

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.

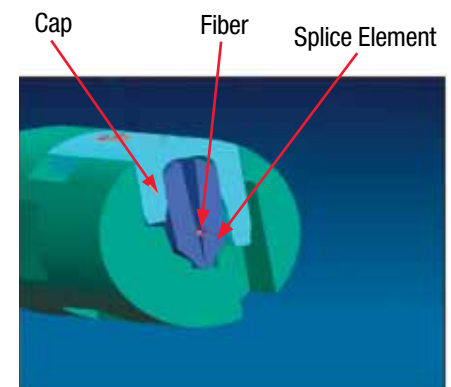


3M™ No Polish Connector Kit with Cleaver 8865-C

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 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.

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.

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 time 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 2009. All rights reserved.

80-6113-1562-5