

# 3M™ No Polish SC Connector

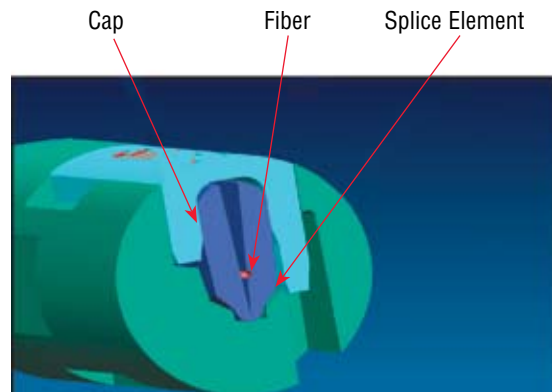
## Singlemode and Multimode SC

3M™ No Polish Connector (NPC) enables fast, on-site installation of 250 μm and 900 μm 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, minimizing 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, 62.5 μm, 50 μm and also 50 μm LOMMF (laser optimized multimode fiber) for 10 Gb applications.

The No Polish Connector is RoHS Compliant.



**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.



**3M™ No Polish Connector Assembly Tool**

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
900μm 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

	6800-50	Multimode 6800-50/LOMMF	6800-62.5	Singlemode 8800
<b>Insertion loss typical @ 1300nm</b>	0.2	0.2	0.2	0.3
<b>Reflection typical (dB)</b>	<-30	<-30	<-25	<-40
<b>Connector Durability after 500 matings (dB)</b>	<0.1 change	<0.1 change	<0.1 change	<0.2 change after 100 matings
<b>Operating Temperature</b>	0°C to 60°C (32°F to 140°F)	0°C to 60°C (32°F to 140°F)	0°C to 60°C (32°F to 140°F)	-40°C to 75°C (-40°F to 167°F)
<b>Cable tension (in service)</b>	< 0.1 dB decrease at 0.5 lbs for 900 µm	< 0.1 dB decrease at 0.5 lbs for 900 µm	< 0.1 dB decrease at 0.5 lbs for 900 µm	< 0.5 dB increase at 4.8 N (1.10lb) for 250 µm < 0.5 dB increase at 6.9 N (1.54lb) for 900 µm
<b>Testing Specifications</b>	TIA*	TIA*	TIA*	
<b>Material</b>				
<b>Connector Ferrule</b>	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
<b>Connector housing and body</b>	Engineered resin	Engineered resin	Engineered resin	Engineered resin
<b>Boot</b>	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer
<b>Flame retardancy</b>	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
<b>Connector Identification</b>				
<b>Backbone</b>	Black	Black	Black	Black
<b>Housing</b>	Black	Aqua	Beige	Blue
<b>Boot</b>	White	White	White	White
<b>Field Termination Kit</b>	8865-C	8865-C	8865-C	8865-C

\*TIA = TIA/EIA 568-B.3

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

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### Communication Markets Division 3M Telecommunications

6801 River Place Blvd.  
Austin, TX 78726-9000  
800/426 8688  
Fax 800/626 0329  
www.3MTelecommunications.com

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