



CLEARFIELD

# INSPECT THEN CONNECT

## Cleaning Manual

**Inspect and clean EVERY connector before inserting into adapter.**

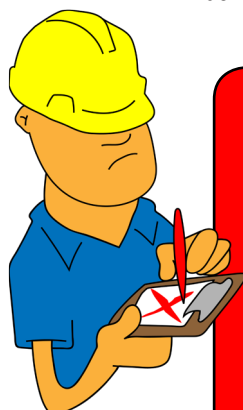
### CLEAN CONNECTOR



Pass

### DIRTY CONNECTOR

Dirty end faces can scratch and damage mating connector which can cause attenuation.



Fail

Product	Clearfield Part Number	Contents
LC Cleaning Kit	CleanKit-LC-01	<ul style="list-style-type: none"><li>Ferrule and V-groove cleaning swab 50/tube</li><li>SFF Connector Flat Swab 500/bag</li><li>1.25mm ferrule swab (LC) 50/tube</li><li>Portable platform 400perforated/box</li><li>Fiber Wash MX Precision Cleaner Pen</li></ul>
SC Cleaning Kit	CleanKit-SC-01	<ul style="list-style-type: none"><li>Ferrule and V-groove cleaning swab 50/tube</li><li>SFF Connector Flat Swab 500/bag</li><li>2.5mm foam swab SC only 50 per tube</li><li>Portable platform 400perforated/box</li><li>Fiber Wash MX Precision Cleaner Pen</li></ul>
MPO Cleaning Swab	CleanMPO-01	<ul style="list-style-type: none"><li>MPO Chamois Swab 25/tube</li></ul>
Replacement V-groove Swab	018886	<ul style="list-style-type: none"><li>Ferrule and V-groove cleaning swab 50 per tube</li></ul>
Replacement Flat Swab	018887	<ul style="list-style-type: none"><li>SFF Connector flat swab 500 per bag</li></ul>
Replacement 2.5mm Swab	018888	<ul style="list-style-type: none"><li>2.5mm foam swab SC only 50 per tube</li></ul>
Replacement 1.25mm Swab	018889	<ul style="list-style-type: none"><li>1.25mm ferrule swab LC only 50 per tube</li></ul>
Replacement Platform	018891	<ul style="list-style-type: none"><li>Portable platform perforated 400 per box</li></ul>
Replacement Cleaning Pen	018892	<ul style="list-style-type: none"><li>Cleaning Pen, MX Precision ordered seperately</li></ul>
Replacement Nylon Bag	018932	<ul style="list-style-type: none"><li>Nylon bag, Empty, blue</li></ul>
MPO Swiping Tool	016558	<ul style="list-style-type: none"><li>Tool for cleaning through MPO adapter</li></ul>
SC Swiping Tool	016313	<ul style="list-style-type: none"><li>Tool for cleaning through SC adapter</li></ul>
LC Swiping Tool	016312	<ul style="list-style-type: none"><li>Tool for cleaning through LC adapter</li></ul>

### Connector Cleaning Procedure

Whether factory terminated or field spliced, clean connectors are essential for proper system operation. Even the smallest dust particle can cause transmission problems, so for optimal network performance inspect, and if necessary, clean connectors and adapters prior to mating.

#### Inspect Then Connect

These are Clearfield recommended products/applications. Use the product you feel will complete your cleaning procedures. Create a “best practice” for your company and follow those procedures.

The use of Chemtronics end face and bulkhead cleaning products and techniques ensures a clean end face, no matter the type of contamination.

Before cleaning any connector, be sure you know what type of contaminate you are cleaning (dry, fluidic, or combination). All the available products are good, it's the process that you need to be aware of. Using a dry cleaning method to clean “dirt” can lead to scratching of the end face. Learn the process of cleaning properly.

**Note:** It is **NOT** recommended to use isopropyl alcohol to clean the end face.

### Cleaning an SC/LC Connector

#### Cleaning the End Face

- Place one wiping paper on QbE-2 FiberSafe™ Cleaning Platen. (Figure 1)
- Apply small amount of precision cleaner (about 1” in diameter) with Electro-Wash MX pen on to one end of the wipe. (Figure 2)
- Hold end face at a 90 degree angle. For APC connection, adjust by slightly tilting the container or end face. Angle is correct when no drag is felt on the end face. (Figure 3)
- Draw end face from wet to dry part of the wipe 3 times. Use just enough pressure to ensure complete contact between end face and the wipe.

**Note:** **DO NOT** retrace previous step.



Figure 1



Figure 2



Figure 3

### Cleaning the Ferrule

- Lightly moisten the fiber optic swab (2.5mm/38542F or 1.25mm/38040) by spotting a small amount (about 1") of Electro-Wash PX or Electro-Wash MX pen onto the QbE. Hold the swab, 1 side down to the wetted area and hold for a count of 1-2-3-4-5. **(Figure 4)**

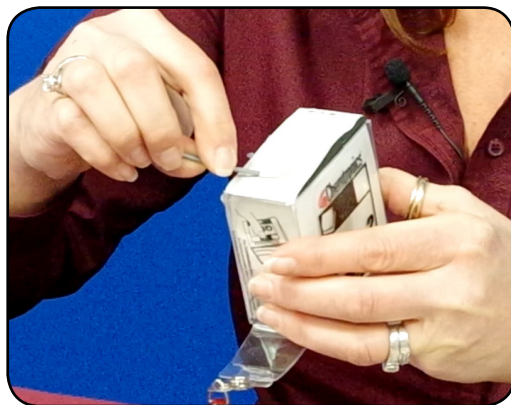


Figure 4

- Insert swab into side of ferrule, wet side to the ceramic ferrule and circle around 2-3 times and remove. Turn swab to dry side and repeat. **(Figure 5)**



Figure 5

### Cleaning the Mate Through an Adapter AND the Adapter Itself

- Lightly moisten the fiber optic swab (2.5mm/38542F or 1.25mm/38040) by spotting a small amount (about 1") of Electro-Wash PX or Electro-Wash MX pen onto the QbE. Hold the tip of the swab onto the wetted area and hold for a count of 1-2-3-4-5.
- Insert the swab into the adapter to the connector, press lightly against the connector, twist 2-3 times, remove and discard.
- Dry with a second dry swab.
- Inspect, repeat cleaning if necessary, and test for signal strength.
- Use additional swabs to clean inside the actual adapter. Moisten swab, like above, and insert through hole and remove while twisting. **(Figure 6)**

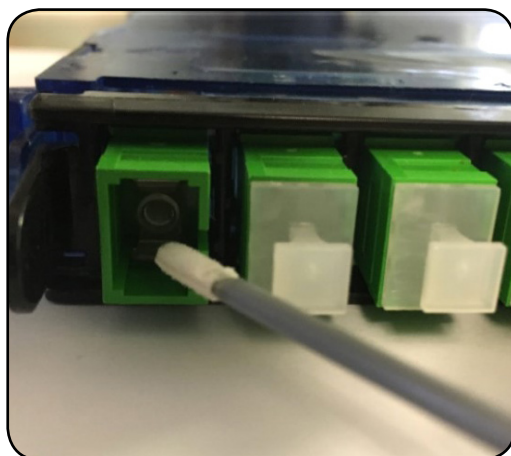
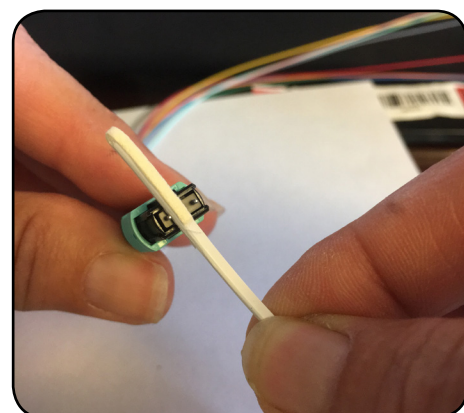


Figure 6

### Cleaning an MPO/MTP Connector

#### Male Connector

- Use of Chemtronics MTP Connector Cleaning Swabs (CC505F) is recommended. Even after cleaning with a probe cleaner, you should always clean the pins with this (or an equivalent) type swab. Cleans ALL MTP/MPO connector end faces. This swab also cleans the “pins” of the male connector
- Lightly “spot” a QbE-2 wipe on the platen with Electro-Wash PX Fiber Optic Cleaner, the FiberWash or MX Pen.
- Lightly touch short side of the MTP/MPO Connector Swab to the wetted area (3-5 secs) to absorb some cleaning solution (DO NOT over saturate the swab).
- Wipe connector areas to be cleaned, sliding pad from bottom of pad across and forward to tip of swab, from 1 side to the other, turn over and use long side to dry in same movement.



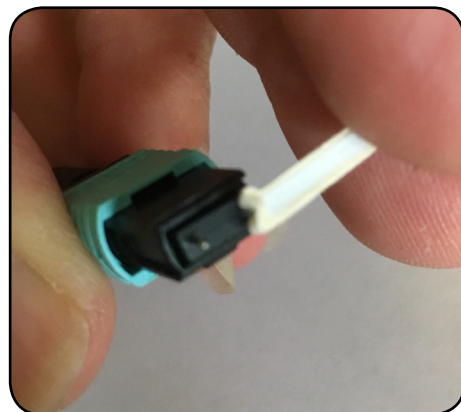
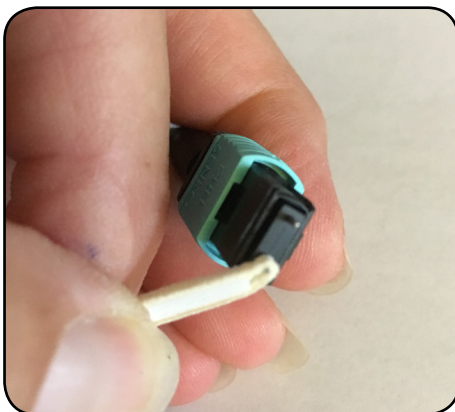


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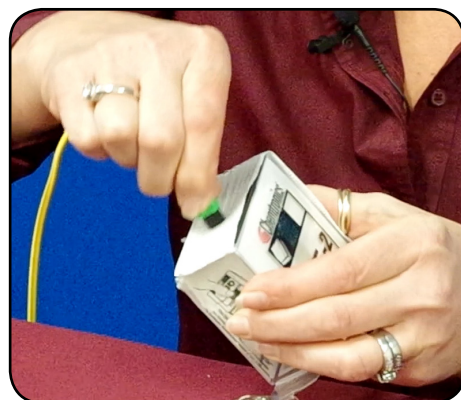
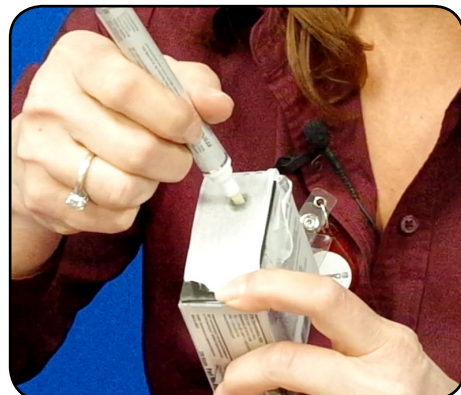
## *Cleaning Manual*

- Use the hole on end of pad to clean one alignment pin, then press the end of the swab into the other pin to clean.
- Check your work with a fiber scope. This can take several attempts to get the endface clean.



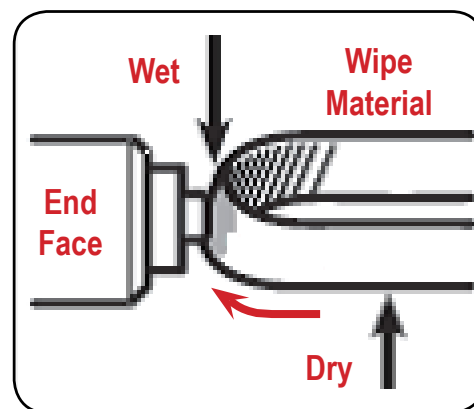
### **Female Connector (without pins)**

- Cleaned like a single fiber connector, using a cleaning platform. The receptacles will be cleaned as long as you are using a combination cleaning process as recommended.
- Again, using a platen, moisten the platen with cleaning solvent on one end to accommodate 3 swipes of the MPO female endface.
- Holding the connector (If APC, slightly at an angle to accommodate for 8° angle) swiping with medium pressure, from the wet area into the dry area 3 times, without wiping over previous area.
- Inspect, and if clean, make the connection. If NOT, repeat above steps until clean or if determined that the end face is damaged (based on standards of 5 cleanings per connection), replace.

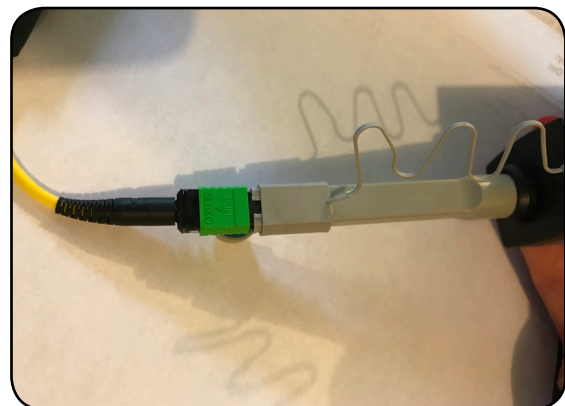
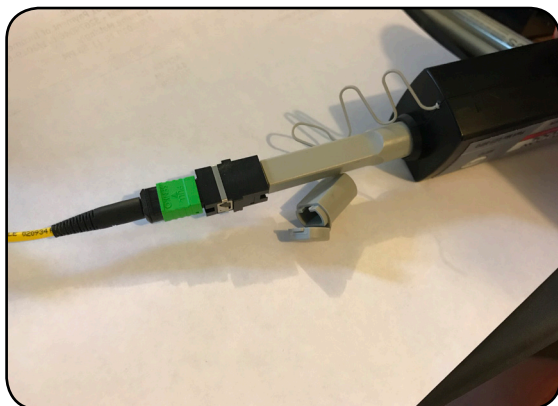


### Cleaning Using a Probe-Style Cleaning Tool

- The probe style cleaning tools are capable of cleaning a connector end face separately or through the adapter.
- Slightly engage probe by pulling back but do not allow to click. Lightly “spot” a QbE-2 wipe on the platen with Electro-Wash PX Fiber Optic Cleaner, this will help alleviate “over saturation” of the material.
- Lightly touch the tip of probe and release.



- Insert connector or insert probe through adapter and click 2-3 times to move past the wet area and allow material to dry wipe.



- Inspect connector, repeat if necessary (following standards)
- If cleaning a male connector, clean the pins (see above)