

3M™ No Polish SC/UPC Connector

Singlemode and Multimode 1.6 to 3.0 mm Jacket

3M™ No Polish SC/UPC Connector (NPC) enables fast, on-site installation of round 1.6 mm to 3.0 mm kink resistant cable* and rectangular drop cable with G.657 bend insensitive singlemode fiber in 1.6 mm x 2.0 mm and 2.0 mm x 3.0 mm configurations.

The SC/UPC compatible connector consists of a factory-polished fiber/ferrule assembly and a mechanical splice that can be installed without an assembly tool. A twist on, hard shell boot clamps onto the cable jacket and aramid fiber to provide excellent strain relief.

To maximize field installation yield, the splice in the connector can be opened and reused with a cap lifter, which is included in every box of 60 connectors.

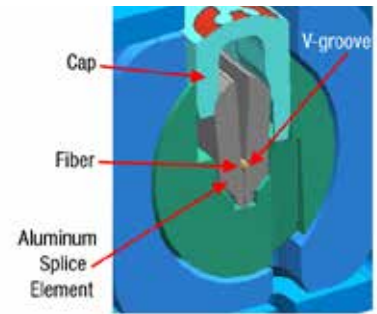
Utilizing the 8802-FUR/900 furcation tubing that is available separately, the NPC can also terminate tight buffer 900 µm fiber by increasing the diameter to 2.0 µm.

* Using bend insensitive singlemode or multimode fiber and a thick wall jacket that is filled with aramid fiber, kink resistant cable can be bent at a 90 degree angle across a sharp corner without excessive insertion loss.

Features	Benefits
Field installation	The right cable length with virtually no cable slack to store
Multiple cable configurations	One connector for 1.6 to 3.0 mm cable and drop cable
No assembly tool	Fast, easy installation
Cable jacket & aramid fiber clamps	Excellent pull out strength
Re-usable	Maximize installation yield

Common Specifications	
Cable diameter	1.6, 2.0, 3.0 mm cable and 1.6x2 mm, 2x3 mm drop cable (900 µm tight buffer fiber with 8802-FUR/900)
Coating diameter	250 µm/900 µm PVC buffer
Fiber type	Multimode fiber or G.657 ITU compliant singlemode fiber with minimum bend radius of 15 mm or less
Dimensions	9.3 x 9.3 x 57.4 mm (0.37" x 0.37" x 2.26")**
Installation temperature	> 15°C (59°F) for cable with tight 900 µm buffer > -5°C (23°F) for cable with semi-tight 900 µm buffer or drop cable

** For 1.6 and 2.0 mm cables, a flexible tube is slipped over the cable to increase the diameter to 3.0 mm. This tube extends 19 mm (0.75") beyond the boot.



Cross-sectional view of actual splice. After the fiber is inserted, the cap is depressed to force clamping and locating surfaces against the fiber, locking and aligning the fiber in place.



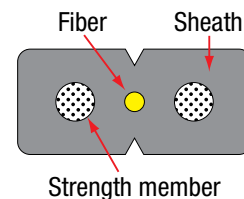
3M™ No Polish SC/UPC Connector Singlemode 1.6-3 mm Jacket



3M™ No Polish SC/UPC Connector Multimode 1.6-3 mm Jacket



The 3M™ No Polish Connector Kit with Cleaver 8865-C includes all the tools necessary for installation.



Cross-sectional view of drop cable (1.6 mm x 2.0 mm, 2.0 mm x 3.0 mm)

3M™ No Polish Connector SC/UPC Jacket Specifications

	MM 6802-T/50/1.6-3	MM 6802-T/50/LOMMF/1.6-3	MM 6802-T/62.5/1.6-3	SM 8802-T/1.6-3
Insertion loss typical @ 1300nm	0.2 dB	0.2 dB	0.2 dB	0.3 dB
Reflection typical at room temp 23°C (73°F)	<-30 dB	<-30 dB	<-25 dB	<-40 dB
Connector durability	<0.1 change after 500 matings	<0.1 change after 500 matings	<0.1 change after 500 matings	<0.1 change after 100 matings
Operating temperature	-10°C to 60°C (14°F to 140°F)	-10°C to 60°C (14°F to 140°F)	-10°C to 60°C (14°F to 140°F)	-40°C to 75°C (-40°F to 167°F)
Cable tension (jacket cable)				
Straight pull	<0.1 dB increase at 50N (11.24 lb)	<0.1 dB increase at 50N (11.24 lb)	<0.1 dB increase at 50N (11.24 lb)	<0.2 dB increase at 24.5N (5.5 lb)***
Side Pull	<0.1 dB increase at 19.4N (4.4 lb)	<0.1 dB increase at 19.4N (4.4 lb)	<0.1 dB increase at 19.4N (4.4 lb)	
Material				
Connector ferrule	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Connector housing and boot	Engineered resin	Engineered resin	Engineered resin	Engineered resin
Connector identification				
Housing/Boot	Black/Black	Aqua/Black	Beige/Black	Blue/Black
*** Connectors tested under load. Note: The SC MM NPC Jacket meets EIA/TIA 568-8.3. Compatible with SC mate standards.				

Ordering Information

Product Number	Product Description	Packaging	3M ID
6802-T/50/1.6-3	No Polish SC/UPC Connector MM 50 µm 1.6-3.0 mm Jacket	60/package	80-6113-9828-2
6802-T/50/LOMMF/1.6-3	No Polish SC/UPC Connector MM 50 µm LOMMF 1.6-3.0 mm Jacket	60/package	80-6113-9829-0
6802-T/62.5/1.6-3	No Polish SC/UPC Connector MM 62.5 µm 1.6-3.0 mm Jacket	60/package	80-6113-9830-8
8802-FUR/900	No Polish SC Connector Furcation Tube for 900 µm fiber (100/bag)	600/package	80-6113-9845-6
8802-T/1.6-3	No Polish SC/UPC Connector SM 1.6-3.0 mm Jacket	60/package	80-6113-3507-8
8865-C	No Polish Connector Preparation Kit with Flat Cleaver	1/package	80-6113-2379-3
8865-C/PR	No Polish Connector Premium Kit with Cleaver	1/package	80-6113-8783-0

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