

3M™ No Polish SC/PC Connector

Singlemode 1.6 to 3.0 mm Jacket

3M™ No Polish SC/PC Connector (NPC) enables fast, on-site installation of 1.6 mm to 3.0 mm kink resistant cable* and FRP 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.

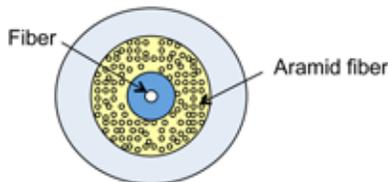
The SC/PC compatible connector consists of a factory-polished fiber/ferrule assembly and a mechanical splice that can be installed without an assembly tool. A twist on, hard shell boot clamps onto the cable jacket and aramid fiber to provide excellent strain relief.

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.

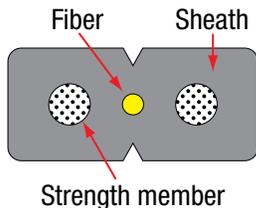
The No Polish Connector is tested for premises and FTTP applications for indoor and outdoor locations.

* Using G.657 bend insensitive 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.

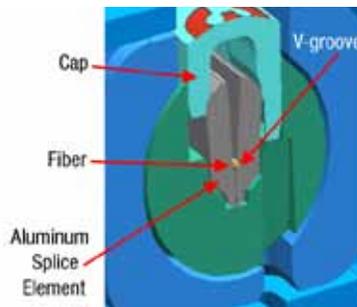
Features	Benefits
Field installation	Always the right cable length with no cable slack to store
Multiple cable configurations	One connector for 1.6 to 3.0 mm cable and FRP cable
No assembly tool	Fast, easy installation
Cable jacket & aramid fiber clamps	Excellent pull out strength
Re-usable	Maximize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



Cross-sectional view of kink resistant cable (1.6, 2.0, 3.0 mm diameter)



Cross-sectional view of FRP Cable (1.6 mm x 2.0 mm, 2.0 mm x 3.0 mm)



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/PC Connector 1.6-3 mm Jacket



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



The 3M™ No Polish Connector Premium Kit with Cleaver 8865-C/PR has all the tools of the regular 8865-C kit but in a larger case that can be hung by a hook, along with a work surface, shard container, tweezers, brush and lint-free wipes in a tub.

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Specifications

Cable diameter	1.6, 2.0, 2.9, 3.0 mm cable & 1.6x2 mm, 2x3 mm FRP cable
Coating diameter	250 µm/900 µm PVC buffer
Fiber type	G.657 ITU compliant fiber with minimum bend radius of 15 mm or less
Wavelengths	1310 nm, 1490 nm, 1550 nm, 1625 nm
Insertion loss (mated to standard SC connector)	<0.3 dB typical
Reflection	-40 dB typical at room temperature < -35 dB for -40°C to 75°C (-40°F to 167°F)
Connection durability, after 100 matings	< 0.2 dB change
Operating temperature	-40°C to 75°C (-40°F to 167°F)
Cable tension (in service)	< 0.2 dB increase at 2.5kg (5.5lb)
Cable Flex, 0.9kgf (2lbf), ±90°, 100 time	< 0.2 dB change
Impact, (4m 13ft.) 8 times	< 0.2 dB change
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 FRP 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.

Ordering Information

Product Number	Product Description	Packaging	3M ID
8802-T/1.6-3	No Polish SC/PC Connector Jacket 1.6-3 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
8865-CL	No Polish Connector Cap-Lifter Tool	25/package	80-6113-8065-2

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