

# 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*

# F FOCUS™

CONNECTING AT THE SPEED OF LIGHT™

## 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.

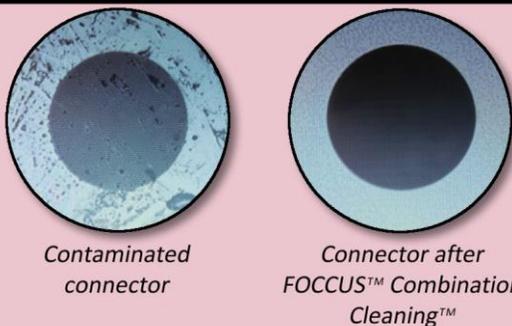
Combination Cleaning is industry proven, exceeding IEC 61300-3-35, IEC TR62627-01, and meeting Telcordia GR-2923-CORE and SAE Aerospace AIR6031.

### Combination Cleaning Process



COMBINATION CLEANING\_GRAY

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



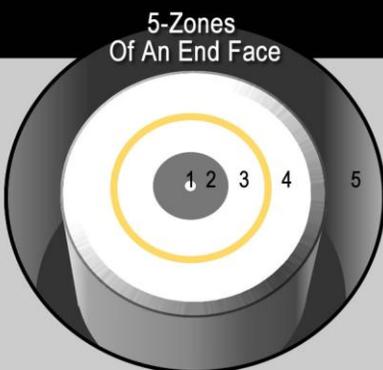
Contaminated connector

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.

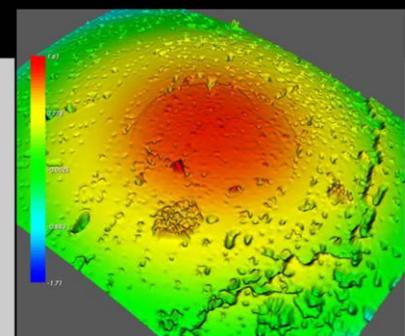
1ST TIME CLEANING\_PINK

### Importance of 5-Zone Cleaning



5-Zones Of An End Face

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.*

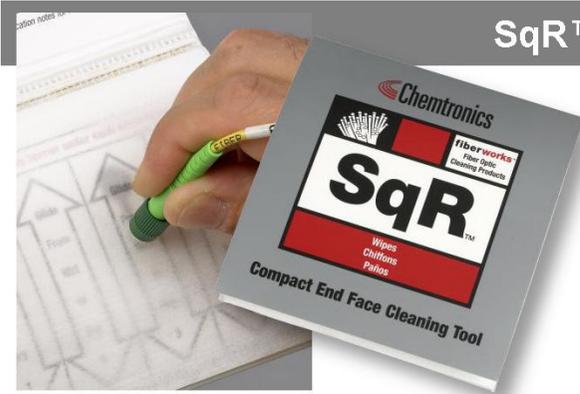
**Part #CFK1202E**

CFK1202E



## FIBER OPTIC CLEANING GUIDE

### SqR™ Compact Fiber Optic Cleaning Platform



The flat and compact precision cleaning 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 40 end face cleanings.

**Part #SQR** 10 bonded wipes/pad, 4" x 4" (10.2cm x 10.2cm)

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 1<sup>st</sup> 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 1<sup>st</sup> 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



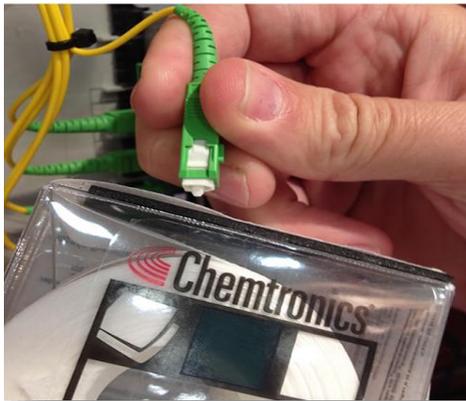
**51125F**  
Mirror  
& Lens  
Swab



**38542F**  
V-Groove  
Swab

EU-SWABS





# Chemtronics® & FOCUS™

## FIBER OPTIC CLEANING SOLUTIONS SELECTION GUIDE



PRODUCT TYPE	PRODUCT REF	PRODUCT DESCRIPTION	UNIT OF MEASURE
Fiber Optic Cleaning Kit	CFK1000E	<b>Fiber Optic Cleaning Kit for Installation &amp; Maintenance</b> <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	<b>Fusion Splice Prep and Equipment Maintenance Kit contains</b> <i>Contains</i> : 1x Bag; 1x FSA75; 1x ES810E; 1x FSW; 1x 38542F; <b>2x</b> 51125F; <b>10x</b> CP421; 1x 6704F	1 x kit
Fiber Optic Cleaning Kit	CFK1013E	<b>End Face Cleaning Kit for CATV, OSP, Datacenter, Cellular Backhaul, CATV, Enterprise contains</b> <i>Contains</i> : 1x Bag; 1x QB2; <b>2x</b> FW2150; 1x 6704F; 1x 48042F; <b>5x</b> CP421	1 x kit
Fiber Optic Cleaning Kit	CFK1202E	<b>FTTx All-Connection Cleaning Kit contains</b> <i>Contains</i> : 1x Bag; 1x pQbE; <b>2x</b> FW2150; <b>2x</b> 48042F; 1x 25125F; 1x CC505F; <b>5x</b> CP421; 1x 6704F	1 x kit
Fiber Optic Cleaning Kit	CCK-1E	<b>Portable Fiber Optic Service or Installation Kit contains</b> <i>Contains</i> : 1x Bag; 1x SQR; 1x FW2150	1 x kit
Fiber Optic Cleaning Tools	CCT-125	1.25 mm Fiber Optic End Face Cleaning Tool for up to 800 cleans	1 x tool
Fiber Optic Cleaning Tools	CCT-250	2.5 mm Fiber Optic End Face Cleaning Tool for up to 800 cleans	1 x tool
Fiber Optic Cleaning Tools	CCT-MPO	MPO Fiber Optic End Face Cleaning Tool for up to 800 cleans	1 x tool
End Face Cleaning Platforms	SqR	SqR™ Flat Fiber Optic End Face Cleaning Platform (10.2cm x 10.2cm wipes)	1 x pad of 10 bonded wipes
End Face Cleaning Platforms	QbE	QbE™ Fiber Optic End Face Cleaning Platform (7cm x 7.6cm wipes)	1 x box of 200 perforated wipes
End Face Cleaning Platforms	QbE2	QbE™2 Pocket Sized Fiber Optic End Face Cleaning Platform (3.6cm x 7.6cm wipes)	1 x box of 200 perforated wipes
End Face Cleaning Platforms	pQbE	pQbE™ Pocket Sized Fiber Optic End Face Cleaning Platform with Grooves fitting all connector types (3.6cm x 7.6cm wipes)	1 x box of 200 perforated wipes
Precision Fiber Optic Cleaners	FW2150	Electro-Wash MX Solvent Cleaning Pen 9g	1 x pen
Precision Fiber Optic Cleaners	FW2190	Fiber-Wash™ Aqueous Non-Flammable Cleaning Pen 5g	1 x pen
Precision Fiber Optic Cleaners	ES810E	Electro-Wash® PX Solvent Cleaner/Degreaser	1 x 200ml
Fiber Optic Connector Swabs	25123X	1.25 mm Fiber Optic Polyester Swab for Sleeve & Backplane (same as 25125F)	1 x bag of 100
Fiber Optic Connector Swabs	25125F	1.25 mm Fiber Optic Polyester Swab for Sleeve & Backplane (same as 25123X)	1 x tube of 15
Fiber Optic Connector Swabs	25183	2.5 mm Fiber Optic Wrapped Foam Swab for Sleeve & Backplane	1 x bag of 100
Fiber Optic Connector Swabs	48042F	2.5 mm Fiber Optic Foam Swab for Sleeve & Backplane	1 x tube of 50
Fiber Optic Connector Swabs	CC505F	2.3 mm Fiber Optic Chamois Swab for MTP Connector	1 x tube of 25
Fusion Splice Device & Connector Swabs	38542F	3 mm (1mm thick) Fusion Splice V-Groove and Ferrule Cleaning Swab	1 x tube of 50
Fusion Splice Device Swabs	51125F	5.8 mm Fusion Splice Mirror Cleaning Swab - "Pillow" Tip Head	1 x tube of 15
Fusion Splice Wipes	FSW	Fusion Splice Wipes Dry 100 wipes in mini tub (7.6cmx7.6cm)	1 x tub of 100 wipes
Fusion Splice Wipes	FSA75	Fusion Splice Wipes Presaturated 75 wipes in mini tub (7.6cmx7.6cm)	1 x tub of 75 wipes
Presaturated Wipes IPA	CP400	Chem Pad™ Super Presaturated Heavy-Duty Wipes 91% IPA (7.6cm x 10.2cm)	1 x box of 50
Presaturated Wipes IPA	CP410	Optic Prep™ Presaturated Optical Surface Wipes 65% IPA (10.2cm x 21cm)	1 x box of 50
Presaturated Wipes Solvent	CP421	Electro-Wash® MX Solvent Cleaner/Degreaser Wipes (20cm x 25cm)	1 x box of 25
Dry Wipes	6704F	Coventry Econowipes 45/55 polyester/cellulose (10cmx10cm)	1 x bag of 100 wipes
Dusters	ES1620E	Ultrajet® All-Way Invertible Non-Flammable Duster	1 x 200ml