



Technical Specification

STICKLERS™ FIBER OPTIC SPLICE & CONNECTOR CLEANER

- The Industry's Only Product Specifically Engineered for Cleaning Fiber Optic Connectors or Fiber Before Splicing
- Nonhazardous, Nonflammable, Plastic-Safe
- Fast Drying — Can't Be Trapped Inside Connectors
- Unique Triton™ Spray Cap Is Spill-Proof, Convenient
- Compatible With Sticklers™ CleanWipes™, Sticklers™ CleanStixx™, CLETOPS® and "One-Click" Tools

The **Sticklers™ Fiber Optic Splice & Connector Cleaner** is the only cleaning fluid on the market today specifically engineered for fast, reliable and consistent cleaning of fiber optic networks.

The optical-grade liquid easily removes fingerprints, oils, dust, lint and surface films. It dissipates the static that "locks" particulate on to end-faces, so it easily removes dust and lint. Unlike other liquids, the Sticklers™ Cleaner dries quickly and can't be trapped inside connectors. It's safe on single-mode and multi-mode fiber, connectors, plastic, glass, adhesives, epoxies and all tested optical coatings. It also can be used on lenses, mirrors, gratings, prisms and displays.

The hermetically-sealed package holds sufficient liquid for over 400 cleanings, so each cleaning costs only pennies. Each canister features the orange Triton™ dispenser, so techs can spray liquid, dampen a cleaning stick, or wet a wipe, all from one package. The spill-proof canister is "TravelSAFE™" — it can be shipped, even by air, without hazmat hassles.

Clean in seconds, clean for pennies: the Sticklers™ cleaning fluid is your key to fast, reliable, consistent cleaning of connectors and splices.



Technical Details

Product Family	Nonflammable Liquid Cleaner
Application	Wet-Dry Cleaner for Fiber Optics
Appearance	Clear, Colorless Liquid
Toxicity (ppm, 8 Hr., TWA, PEL)	See MSDS
Flammability	Nonflammable
Flashpoint (TCC)	None
NFPA Ratings	Health: 3; Fire: 1; Reactivity: 0
REACH & ELINCS Compliant (See MSDS)	Yes
RoHS and WEEE Compliant	Yes

Packaging

TravelSAFE™ Triton™ 3-way dispensing canister with enough liquid for more than 400 cleanings:
3 oz. / 85 g can MCC-POC03M

Packaged in cases of twelve (12) cans per box. Unlimited shelf life. 12-month warranty. This cleaner has been tested on a wide variety of ceramics, epoxies, glass, metals, plastics and elastomers. No compatibility problems were found. The liquid is nonflammable, noncorrosive and non-pressurized, so it can be shipped by air without hazmat fees, even on commercial aircraft. Larger package sizes available; contact MicroCare or your distributor for details.

Product Notes

With this cleaner, MicroCare strongly recommends the **Sticklers™ CleanStixx™** for cleaning connectors and down inside alignment sleeves. **Sticklers™ Outdoor CleanWipes™** are perfect for field technicians working up on poles and down in manholes, while **Sticklers™ Benchtop CleanWipes™** are the best choice for inside applications.

AVAILABILITY. More information about this product and contact information for your local distributor is available on-line at SticklersCleaners.com.

TRADEMARKS: The term "Sticklers", "CleanStixx", "CleanWipe™", "TravelSAFE", and "Triton" a trademarks of MicroCare Corp. The cleaning sticks are protected under US patent #7,401,374. The Outdoor wipe and the Triton™ dispensing cap are both patent pending. The MicroCare name and logo are registered trademarks of MicroCare Corp.

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The Sticklers™ cleaning fluid features safety data and instructional information on a unique, two-sided label. Peel back the label for a lesson in a can!



STICKLERS™ CLEANERS

Manufactured by MicroCare Corp.

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On the Web: www.SticklersCleaners.com

MicroCare Is ISO 9001:2008 Registered

STICKLERS™ CLEANSTIXX™

- **A High-Purity, Lint-Free, Precision “Swab” for Cleaning Fiber Optic End-Faces**
- **Available in Five Sizes, So It’s the Only Product Able to Clean Any Configuration of Connector**
- **Molded Fibrous Tip Out-Performs Foam or Cloth Nibs**
- **Tip Conforms to End-faces, Including APC**
- **Cleans the Entire End-Face, Not Just the Contact Area**

The innovative **Sticklers™ CleanStixx™** are a fresh, new technology for cleaning today’s high-speed fiber optic networks. When dampened with the **Sticklers™ Fiber Optic Splice & Connector Cleaner**, CleanStixx™ will get any fiber network running faster, more reliably than any other technology on the market today.

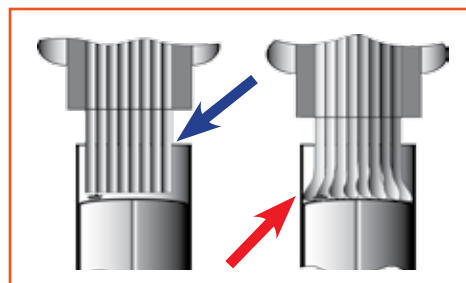
CleanStixx™ are different from other cleaning “swabs.”

Each CleanStixx™ features a high-purity, fibrous polymer tip, instead of cloth or foam which will leave residues. The tip is molded to a precise size so it spins off-center during cleaning. This improves cleaning results, even on the smallest end-faces (blue arrow, lower right).

In addition, the fibers in the tip spread during cleaning (red arrow) to grab particulate while capillary action wicks up liquids. The tip flexes, so only CleanStixx™ clean APC connectors. CleanStixx™ also clean the entire end-face, not just the contact area.

It only takes a tiny bit of lint or oil to degrade a modern network.

CleanStixx™ leave end-faces clean and residue-free. Available in five sizes, only Sticklers™ CleanStixx™ can clean any connector, any size, any configuration, just about every time.



Technical Details

There is one “head” or tip on each stick. Tips with an “S” in the part number are for cleaning end-faces within alignment sleeves, such as bulkhead adaptors or ports. “P” tips are for cleaning exposed ferrules and termini (jumpers). Packaged in color-coded bags of ten sticks, with five bags in each box. Six boxes per case. Unlimited shelf life. Twelve-month warranty.

2.5mm connector cleaning stick (blue label)— SC, ST, FC, ASC, AFC, etc.	MCC-S25 National Stock Number 6070-01-553-2263
2.0mm & 1.6mm connector cleaning stick (orange)— MIL-C-28876, MIL-C-38999, D4, MT-RJ	MCC-S16 National Stock Number 6070-01-553-2262
1.25mm connector cleaning stick (green label)— LC, MU	MCC-S12 National Stock Number 6070-01-553-2267
Larger connectors and lenses (pink label)— SMA, MTP (with or without pins), Biconic; also for cleaning lenses within recessed fixtures	MCC-XTM
Recessed tip, for all exposed termini 2.5mm or smaller (yellow label)—	MCC-P25 National Stock Number 6070-01-553-2258
Combo pack of all five CleanStixx™, ten of each type; for military and commercial	MCC-VM
Combo pack of twenty S25 Stixx, ten S12 Stixx, and twenty P25 Stixx	MCC-VS

Product Notes

RELATED PRODUCTS: For best results, use **Sticklers™ CleanStixx™** with **Sticklers™ Fiber Splice and Connector Cleaner** for cleaning inside alignment sleeves. While other liquids could be used, only the Sticklers™ cleaning fluid has the proper chemical characteristics (density, viscosity, drying time, etc.) as well as the proper packaging to get the job done in the most cost-effective manner.

AVAILABILITY: More information about this product and instructions for use are available on-line at SticklersCleaners.com.

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Microphotographs of fiber optic end-faces. Left: a connector carrying fingerprint oils. Right: a clean connector that will transmit data perfectly. Enlarged approx. 200x.



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Technical Specification

STICKLERS™ BENCHTOP CLEANWIPES™

- **Optical-Grade Lint-Free Wipe for Cleaning Fiber Optic Connectors, or Bare Fiber Before Splicing**
- **Far Stronger than Traditional Wipes, for Better Cleaning**
- **No Glues, Bleach or Cellulose to Degrade End-Faces**
- **Makes “Wet/Dry” Cleaning Easy**
- **Highly Cost-Effective**

Sticklers™ Benchtop CleanWipes™ are high quality, lint-free wipes engineered for cleaning bare fiber before splicing and for cleaning jumpers and other male connectors used in fiber optic networks. These wipes have exactly the right absorbency, quality and packaging to make cleaning fast, reliable and affordable. They are engineered to be used with the **Sticklers™ Fiber Optic Splice & Connector Cleaner** for the best possible cleaning results.

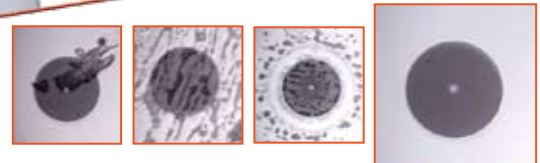
The wipes are made from soft, hydroentangled polyester fabric, made without troublesome glues or cellulose which can leave residues on end-faces. The strong fabric resists shredding even when cleaning LC connectors. These wipes lift away fingerprint oils, grime, dust and lint. This makes them ideal for cleaning bare fiber or fiber optic connector end-faces, plus lenses, mirrors, diffraction gratings, prisms and test equipment.

The packaging has been designed to make cleaning easier for technicians. The handy mini-tub is rugged and spill-proof. Each wipe is protected with a plastic over-wrap which keeps fingerprints and moisture off the wipes. The unique “Drop-n-Stop™” packaging keeps the tub from rolling when dropped, and is far more cost-effective than comparable “cartridge-style” cleaning devices.

In summary, each connector and every splice must be cleaned during installation, maintenance and reconfiguration. (This is true even if a jumper is new, right out of the bag.) Most experts recommend cleaning with a damp wipe, as shown in the photo, for best results. To implement this “wet-dry” cleaning, nothing beats the combination of **Sticklers™ Benchtop CleanWipes™** and the **Fiber Optic Splice and Connector Cleaner** fluid.



Below are microphotographs of fiber optic end-faces. Every tech should always be equipped with an inspection scope to ensure connectors are clean. Left to right: a connector carrying a piece of cotton fiber from clothing; fingerprint oils; results of mating a clean connector with the oily connector to its left; and a clean connector which will transmit data perfectly. Enlarged approx. 200x.



Packaging

Sticklers™ Benchtop CleanWipes™ MCC-WFW
National Stock Number 7920-01-547-6547

Each mini-tub contains 90 perforated lint-free wipes, each wipe being 4" x 2" (10 cm x 5 cm). Normally each wipe is used 3-4 times before disposal. There are 24 mini-tubs per case, for a total of 2,160 wipes per case. Each mini-tub is approx. 3" in diameter and 3" tall (8 cm x 8 cm). Unlimited shelf life. 12-month warranty.

Sticklers™ Benchtop Wipes in Flat Pack MCC-WF44

These flat wipes use the same, high-purity paper as the Benchtop Wipes. They are 4" x 4" (10 cm x 10 cm) and are packaged in a bag of 50 wipes, in cases of 96 bags. Normally each wipe is used 10-20 times before disposal. Unlimited shelf life. 12-month warranty.

Product Notes

RELATED PRODUCTS: MicroCare strongly recommends using the Sticklers™ Fiber Splice and Connector Cleaner (#MCC-POC03M) with the Benchtop CleanWipes. While other fluids may be used, their results will be sub-optimal. Only the Sticklers™ Cleaner has the strength, density, rapid drying, easy handling and remarkable Triton® packaging to make “wet-dry” cleaning fast, easy and reliably consistent.

AVAILABILITY: More information about this product and contact information for your local distributor is available on-line at SticklersCleaners.com.

TRADEMARKS: The term “Sticklers”, “CleanStixx”, “CleanWipes”, “TravelSAFE”, and “Triton” a trademarks of MicroCare Corp. The cleaning sticks are protected under US patent #7,401,374. The CleanStixx™, the Outdoor wipe and the Triton™ dispensing cap are all patented or patent pending. The MicroCare name and logo are registered trademarks of MicroCare Corp.

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Technical Specification

STICKLERS™ OUTDOOR CLEANWIPES™

- High-Purity Wipe for Cleaning Fiber Optic Connectors or for Cleaning Bare Fiber Before Splicing
- Hermetically-Sealed Package Keeps Wipe Clean Until Used
- Cleans Both Simplex and Duplex Connectors
- Easy-to-Understand Instructions Minimize Training
- Unique Design, One-of-a-Kind Capabilities

Packaging

50 packets/bag; 12 bags/case
National Stock Number

MCC-FA1
Pending

Unlimited shelf life. 12-month warranty.

Related Products

For improved wet-dry cleaning, use the *Sticklers™ Fiber Optic Splice & Connector Cleaner* (#MCC-POC03M) which comes in a pocket-size spray canister. This cleaning fluid is strong, nonhazardous and dries fast, so it out-performs any other alternative on the market today. Although the container is convenient and small, it contains enough liquid for more than 400 cleanings, so the cost-per-cleaning is just pennies.

Sticklers™ Benchtop CleanWipes™ may be a slightly more cost-effective choice for technicians working in offices, cable closets and on workbenches. There also are the larger wipes (#MCC-WF44) for cleaning jumpers and other exposed end-faces.

Product Notes

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The new *Stickler™ Outdoor CleanWipes™* are the only wipes on the market engineered for fast, reliable cleaning in harsh environments. They have been designed to stay clean and dry until the package is opened, which is ideal for convenient and consistent cleaning of fiber networks anywhere, any time: even in rain, snow, dust and winds.

Each lint-free wipe is packaged in a hermetically-sealed, contamination-proof packet that is opened just before use, so cleaning is fast and efficient. Each wipe is made from a field-proven, lint-free polyester fabric that resists shredding, even on LC end-faces.

The wipes contain no cellulose, glues or bleaches which might contaminate surfaces. And the foil package protects both the wipe and the user from the solvents, eliminating the need for gloves or finger cots. Each wipe can clean up to six connector end-faces.

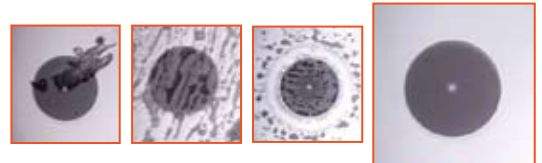
Each package has a convenient "button-hole" so the wipes can be attached directly to cables, accessories or equipment.

This product always should be used with the *Sticklers™ Fiber Optic Splice & Connector Cleaner*, the only cleaning fluid on the market today specifically engineered for cleaning fiber. When dampened with the cleaning fluid, each *Sticklers™ Outdoor CleanWipe™* will deliver fast, convenient "wet-dry" cleaning which is in compliance with the fiber optic industry's best practices.



Below are microphotographs of fiber optic end-faces.

Every tech should always be equipped with an inspection scope to ensure connectors are clean. Left to right: a connector carrying a piece of cotton fiber from clothing; fingerprint oils; results of mating a clean connector with the oily connector to its left; and a clean connector which will transmit data perfectly. Enlarged approx. 200x.



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STICKLERS™ FIBER OPTIC CLEANING KIT

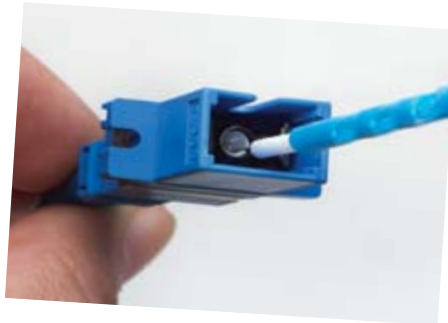
- Contains the Most Popular Items for Cleaning Fiber Optic Connectors and for Cleaning Before Splicing
- Bright Color Makes It Easy to Locate, Hard to Leave Behind
- Easy-Open Zipper and Convenient Self-Sealing Pouches for Holding Tools, Meters or Extra Supplies
- Features Nonflammable TravelSAFE™ Cleaning Liquids, with the Spill-Proof Triton™ 3-Way Spray Cap



The **Sticklers™ Fiber Optic Cleaning Kit** has been engineered to help field techs clean fiber networks quickly, reliably and inexpensively. This kit puts the time-saving Sticklers™ cleaners in a “go anywhere, clean anything” package, giving each tech all the tools they need to get the job done right.

The Kit contains cleaners, wipes and swabs. With room for extra supplies, inspection scopes, strippers, clamps or other tools, each kit can be customized for either cleaning bare fiber before fusion splicing, or for cleaning connectors end-faces, or both. Key features include:

- The zipper bag speedily opens and closes, making it easy to handle, even with just one hand. The bright color makes it easy to find, even in dimly lit areas, down in manholes, or buried in the back of a truck.
- The bag is the perfect size to hold enough supplies without being cumbersome or bulky. Generous side-pockets allow additional wipes, sticks and tools to be stored in the kit
- The Cleaning Kit features proprietary, nonflammable TravelSAFE™ solvents so the kits can be shipped, even by air, without extra fees for hazardous materials or extra paperwork
- A plastic window displays owner identification in case the kit is lost



Packaging & Part Numbers

MCC-FK03 1 Each Kit 6 Kits Per Case
 The shelf life for all of the products in the Kit is unlimited.

Product Notes

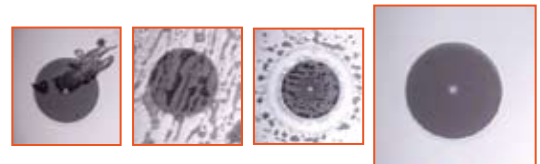
RELATED PRODUCTS: For best results, refill the kit with Sticklers™ cleaning products. Specifically, the **Sticklers™ CleanStixx™** and the **Sticklers™ Fiber Splice and Connector Cleaner** are used together for cleaning inside alignment sleeves because only the Sticklers™ cleaning fluid has the proper chemical characteristics (density, viscosity, drying time, etc.) as well as the proper packaging to get the job done in the most cost-effective manner.

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Each kit consists of a heavy-duty, weather-resistant, soft-sided polyester bag with a zipper closure. The bag is 9” wide x 5” deep x 5” tall (approx. 20cm x 12cm x 12cm). Each kit contains two cans of **Sticklers™ Fiber Optic Splice & Connector Cleaner**, sufficient for more than 800 cleanings; two “mini-tubs” of **Sticklers™ Benchtop CleanWipes™**; one packet of 25 **Sticklers™ Outdoor CleanWipes™** for use in harsh environments, five sleeves of **Sticklers™ CleanStixx™** for cleaning inside alignment sleeves, and a high-intensity, heavy-duty LED inspection flashlight.

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Now Get Perfectly Clean Fiber Optics, In Seconds, for Pennies

Featuring Two Unique Packages for OEM and Field Applications

1



CleanWipes™ 3200
Contains 3,200 Cleanings

2



CleanWipes™ 400
Contains 400 Cleanings

- Exclusive, high-modulus CleanWipe™ material won't rip, tear, shred or lint, for the best possible cleaning
- Super-soft wiping material won't scratch end-faces
- Color-coded CleanSlots™ monitor the cleaning process (see photo, below)
- Eliminates static
- Eliminates re-cleaning
- The larger CleanWipe is perfect for the high-volume, high-speed cleaning required by OEMs making patch cords and jumpers
- The smaller package works exactly the same way, but is more transportable, so it's perfect for techs in the field

