Soiled to Clean in One Easy Step©

The Sciences of Precision Cleaning...
...enhance the Sciences of High-Speed High-Capacity Fiber Optic Connections©
CombinationCleaning© is more than a phrase ... it is a Science.

What does a precision cleaning solvent and *wiping* have to do with it?

Soils can vary widely, not limited to "dust" or a "fingerprint", can be "combinations" of complex contaminants.

**The Science of Cleaning:**
- A cleaning solvent wets the soil
- A cleaning solvent breaks the surface bond
- A cleaning solvent lifts the soil
  - A cleaning solvent carries soils away
- *Wiping* is the only way to completely remove the soil from the original site

*The only real difference is one of these surfaces must transmit speed and band width!*
Remove all contaminants from all Five Zones of the End Face ... not just Three

The “Horizontal Plane” of the End Face

The “Vertical Plane” of the End Face

Contaminants not only have diameter, they also have height.

Note: drawings and images are estimated measurements.

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Combination Cleaning® is more than a phrase… it is a Science.

Fiber Optic Combination Cleaning® Universal Systems™

QbE® High-Reliability Cleaning Platforms

The Original QbE®
Patented
Millions and Millions of successful 1st Time Cleaning Operations.

pQbE®
PatPend
For FTTx
Cleans all connector geometry

QbE® QS
PetPend
One Step Combination Cleaning™

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www.chemtronics.com (general) www.combinationcleaning.com (technical)
Highest Performing Precision Fiber Optic Cleaners

Electro-Wash® “PX”
The Original High Performance Fiber Optic Cleaner.

Electro-Wash® “CZ”
The Original “Cirozane” HFE-7100 Formulation

Electro-Wash® “MX”
The Original Fiber Optic Cleaning Pen

Fiber-Wash® The Original Aqueous Fiber Optic Cleaning Pen

“Best Practice” cleaning uses a ‘combination’ of high performing cleaners and a follow-up ‘wiping action’ to remove all contaminants and assure the surface is dry.

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FOCUS®

an ITW Chemtronics® Brand

Fiber Optic CombinationCleaning© Universal Systems™

Highest Performing Precision Fiber Optic Swab Tools

Accurately cleans UPC and APC:
• 1.25 mm.
• 2.0/2.5 mm.
• “MT” Types around pins and complete surfaces!

Coventry® Clean Room Swab Tools are used in critical cleaning operations such as disc drive, and medical device manufacturing. They are made from engineered-clean materials: reticulated foams, pull-truded polyester and other high performance materials.

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Soiled to Clean in One Easy Step©
The Best Process Cleans the Widest Range of Soils from the Complete End Face©

CFK Installation Kit

CFK-1010:
1-QbE® The Original Cleaning Platform
1-“PX” Precision Fiber Optic Cleaner
1- 2.5mm Reticulated Foam Precision Swab Tools with X’Tenders®
5-“MX” Single Step Presaturated Wipers for gels, lubes and tools.
1-pak 4” Non Woven Lint Free Wipers.

CFK-1013
Optional Easy-Ship Pens

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CFK Construction Kit

**CFK-1000:**
1- QbE® The Original Cleaning Platform
1- “PX” Precision Fiber Optic Cleaner
1- Tube 2.5mm Reticulated Foam Precision Swab Tools with X’Tenders®
1- Tube V-Groove Cleaning Tool
1- Tube Lens and Mirror Cleaning Tool
5- “MX” Single Step Presaturated Wipers for gels, lubes and tools.
1- 4”x4” Non Woven Lint Free Wipers.

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Soiled to Clean in One Easy Step®
The Best Process Cleans the Widest Range of Soils from the Complete End Face®

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**CFK-1003**
Optional Easy-Ship Pens
Soiled to Clean in One Easy Step
The Best Process Cleans the Widest Range of Soils from the Complete End Face

CFK-1201:
1-pQbE® The Cleaning Platform that correctly cleans all end face geometry and the ‘vertical ferrule’.
1- “PX” The Original Precision Fiber Optic Cleaner
2-Tubes 2.0/2.5mm 6” Reticulated Foam Precision Swab Tools with X’Tenders®
1-Tube 1.25 ‘pulltruded’ Swab Tools
1-5056F MTP LoopTip™ Swab Tools
10-“MX” Single-Step Presat Wipers for gels, lubes and tools.
1-Pack 4”x4” Non Woven Lint Free Wipers.

CFK 1202
Optional Easy-Ship ”MX” Pens

CFK-1203
Optional Easy-Ship FiberWash® Pens

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CFK FTTx Universal Kit

CFK-1301:
1-pQbE® The Cleaning Platform that correctly cleans all end face geometry and the ‘vertical ferrule’.
1-“PX” The Original Precision Fiber Optic Cleaner
1- 1.25mm FerruleMate® Tool
1-2.5mm FerruleMate® Tool
1- MTP “LoopTip” Swab Tools
10- “MX” Single Step Pre-sat Wipers for gels, lubes and tools.
1-6704F (100) 4”x4” Non Woven Lint Free Wipers.
Instructions

CFK 1302
Optional ”MX” Easy-Ship Pens

CFK-1303
Optional FiberWash® Easy-Ship Pens

Soiled to Clean in One Easy Step©
Complete with precision solvent selection, FerruleMate® Tools and variety of swab tools

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The packages have changed; the quality and performance have not!

“PX”™ ES810 aerosol: YELLOW LABEL

“MX”™ FW2150 pen: BLUE LABEL

“FiberWash”™ FW2190 pen: GREEN LABEL

Fusion Splice Prep swab tools: BLACK LABEL

“Back Plane” precision swab tools: RED LABEL

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CCK-Series:
Combination Cleaning™ “To Go”

CCK-1
Clean it with SqR® and “MX” Pen.
Leave the mini kit for the next time

CCK-2
With FiberWash® Pen

CCK-3T
Clean it and leave it for the next time or pack it along over the next hill.
With 2.5mm reticulated foam swab tools/X’Tender
FsK 1000™ Fusion Splice Prep and Maintenance Kit

1-FsP® Vertical Aerosol (pat-pend) for best single and mass splices on core and cladding alignment devices.

1 –FsW® “Aperatured Wipers” capture residues on bare glass for low loss splices.

2-Tubes V-Groove Tools

2-Tubes Lens/Mirror Cleaning Tools

10-“MX” Single Step Presaturated Wipers for gels, lubes and tools

1-Pack 4”x4” Non Woven Lint Free Wipers.

Highest Performance Precision Splice ... Maintain Equipment Efficiency
FOCCUS
an ITW Chemtronics® Brand
Fiber Optic CombinationCleaning® Universal Systems™

CFK-2000:
MidSpan Chemical Break in Procedure
Patented

Safe for color layer and cladding, no knives or razor blades. Works in 90-120 seconds on most ribbon. Complete Kit.

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