

# 3M™ No Polish Connector SC/APC for FRP Cable

## Description

3M™ No Polish Connector (NPC) SC/APC enables fast, on-site installation of indoor or outdoor FRP Drop Cable with 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 < -60dB.

The no polish connector is tested for premises and FTTP applications for indoor and outdoor locations.



3M™ No Polish Connector  
SC/APC Flat & Angle Splice  
for FRP Drop Cables

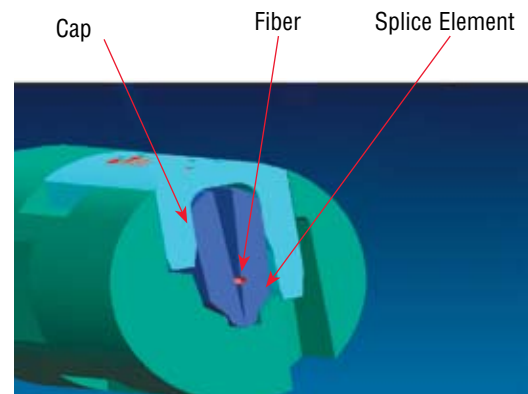
## Flat Splice Connectors

NPC SC/APC 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 a SC/APC interface.

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

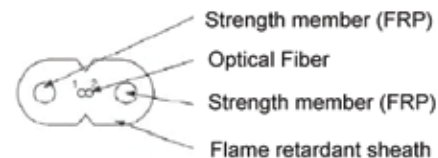
## Angle Splice Connectors

NPC SC/APC keyed, angle splice connectors are specifically designed for analog video transmission with very low optical reflection of < -60dB across temperature extremes.



**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.

## FRP Drop Cable Construction



Flat Cleave Splice  
Uses standard fiber cleaver for field termination



Factory Formed Angle  
Inside Connector

Using the 3M angle cleaver, 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.

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Features	Benefits
Field installation	Always the right cable length with no cable slack to store
Simple assembly tool	Fast, easy installation
Keyed, angle cleave splice	Low reflection, < -60dB across temperature extremes
Cable jacket strain relief	Excellent pull out strength
Factory polished stub in ferrule	No on-site polish or adhesives required

Specifications		
Fiber diameter	125mm	
Insertion Loss	0.2 dB typical	
Reflection	(Flat splice)	-55dB typical < -35dB for -40°C to 75°C (-40°F to 167°F)
	(Angle splice)	-65dB typical < -60dB for -40°C to 75°C (-40°F to 167°F)
Connection durability, after 100 matings	< 0.2dB change	
Operating temperature	-40°C to 75°C (-40°F to 167°F)	
Cable tension (in service)	< 0.2dB increase at 10N (2.2lbf) for 250µm	
Dimensions	(250/900um)	8.0 x 10.5 x 50mm (0.32" x 0.41" x 2.0")

Connectors	Tools and Kits Description	Packaging
8801-APC/FS	NPC SC/APC SM Flat Splice FRP Cable (assy tool in every box)	60/package
8801-APC/AS	NPC SC/APC SM Angle Splice FRP Cable (assy tool in every box)	60/package
2535	Fiber Optic Angle Cleaver	1/package
2565-FRP	Fiber Optic Angle Cleave Kit for FRP Cable	1/package
8865-FRP	NPC Kit with Flat Cleaver for FRP Cable	1/package

2565-FRP Kit includes 2535 Angle Fiber Cleaver and all tools necessary for 8801-APC/AS

8865-FRP Kit includes flat cleaver and all tools necessary for 8801-APC/FS

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