

3M™ No Polish SC/APC Connector 250 μm/ 900 μm

Description

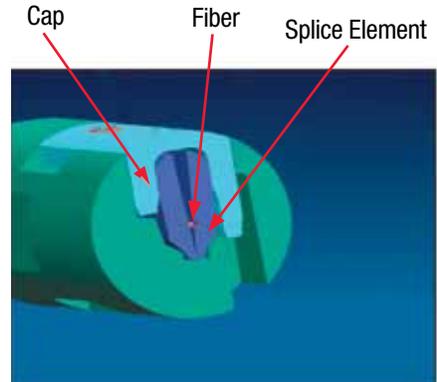
3M No Polish SC/APC Connector (NPC) provides fast, on-site installation of 250 μm and 900 μm singlemode fiber.

The SC/APC compatible connector consists of a factory-polished ferrule assembly and a mechanical splice that is installed with a simple, field tool. It is available with a standard, flat splice configuration or with a keyed, angle splice for excellent back reflection of <-60 dB.

NPC has a bell-shaped boot that is attached to the connector body, virtually minimizing the chance of losing or forgetting to install the boot during the connection. After installation, the boot keeps the fiber from kinking, even during side pull.

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

The NPC SC/APC is RoHS compliant.*



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.



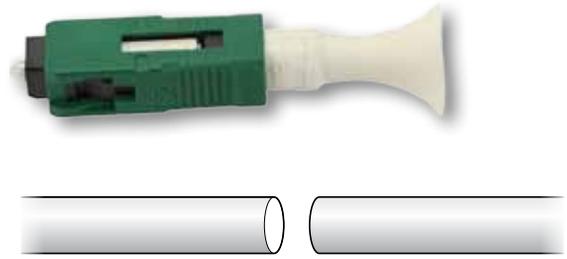
3M™ No Polish SC/APC Connector Angle Splice, 250 μm/900 μm

Features	Benefits
Field installation	Always the right cable length with no cable slack to store
One piece, pre-assembled design	No small, loose parts
Simple assembly tool	Fast, easy installation
Keyed, angle cleave splice	Low reflection, < -60 dB across temperature extremes
900 μm buffer strain relief	Excellent pull out strength
Factory polished stub in ferrule	No on-site polish or adhesives required

Flat Splice Connectors

3M™ No Polish SC/APC Connector Flat Splice Connectors provide excellent performance for digital transmission networks that require a SC/APC termination, such as an Optical Network Terminal that is pre-installed with an SC/APC interface.

SC/APC flat splice connectors provide acceptable analog video performance for indoor applications since the flat splice has a typical reflection of -55 dB for room temperatures.

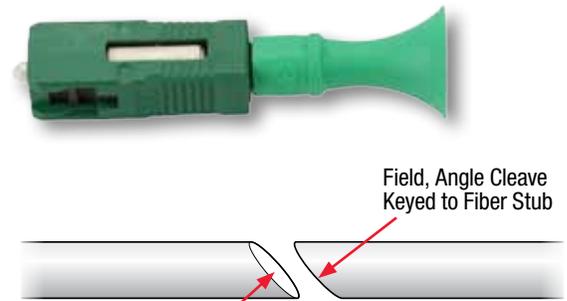


Flat Cleave Splice
Uses standard fiber cleaver for field termination

Angle Splice Connectors

3M™ No Polish SC/APC Connector Keyed, Angle Splice Connectors are specifically designed for analog video transmission with very low optical reflection of < -60 dB across temperature extremes.

Based upon 3M laboratory testing, keying of the angle cleaves is important for optical reflection performance.



Factory Formed Angle
Inside Connector

Keyed, Angle Cleave Splice
Using the 3M™ Fiber Optic Angle Cleaver 2535, a precise angle can be formed on the field fiber end. With the assembly tool, angles of the field fiber and connector fiber are aligned to optimize optical coupling and minimize back reflections.

Assembly Tool for 250/900 μm



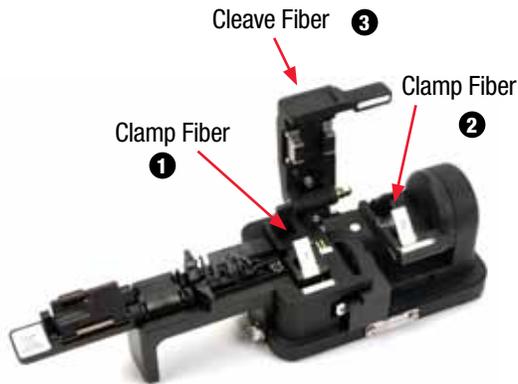
3M™ No Polish SC Connector Assembly Tool is included in every box of 60 connectors. Keeps angle cleaves aligned during installation process.

Specifications	
Fiber diameter	125 μm
Insertion loss	0.3 dB typical
Reflection (Flat splice)	-55 dB typical at room temperature < -35 dB for -40°C to 75°C (-40°F to 167°F)
(Angle splice)	-65 dB typical at room temperature < -60 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)	< 0.5 dB increase at 4.9N (1.1 lbf) for 250 μm < 0.5 dB increase at 6.9N (1.54 lbf) for 900 μm
Side pull (in service)	< 0.5 dB increase at 6.9N (1.54 lbf) for 900 μm
Water immersion, 43°C (109°F), 3 days	< 0.2 dB increase after 24 hour dry time
Dimensions	12.7 x 12.7 x 49 mm (0.5" x 0.5" x 1.9")

Simple Installation Process

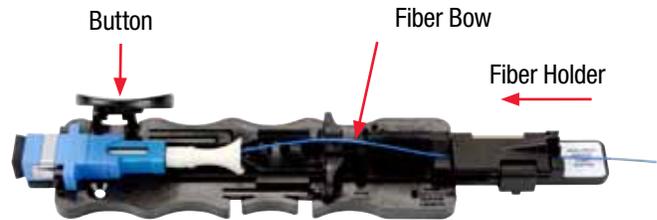
The 3M™ No Polish Connector is easy to install, even for the SC/APC connector with angle splice.

Step 1: Angle Cleave Fiber



After stripping the coating and cleaning the glass, secure the fiber with the two clamps and activate the cleaver in one step by pressing the lever. The fiber holder maintains the angle orientation from the cleaver to the connector in the assembly tool.

Step 2: Assemble Connector



Use the holder to automatically align and to guide the fiber into the connector. Once there is a fiber bow to indicate the fiber is fully inserted, activate the connector by depressing the button.

3M™ Fiber Optic Angle Cleave Kit 2565



The 3M™ Fiber Optic Angle Cleave Kit 2565 includes the 3M™ Fiber Optic Angle Cleaver 2535 and all tools necessary for 8800-APC/AS.

3M™ Connectors, Tools and Kits Description

Product Number	Product Description	Packaging	3M ID
8800-APC/AS	No Polish SC/APC Connector SM Angle Splice 250/900	60/package	80-6113-2627-5
8800-APC/FS	No Polish SC/APC Connector SM Flat Splice 250/900	60/package	80-6113-2626-7
2535	Fiber Optic Angle Cleaver	1/package	80-6113-2423-9
2565	Fiber Optic Angle Cleave Kit with Angle Cleaver	1/package	80-6113-2508-7
8865-C	No Polish Connector Preparation Kit with Flat Cleaver	1/package	80-6113-2379-3



3M™ No Polish Connector Kit 8865-C includes all tools necessary for 8800-APC/FS flat splice connectors.

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