



No Polish Connector

Singlemode and Multimode SC



Description

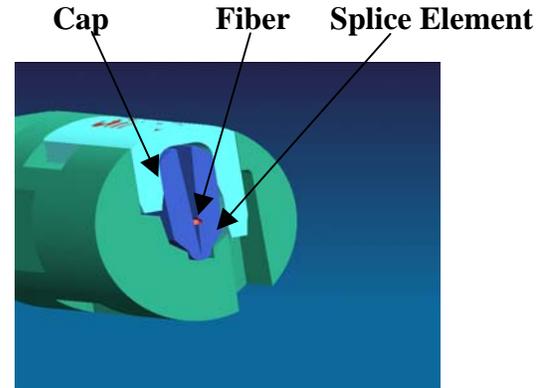
3M™ No Polish Connector (NPC) enables fast, on-site installation of 250µm and 900µm connections utilizing a one piece, pre-assembled design.

The SC compatible connector consists of a factory-polished ceramic ferrule, fiber stub and a mechanical splice that is installed with a simple field tool. A bell-shaped boot is attached to the connector body, eliminating the chance of losing or forgetting to install the boot during the connection.

The no polish connector is tested for premises and FTTP applications for indoor and outdoor locations and is available in SM, 62.5µm, 50µm and also 50µm LOMMF (laser optimized multimode fiber) for 10Gb applications.

Applications

- Inside or outside buildings
- Terminals
- Optical Network Terminals (ONTs)
- Premises outlets
- FDTs/ FDHs/ FDU's



Cross-sectional view of actuated splice

After the fiber is inserted, the assembly tool depresses the cap to force clamping and locating surfaces against the fiber, locking and aligning the fiber in place.

Features	Benefits
Field installation	Always right cable length with no cable slack to store
One piece, pre-assembled design	No small, loose parts
Simple assembly tool	Fast, easy installation
900um buffer strain relief	Excellent pull out strength
Fiber holder for assembly	Designed to eliminate the need to touch bare fiber
Factory-polished fiber stub in ferrule	No on-site polish or adhesives required
Bell-shaped boot	Helps prevent fiber from bending below minimum bend radius

3M™ No Polish Connector

Specifications for Singlemode

Fiber diameter	125µm
Wavelengths	1310nm, 1490nm, 1550nm, 1625nm
Insertion loss (mated to standard SC connector)	< 0.3 dB typical, max 0.6 dB
Reflection (UPC ferrule finish)	<-40dB typical
Connection durability, after 100 matings	< 0.2dB change
Operating temperature	-40°C to 75°C (-40°F to 167°F)
Cable tension (in service)	< 0.5dB increase at 4.8N (1.10lbf) for 250µm < 0.5dB increase at 6.9N (1.54lbf) for 900µm
Water immersion, 43°C (109°F), 3 days	<0.2dB increase after 24 hour dry time

Specifications for Multimode

Fiber diameter	125µm
Wavelengths	850nm, 1300nm
Insertion loss	< 0.3 dB typical, max 0.6 dB
Reflection (UPC ferrule finish)	<-25dB typical for standard MM
Connection durability, after 500 matings	< 0.2dB typical
Operating temperature	0°C to 60°C (32°F to 140°F)

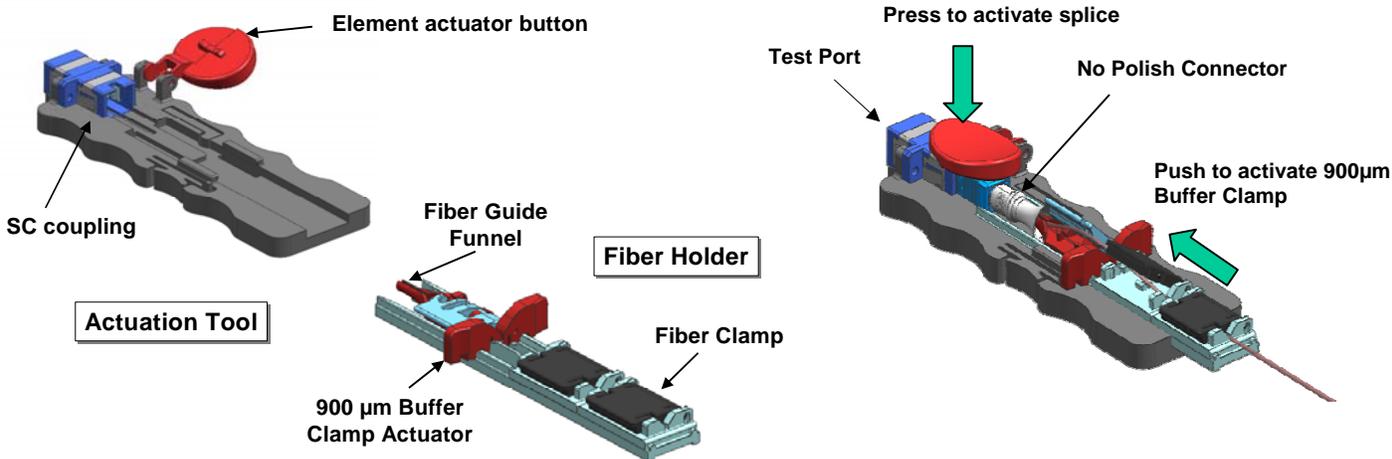
Materials

Ferrule	Zirconia Ceramic
Housing body	Engineered Resin
Boot	Thermoplastic Elastomer
Flame retardancy	UL-94 V-0
Dimensions	12.7 x 12.7 x 49 mm (0.5" x 0.5" x 1.9")

3M™ No Polish Connector

Connector, Kit and Tool Descriptions	Packaging
3M™ No Polish Connector SM SC Plug 250/900 8800 (blue housing)	60/package
3M™ No Polish Connector SC MM 50µm 250/900 6800-50 (black housing)	60/package
3M™ No Polish Connector SC MM 50µm LOMMF 250/900 6800-50/LOMMF (aqua housing)	60/package
3M™ No Polish Connector SC MM 62.5µm 250/900 6800-62.5 (beige housing)	60/package
3M™ No Polish Connector Kit 8865	1/package
3M™ No Polish Connector Kit with Cleaver 8865-C	1/package
3M™ No Polish Connector Assembly Tool 8865-AT	1/package

3M™ No Polish Connector Assembly Tool 8865-AT



Termination process

The simple assembly tool is used to activate the splice and 900µm buffer clamp inside the connector without removing the boot.

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3M™ No Polish Connector Kit with Cleaver 8865-C

Kit Contents

3M™ No Polish Connector Assembly Tool 250/900 8865-AT

3M™ Fiber Cleaver 2534 (not included in 8865 kit)

3M™ Stripping Tool 6365-ST

3M™ Kevlar Snips 6365-KS

Lint free cloths (100/pkg)

Cleaning alcohol bottle



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