

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, which is included in every box of 60 connectors. 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.

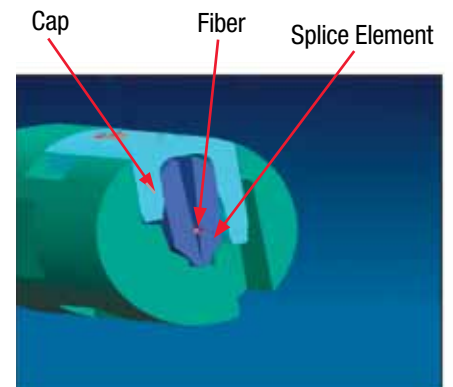
The No Polish Connector is RoHS Compliant.



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



3M™ No Polish SC Connector Assembly Tool 8865-AT



Cross-sectional view of actual 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
900 μm 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 SC 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	<0.1 change after 500 matings	<0.1 change after 500 matings	<0.1 change after 500 matings	<0.2 change after 100 matings
Operating temperature	-40°C to 75°C (-40°F to 167°F)	-40°C to 75°C (-40°F to 167°F)	-40°C to 75°C (-40°F to 167°F)	-40°C to 75°C (-40°F to 167°F)
Cable tension (in service)				
Straight pull	< 0.1 dB increase at 2.2N (0.5 lb.) for 900 µm	< 0.1 dB increase at 2.2N (0.5 lb.) for 900 µm	< 0.1 dB increase at 2.2N (0.5 lb.) for 900 µm	< 0.5 dB increase at 6.9N (1.54 lb.) for 900 µm*
Side pull	< 0.1 dB increase at 2.2N (0.5 lb.) for 900 µm	< 0.1 dB increase at 2.2N (0.5 lb.) for 900 µm	< 0.1 dB increase at 2.2N (0.5 lb.) for 900 µm	< 0.1 dB increase; 2.2N (0.5 lb.) for 900 µm*
Material				
Connector Ferrule	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Connector housing and body	Engineered resin	Engineered resin	Engineered resin	Engineered resin
Boot	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector identification				
Backbone	Black	Black	Black	Black
Housing	Black	Aqua	Beige	Blue
Boot	White	White	White	White
Field termination kit (no power needed)	8865-C	8865-C	8865-C	8865-C

The SC MM NDC meets EIA/TIA 568-8.3 and IEC requirements

*Connectors tested under load.

Ordering Information

Product Number	Connector, Kit and Tool Descriptions	Packaging	3M ID
8800	No Polish SC Connector SM Plug 250/900 (blue housing)	60/package	80-6113-2622-6
6800-50	No Polish SC Connector MM 50 µm 250/900 (black housing)	60/package	80-6113-2623-4
6800-50/LOMMF	No Polish SC Connector MM 50 µm LOMMF 250/900 (aqua housing)	60/package	80-6113-2624-2
6800-62.5	No Polish SC Connector MM 62.5 µm 250/900 (beige housing)	60/package	80-6113-2625-9
8865-C	No Polish Connector Kit with Cleaver	1/package	80-6113-2379-3
8865-AT	No Polish Connector Assembly Tool	1/package	80-6113-2630-9

"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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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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