

Fiber Optic Cleaning Guide

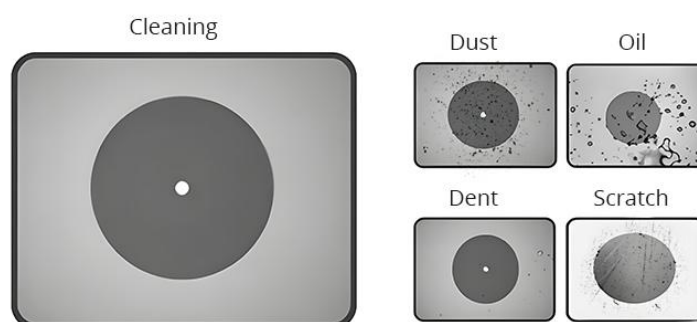
Properly clean fiber optic connectors with appropriate tools and techniques to prevent damage and ensure optimal performance



The Importance of Cleaning

A clean fiber optic connector is essential for maintaining optimal performance in any optical network. Even tiny contaminants—such as dust, oils, moisture, or other residues—can cause significant signal loss, increased reflectance, and permanent damage when connectors are mated. Proper cleaning techniques, high-quality tools, and regular maintenance help ensure:

1. **Maximized Signal Integrity:** Prevent power loss and maintain high-speed data transmission.
2. **Avoid Cross-Contamination:** Stop contaminants from spreading between connectors.
3. **Minimize Long-Term Damage:** Reduce the risk of scratches and permanent defects.



Good Cleaning Practices: Inspect-Clean-Inspect

1. Always inspect both connectors before mating
2. Mating dirty connectors may:
 - Cross-contaminate both connectors
 - Scratch and pit the ferrule end face
3. Inspecting and cleaning before mating will:
 - Prevent permanent damage to connectors
 - Reduce troubleshooting time
 - Reduce material costs
 - Improve signal quality
4. Make keeping fiber optic connectors clean a priority
 - Develop inspection and cleaning procedures
 - Train your team regularly on how to inspect and clean your connectors

Single Fiber Cleaner Instructions

1. Cleaning cable assemblies in bulkhead adapters:



Remove guide cap from cleaner



Insert tip of cleaner into adapter



Push cleaner into adapter until click signals completion

2. Cleaning unmated cable assemblies:



Open the cover of the guide cap



Insert connector into the guide cap



Push cleaner into connector until click signals completion

Multi-fiber Cleaner Instructions

1. Cleaning cable assemblies in bulkhead adapters:



Remove guide cap and place it on the cap holder



Insert tip of cleaner into adapter



Push cleaner into adapter until click confirms completion

2. Cleaning unmated cable assemblies:



Open the cover of the guide cap



Insert connector into the guide cap



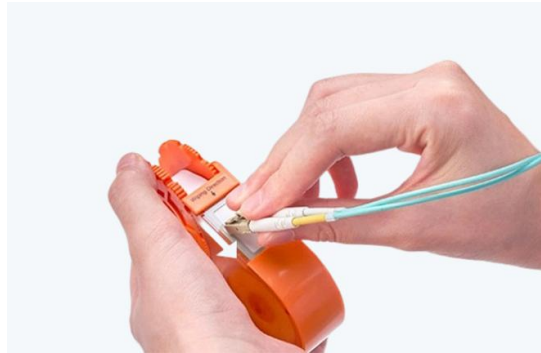
Push cleaner into connector until click confirms completion

Cassette Cleaner Instructions

1. Cleaning unmated cable assemblies:



Take up the winding reel until the new cleaning tape appears in the window in the direction of the arrow



Slide the connector while pressing its ferrule end-face against the tape in the direction of the arrow

Single Fiber Cleaning Tools

The single fiber cleaners are designed to effectively clean various single fiber connectors such as LC/MU, SC/FC/ST/LSH and MDC, both residing in an adapter or fiber optic panel and unmated. They feature a novel dry cleaning strand to gently sweep and lift away dust and debris from the connector end face that eliminates the need to use solvents for an effective clean. A simple pushing motion to engage the tool, an audible CLICK to alert the operator that the tool is fully engaged, and a dust cap attached by a lanyard to prevent losing it.

Features

- Available in 525+/750+ Cleaning Engagements Per Unit
- Available for LC/SC/FC/ST/LSH/MU/MDC Connectors
- Simple Push to Clean the Ferrule End Face of Connectors on Cables or in Adapters
- Eliminating the Need to Use Solvents for Effective Cleaning
- A Lanyard attaches the Dust Cap to Prevent Losing It
- Removing Oil, Dust, and Dirt Without Damaging Delicate Fiber End-faces

Specification

	ATC-NE-E1	ATC-NE-E3	14303	22046	PCLCSX
ID	#39721	#39725	#106398	#139603	#321467
Brand	NEOCLEAN	NEOCLEAN	US Conec	US Conec	FS
Connector Type	LC/MU	SC/FC/ST/LSH	LC Duplex	MDC	LC/MU
Polish Type	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC
Ferrule Size	1.25mm	2.5mm	1.25mm	1.25mm	1.25mm
Use Type	Replaceable	Replaceable	Disposable	Disposable	Disposable
Number of Cleanings	≥ 750 times	≥ 750 times	≥ 525 times	≥ 525 times	≥ 525 times

Multi-fiber Cleaning Tools

The multi-fiber cleaning tools are designed for cleaning the MT-based connector systems loaded in a bulkhead adapter, on the card edge, on a backplane and can even be used to clean unmated cable assemblies using the alignment cap. The design of the multi-fiber cleaning tools allows them to clean both the female (pinless) and male (pinned) connectors. The multi-fiber cleaners feature a nozzle that is keyed for precise alignment of the cleaning tip to the fiber array.

Features

- 525+ Cleaning Engagements Per Unit
- Available for MTP®/MPO-8/12/16/24 Connectors
- Simple Push to Clean the Ferrule End Face of Connectors on Cables or in Adapters
- Eliminating the Need to Use Solvents for Effective Cleaning
- Removing Oil, Dust, and Dirt Without Damaging Delicate Fiber End-faces

Specification

	ATC-NE-M1	ATC-NE-M2	7104	17669	25802	25803
ID	#39697	#85849	#106327	#106397	#384651	#384653
Brand	NEOCLEAN	NEOCLEAN	US Conec	US Conec	US Conec	US Conec
Connector Type	MTP®/MPO-8/12/24	MTP®/MPO-16	MTP®/MPO-8/12/24	MTP®/MPO-16	MMC-12/24	MMC-16
Polish Type	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC	PC/UPC/APC
Ferrule Type	MT	MT	MT	MT	TMT-12	TMT-16
Use Type	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable
Number of Cleanings	≥ 600 times	≥ 600 times	≥ 525 times	≥ 525 times	≥ 525 times	≥ 525 times

Cassette Cleaning Tool

The fiber optic cassette cleaner wipes away contaminants from the optical connector end face with ease. The cleaning tape does not produce dust and provides special cleaning strength while resisting foreign particles from mixing into the tape. The tape advance mechanism has been simplified, reducing the number of assembly parts to a minimum, resulting in cost reductions for both manufacturing and assembly.

Features

- 400+ Cleaning Engagements Per Unit
- Available for LC/SC/FC/ST/MU/MTP®/MPO Female Connectors
- Eliminating the Need to Use Solvents for Effective Cleaning
- Removing Oil, Dust, and Dirt Without Damaging Delicate Fiber End-faces
- Cleaning Micro Fibers are Densely Stranded and Debris Free

Specification

	ATC-NE-R2
ID	#91449
Brand	NEOCLEAN
Connector Type	LC/SC/FC/ST/MU/MTP®/MPO Female
Polish Type	PC/UPC/APC
Use Type	Disposable
Number of Cleanings	≥ 400 times

Fiber Cleaning Sticks

Fiber cleaning sticks are made of high-quality polyester and polyurethane. The handle material is polypropylene and superfine fibers are utilized for effective cleaning. Cleaning is achieved by inserting the microfiber tip inside the adapter's aperture and twisting it once. Or being used to cleaning fiber connectors, just lightly press or wipe, and you can complete the cleaning. The microfiber material allows the user to clean installed connector end faces without scratching the surface and ensures a perfect clean the first time.

Features

- Support Removing Pollutants on the End Face and Improving Transmission Quality
- Micro Fiber Captures Tiny Contaminants Safely
- Various Model Sticks for LC/MU/SC/FC/ST/LSH Connectors
- Simple Operation for Only Lightly Pressing or Wiping to Complete the Cleaning
- For the Fiber Industry, Hard Drive Manufacturing, Lab Maintenance, etc.

Specification

	FWCS-701	FWCS-702	ATC-NS-125	ATC-NS-250
ID	#14010	#11430	#190742	#190743
Brand	FS	FS	NEOCLEAN	NEOCLEAN
Connector Type	LC/MU	SC/FC/ST/LSH	LC/MU	SC/FC/ST/LSH
Ferrule Size	1.25mm	2.5mm	1.25mm	2.5mm
Use Type	Disposable	Disposable	Disposable	Disposable
Package Contents	100pcs/Pack	100pcs/Pack	200pcs/Pack	200pcs/Pack

Fiber Cleaning Wipes

Fiber Cleaning Wipes are made of 100% pure wood pulp to help prevent contamination. The dispenser box has a pop-up hole that helps to dispense wipes one at a time and prevent electrostatic shock. Used with alcohol, this near-lint-free tissue is ideal for fiber and connector end face cleaning. Besides, they can be used to wipe small quantities of solvents or other liquids from hands, tools, equipment, or other surfaces.

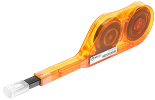
Features

- 100% Natural Virgin Wood Pulp, Environmentally Friendly
- Portable Pull-out Design to Avoid Cross-contamination
- Anti-static Design, Reduces Lint and Static
- Wet and Dry Use, Oil and Water Absorption
- Widely Used in Industries with High Requirements for Dust-free

Specification

	FOCW-X04
ID	#162909
Brand	FS
Color	White
Material	Pure Wood Pulp
Use Type	Disposable
Package Contents	280pcs/Pack

Ordering Information

ID	Appearance	Description
#39721		NEOCLEAN-E LC/MU 1.25mm One-Push Pen Cleaner (750+ Times)
#39725		NEOCLEAN-E SC/FC/ST/LSH 2.5mm One-Push Pen Cleaner (750+ Times)
#39697		NEOCLEAN-M MTP®/MPO-8/12/24 One-push Cleaner (600+ Times)
#85849		NEOCLEAN-M2 MTP®/MPO-16 One-push Cleaner (600+ Times)
#39710		NEOCLEAN-E Pen Replacement Cartridge for 1.25mm LC/MU One-Push Cleaner (3 pcs/set)
#39712		NEOCLEAN-E Pen Replacement Cartridge for 2.5mm SC/FC/ST/LSH One-Push Cleaner (3 pcs/set)
#106398		US Conec IBC™ Brand Cleaner LC ² , for LC Duplex Connectors (525+ Times)
#139603		US Conec IBC™ Brand Cleaner MDC, for MDC Connectors (525+ Times)
#106327		US Conec IBC™ Brand Cleaner MPO II, for 8/12/24 Fibers MPO Connectors (525+ Times)
#106397		US Conec IBC™ Brand Cleaner MTP®-16, for 16 Fibers MPO Connectors (525+ Times)
#321467		FS IBC™ One-Push Pen Cleaner, for 1.25mm LC/MU Connectors (525+ Times)

ID	Appearance	Description
#384651		US Conec IBC™ Brand Cleaner MMC II, for 12/24 Fibers MMC Connectors (525+ Times)
#384653		US Conec IBC™ Brand Cleaner MMC-16 II, for 16 Fibers MMC Connectors (525+ Times)
#91449		NEOCLEAN-R2 Fiber Optic Cassette Cleaner for LC/SC/FC/ST/MU/MTP/MPO Connectors (400+ Times)
#14010		1.25mm Fiber Optic Lint-free Foam Clean Swabs (100pcs/Pack)
#11430		2.5mm Fiber Optic Lint-free Foam Clean Swabs (100pcs/Pack)
#162909		Dust-free Anti-static Fiber Cleaning Wipes 280/Box
#190742		NEOCLEAN-S Fiber Optic Cleaning Sticks 1.25mm, Anti-static Grade (200pcs/Pack)
#190743		NEOCLEAN-S Fiber Optic Cleaning Sticks 2.5mm, Anti-static Grade (200pcs/Pack)