- Clean all connector types
- Clean jumpers instead of replacing
- Exceeds IEC 61300-3-35, IEC TR62627-01, and meets Telcordia GR-2923-CORE and SAE Aerospace AIR6031

Clean First Time . . . Every Time!



View the Combination Cleaning™ Video and see the difference for yourself!

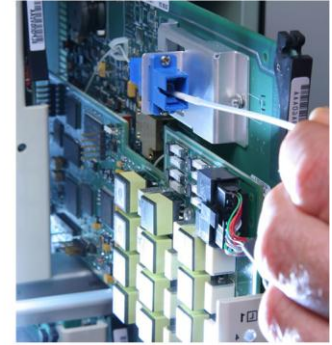
 **Chemtronics®**
Nothing Performs Like Chemtronics

FIBER OPTIC CLEANING GUIDE



PRECISION CLEANING PRODUCTS

Properly cleaned fiber optic connectors and PCB components provide high reliability and lower warranty claims.



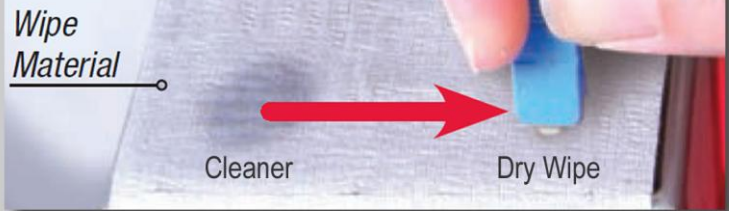
PRECISION CLEANING

The Combination Cleaning Process

FOCCUS products are designed for optimal cleaning of connectors using Combination Cleaning™ process. The end face is passed through a lightly moistened spot on the lint-free wiper, then drawn into the dry area. The large cleaning platform assures the proper angle for UPC and APC connectors.

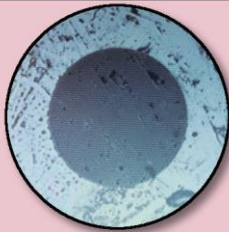
Combination Cleaning is industry proven, exceeding IEC 61300-3-35, IEC TR62627-01, and meeting Telcordia GR-2923-CORE and SAE Aerospace AIR6031.

Combination Cleaning Process

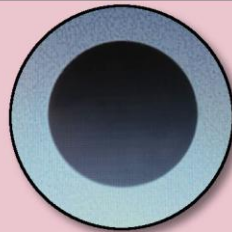


COMBINATION CLEANING_GRAY

FOCCUS Combination Cleaning - Clean first time... Every time!



Contaminated connector

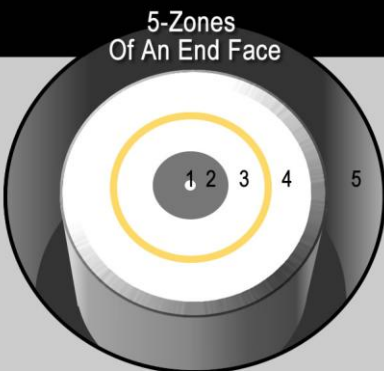


Connector after FOCCUS™ Combination Cleaning™

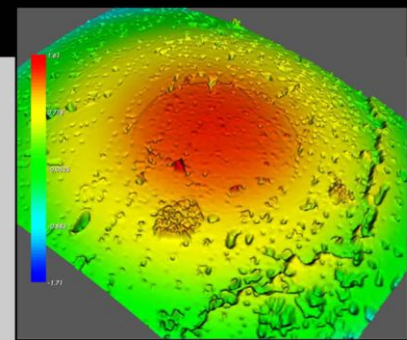
Dry wiping materials can smear oils, not fully remove dry particulates, and can create a static field that attracts and holds onto additional debris. Wet cleaning can oversaturate connectors, drawing up contamination from around the ferrule as specified in IEC 61300-3-35. Combination Cleaning gives you reliable cleaning of the widest range of debris and contamination over the complete end face the first time... every time! Without this technique, additional cleaning passes, jumper replacement or redo of the deployment may be required.

1ST TIME CLEANING_PINK

Importance of 5-Zone Cleaning



FOCCUS Combination Cleaning removes contamination from all five zones of an end face. Although contamination on zones 1 and 2 most directly impact signal integrity, contamination in zones 3 and 4 can migrate to inner zones, cause damage to the end face, or cause connector mating problems because of depth of the particles. Debris in zone 5 often migrate to the end face, especially if over saturated with cleaner.



Interferometer image of 3D debris and contamination (courtesy of FIBO)

5-ZONE_GRAY



FIBER OPTIC CLEANING GUIDE

FOCCUS End Face Cleaning Kit



All the cleaning supplies necessary for a successful installation of 2.5mm fiber optic connections in one convenient kit. Electro-Wash® PX Precision Fiber Optic Cleaner and QbE® Cleaning System are included for performing Combination Cleaning.

Contents: (1) QbE, (1) Electro-Wash PX aerosol cleaner, (50) 2.5mm swabs, (50) V-Groove and Ferrule Cleaning Swabs, (15) Fusion Splice Mirror Cleaning Swabs, (100) 10cm x 10cm wipes

Part #CFK1000E

CFK1000E

FOCCUS Fusion Splice Prep and Equipment Maintenance Kit



Highly effective on single and mass splices. Essential for proper equipment maintenance.

Contents: (1) 5oz. Electro-Wash PX, (75) FsA Presaturated Wipes, (100) FsW Dry Wipes, (50) V-Groove and Ferrule Cleaning swabs, (30) Fusion Splice Mirror and Lens Cleaning swabs, (5) swab extenders, (100) 10cm x 10cm wipes, (10) 20cm x 25cm pre-sat wipes.

Part #FSK1000E

FSK1000E

FOCCUS Transportable OSP End Face Cleaning Kit



Installation and maintenance kit for telco OSP, data center, cellular backhaul, CATV and enterprise. Designed for 1st time cleaning of 600 end faces.

Contents: (1) QbE-2, (2) Electro-Wash® MX pens, (50) 2.5mm swabs, (5) swab extenders, (100) 10cm x 10cm wipes, (5) 20cm x 25cm pre-sat wipes.

Part #CFK1013E

CFK1013E

FOCCUS Transportable FTTx All-Connection Cleaning Kit



Cleaning kit for SC/LC (UPC and APC), MT-types (pinned and non-pinned), Corning® OptiFit® and H+S e2000. Superior for FTTh, FTTt and FTTn. Designed for 1st time cleaning of 600 end faces.

Contents: (1) pQbE, (2) Electro-Wash® MX pens, (100) 2.5mm swabs, (15) 1.25mm swabs, (25) 2.3mm MTP connector swabs, (5) swab extenders, (100) 10cm x 10cm wipes, (5) 20cm x 25cm pre-sat wipes.

Part #CFK1202E

CFK1202E



FIBER OPTIC CLEANING GUIDE

SqR™ Compact Fiber Optic Cleaning Platform



The compact, precision wiping platform for cleaning fiber optic end faces. Developed specifically for tight storage and transportation with test equipment and network components. Large flat wiping surface provides up to 80 end face cleanings.

Part #SQR 10 bound wipes/bx, 4" x 4" (7.6cm x 7.6cm)

SQR

QbE Fiber Optic Cleaning Platform



The precision wipe platform for cleaning fiber optic end faces. Large, flat continuous FiberSafe™ cleaning platen provides the right amount of give to wrap around the end face for 1st time cleaning.

Applications:

- Cleans SC/LC UPC and APC connectors

Part #QBE 200 perforated wipes/bx, 2.75" x 3" (7.0cm x 7.6cm)

QBE

QbE-2 Fiber Optic Cleaning Platform



The precision wipe platform for cleaning fiber optic end faces. Large, flat continuous FiberSafe™ cleaning platen provides the right amount of give to wrap around the end face for 1st time cleaning.

Applications:

- Cleans SC/LC UPC and APC connectors

Part #QBE-2 200 perforated wipes/bx, 1.375" x 3" (3.6cm x 7.6cm)

QBE2

p-QbE® Pocket Fiber Optic Cleaning Platform



The pocket-sized, precision wipe platform for cleaning fiber optic end faces. Developed for use with all connector types, SC, ST, FC, MT-type, APC and recessed connectors.

Raised, ridged Fibersafe™ cleaning platen mounted atop the flat cleaning platen conforms to recessed connector end faces, and provides simultaneous cleaning to the ferrule and chamfer of non-recessed connectors.

Part #PQBE 200 perforated wipes/bx, 1.375" x 3" (3.6cm x 7.6cm)

PQBE



FIBER OPTIC CLEANING GUIDE

FOCCUS Compact Cleaning Kit



The fiber optic cleaning kit designed for insertion into test equipment or placed on site for convenience. Up to 80 cleanings per kit.

Contents: (1) SqR Cleaning System, (1) Electro-Wash® MX Fiber Optic Cleaner Pen, (1) reclosable package

Part #CCK-1

CCK1

Electro-Wash® MX Cleaner Degreaser Pen



High precision cleaner in a transportable pen that applies solvent only where you need it. Ideal for Combination Cleaning process used to clean fiber optic connectors.

Applications: Fiber optics connectors & cable splices

Part #FW2150 *9g pen, blister carded*

FW2150

Fiber-Wash™ Fiber Optic Cleaning Pen



The convenient pen dispenser with the extra strength, non-flammable, transportable cleaning solvent. Effectively and efficiently removes handling soils, dust, oils, greases and contamination found in the fiber optic environment; especially the FTTx environment.

Applications: Fiber optics connectors & cable splices

Part #FW2190 *5g pen uncarded*

FW2190

Electro-Wash® PX Fiber Optic Cleaner



Extra-strength universal cleaner and degreaser safe for use on plastics.

Applications:

- Cleans fiber optic connectors
- Fusion Splice preparation
- Buffer gel removal
- Cleans handling soils from circuitry before reassembly

Part #ES810E *5oz / 141g trigger aerosol*

ES810



FIBER OPTIC CLEANING GUIDE



FSA Fusion Splice Presaturated Wipe

Identical to the FsW with its unique perforated wipes has been designed to capture coating and cladding residues from the cleaving step. The FSA wipes already come presaturated while the FsW is a dry wipe that can be saturated on-site with a preferred cleaning solvent.

Applications:

- Fusion splice prep
- General precision equipment and workspace clean-up
- Final wiping cable

Part #FSA 75 wipes per mini-tub, 7.6cm x 7.6cm

FSA



Chempad™ Presaturated Wipe

General purpose, presaturated lint-free cleaning wipe. Contains ultra pure blend of 91% IPA/9% deionized water. Quickly removes dust, oils and contaminants.

Applications:

- Ideal for cleaning fiber optic connectors
- Cleans dirt, oils, and particles

Part #CP400 50 single pack presaturated pads

CP400



FSW™ Fusion Splice Wipe

This unique perforated wiper is designed to capture coating and cladding residues from the cleaving step. Use dry or entire tub can be saturated on-site with the preferred cleaning solvent. Wipes are non-scratching, non-linting, soft and absorbent.

Applications:

- Fusion splice prep
- General precision equipment and workspace clean-up
- Final wiping cable

Part #FSW 100 wipes per mini-tub, 7.6cm x 7.6cm

FSW



Optic Prep™ Presaturated Wipe

The highest quality premoistened lens-grade tissue for cleaning optical surfaces. Quickly removes dust, oils and contaminants. Compatible with most plastics, glass and metals. Mild cleaning solution, nonabrasive wipe.

Applications: Safely cleans and polishes optical surfaces, lenses, photographic equipment, and instruments.

Part #CP410 50 single pack presaturated pads

CP410



FIBER OPTIC CLEANING GUIDE

Electro-Wash® MX Presaturated Wipes



Extra-strength, plastic safe universal cleaner with moderate evaporation time.

Applications:

- Removes soils from fiber optic connectors and assemblies
- Cleaning semiconductive cores of high voltage cables
- Hard-line coax cable and metal and fiber optic cable splices

Part #CP421 25 - 8" (20.3 cm) x 10" (25.4 cm) wet wipes (9ml ea)

CP421

Coventry™ Econowipes™



Made from hydro-entangled, 45/55 cellulose/polyester blend, for optimum purity in a nonwoven wipe.

Applications:

- End face cleaning
- Fusion splice preparation
- Buffer gel removal

Part #6704F 100 wipes, 4" x 4" (10.2cm x 10.2cm)

6704F

Ultrajet® All-Way Invertable Duster



Invertable duster with the BIGGEST blast to clean anything fast.

- Nonflammable
- Highest powered cleaning strength
- Zero VOC
- Filtered to 0.2 microns
- 100% ultra-pure HFC-134a — leaves no residue
- Safe on plastics

Part #ES1620E 8 oz / 226 g aerosol

ES1620

FOCCUS High Precision Fiber Optic Swabs

FOCCUS Fiber Optic Swabs are specially designed to clean connectors, sleeves, and fusion splice mirrors and v-grooves. The swab heads are made of lint-free materials without binders and other contaminants, so you clean the 1st time... every time!



48042F
2.5mm
Foam
Swab



25183
2.5mm
Wrapped
Foam
Swab



25125F
1.25mm
Poly
Swab



CC505F
Chamois
Swab



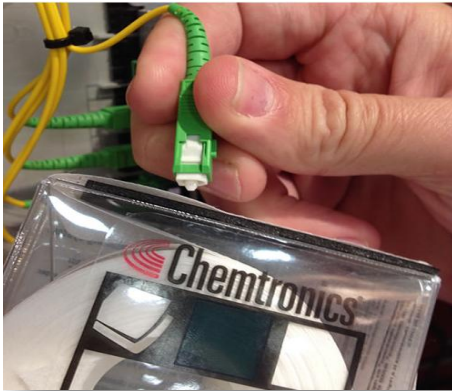
51125F
Mirror
& Lens
Swab



38542F
V-Groove
Swab

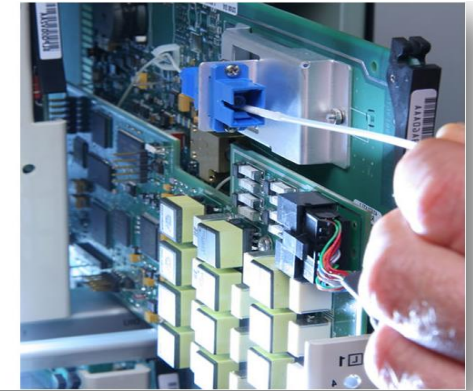
EU-SWABS





Chemtronics® & FOCUS™

PRECISION CLEANING PRODUCTS



PRODUCT TYPE	PRODUCT REF	PRODUCT DESCRIPTION	UNIT OF MEASURE
Fiber Optic Cleaning Kit	CFK1000E	Fiber Optic Cleaning Kit for Installation & Maintenance <i>Contains</i> : 1x Bag; 1x QbE; 1x ES810E; 1x 38542F; 1x 48042F; 1x 51125F; 1x 6704F	1 x kit
Fiber Optic Cleaning Kit	FSK1000E	Fusion Splice Prep and Equipment Maintenance Kit contains <i>Contains</i> : 1x Bag; 1x FSA75; 1x ES810E; 1x FSW; 1x 38542F; 2x 51125F; 10x CP421; 1x 6704F; 1x XTN	1 x kit
Fiber Optic Cleaning Kit	CFK1013E	End Face Cleaning Kit for CATV, OSP, Datacenter, Cellular Backhaul, CATV, Enterprise contains <i>Contains</i> : 1x Bag; 1x QBE2; 2x FW2150; 1x 6704F; 1x 48042F; 5x CP421; 1x XTN	1 x kit
Fiber Optic Cleaning Kit	CFK1202E	FTTx All-Connection Cleaning Kit contains <i>Contains</i> : 1x Bag; 1x pQbE; 2x FW2150; 2x 48042F; 1x 25125F; 1x CC505F; 5x CP421; 1x 6704F; 1x XTN	1 x kit
Fiber Optic Cleaning Kit	CCK-1E	Portable Fiber Optic Service or Installation Kit contains <i>Contains</i> : 1x Bag; 1x SQR; 1x FW2150	1 x kit
Cleaning Platforms	SqR	SqR™ Compact Fiber Optic End Face Cleaning Platform	1 x pad of 10 bonded wipes
Cleaning Platforms	QbE	QbE™ Fiber Optic End Face Cleaning Platform	1 x box of 200 perforated wipes
Cleaning Platforms	QbE2	QbE™2 Compact Fiber Optic End Face Cleaning Platform	1 x box of 200 perforated wipes
Cleaning Platforms	pQbE	pQbE™ Pocket QbE Fiber Optic End Face Cleaning Platform with Grooves	1 x box of 200 perforated wipes
Precision Fiber Optic Cleaners	FW2150	Electro-Wash MX Cleaning Pen 9g	1 x pen
Precision Fiber Optic Cleaners	FW2190	Fiber-Wash™ Aqueous Cleaning Pen 5g	1 x pen
Precision Fiber Optic Cleaners	ES810E	Electro-Wash® PX Cleaner/Degreaser	1 x 200ml
Fiber Optic Connector Swabs	25123X	1.25 mm Fiber Optic Polyester Sleeve & Backplane Swab	1 x bag of 100
Fiber Optic Connector Swabs	25125F	EFB-16 1.25 mm Fiber Optic Polyester Sleeve & Backplane Swab	1 x tube of 15
Fiber Optic Connector Swabs	25183	2.5 mm Precision Fiber Optic Wrapped Foam Swab	1 x bag of 100
Fiber Optic Connector Swabs	48042F	EFB-10 2.5 mm Fiber Optic End-Faces Foam Swab	1 x tube of 50
Fiber Optic Connector Swabs	CC505F	EFB-17 2.3 mm MTP Connector Chamois Swab	1 x tube of 25
Fiber Optic Device Swabs	38542F	EFB-11 V-Groove and Ferrule Cleaning Swab	1 x tube of 50
Fiber Optic Device Swabs	51125F	EFB-12 Fusion Splice Mirror Cleaning Swab	1 x tube of 15
Fiber Optic Swabs Extenders	XTN	Extenders for additional swab length, 3x 2.5cm + 2x 5cm extender	1 x tube of 5
Fusion Splice Cleaners	FSA75	Fusion Splice Presaturated Wipes 75 wipes in mini tub (7.6cmx7.6cm)	1 x tub of 75 wipes
Presaturated Wipes	CP400	Chem Pad™ Super Presaturated Heavy-Duty Wipes 91% IPA	1 x box of 50
Presaturated Wipes	CP410	Optic Prep™ Presaturated Optical Surface Wipes 65% IPA	1 x box of 50
Presaturated Wipes	CP421	Electro-Wash® MX Cleaner/Degreaser Wipes (20cm x 25cm)	1 x box of 25
Dry Wipes	6704F	Coventry Econowipes 45/55 cellulose/polyester (10cmx10cm)	1 x bag of 100 wipes
Dry Wipes	FSW	Fusion Splice Wipes 100 wipes in mini tub (7.6cmx7.6cm)	1 x tub of 100 wipes
Dusters	ES1620E	Ultrajet® All-Way Non-Flammable Duster	1 x 200ml