

3M™ No Polish SC Connector

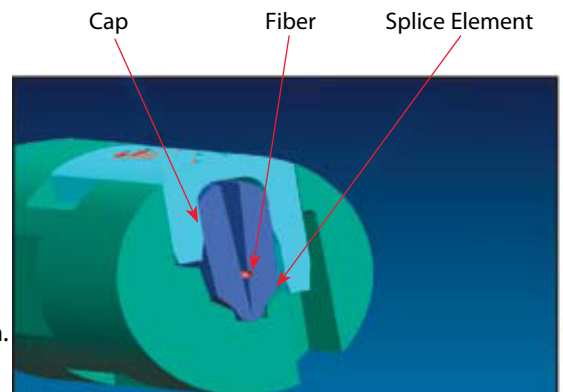
Singlemode and Multimode SC

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 spliceAfter 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



play



pause



stop

Video Controls

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
Insertion loss typical @ 1300nm	0.2	0.2	0.2	0.3
Reflection typical (dB)	<-30	<-30	<-25	<-40
Connector Durability after 500 matings (dB)	<0.1 change	<0.1 change	<0.1 change	<0.2 change after 100 matings
Operating Temperature	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)
Cable tension (in service)	< 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 (1.10lbf) for 250 µm < 0.5 dB increase at 6.9 N (1.54lbf) for 900 µm
Testing Specifications	TIA*	TIA*	TIA*	
Material Connector Ferrule Connector housing and body Boot	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector Identification Backbone Housing Boot	Black Black White	Black Aqua White	Black Beige White	Black Blue White
Field Termination Kit	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

"RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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