

3M™ No Polish SC Connector

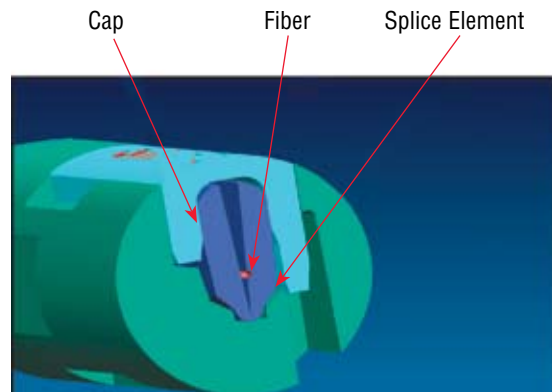
Singlemode and Multimode SC

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
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 (1.10lb) for 250 µm < 0.5 dB increase at 6.9 N (1.54lb) for 900 µm
Testing Specifications	TIA*	TIA*	TIA*	
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	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.

3M is a trademark of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 12 months from the date of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether indirect, special, incidental or consequential regardless of the legal theory asserted.



Communication Markets Division 3M Telecommunications

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

Please recycle. Printed in USA.
© 3M 2008. All rights reserved.
80-6113-1562-5