

Communication Markets Division

3M™ No Polish LC/APC Connector

Singlemode and Multimode 250 μm/900 μm

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

The LC/APC compatible connector consists of a factory-polished fiber/ferrule assembly and a mechanical splice that is terminated with a simple and reliable field tool. It is available with a standard, flat splice configuration or with a keyed, angle splice for excellent back reflection of <-60 dB. To maximize field termination yield, the splice in the connector can be opened and reused with a cap, which is integrated into every ferrule dust cap.

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



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

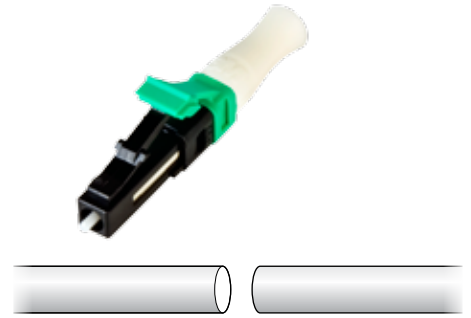
The No Polish Connector is tested for premises and FTTP applications for indoor and outdoor locations. The NPC LC/APC connector is RoHS compliant.*

Features	Benefits
Field termination	Right cable length with virtually no cable slack to store
One-piece, pre-assembled design	No small, loose parts
Simple assembly tool	Fast, easy installation
Fiber holder for assembly	Aligns and guides fiber into connector with optimal insertion force
Keyed, angle cleave splice	Low reflectance, <-60 dB across temperature extremes (For angle splice version only)
900 μm buffer strain relief	Excellent pull out strength
Factory-polished stub in ferrule	No on-site polish or adhesives required
Dove tail	Easily create duplex or quad configuration

Flat Splice Connectors

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

LC/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

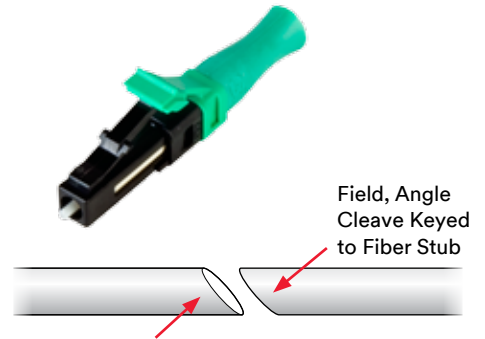
Angle Splice Connectors

3M™ No Polish LC/APC 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, keyed alignment of the angle cleaves is important for optical reflection performance.

3M™ No Polish LC Connector Assembly Tool 8835-AT for 250/900 μm Singlemode fiber

3M™ No Polish LC Connector Assembly Tool 8835-AT is included in every box of 60 connectors. Keeps angle cleaves aligned during termination process.



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



3M™ No Polish SC/APC Connector Specifications

	Singlemode 8830-APC/FS	Singlemode 8830-APC/AS
Insertion Loss (dB) typical	0.3	0.3
Reflectance (dB) typical at room temp	<-55	<-65
Reflectance (dB) max over operating temperature range	<-35	<-60
Operating temperature range (°C)	-40°C to 75°C	-40°C to 75°C
Storage temperature (°C)	-40°C to 85°C	-40°C to 85°C
Connector identification	Green/White	Green/Green
Field termination kit (no power needed)	8865-C or 8865-C/PR	2565

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 3M™ No Polish Connector 8800-APC/AS

3M™ No Polish Connector Kit 8865-C



3M™ No Polish Connector Kit 8865-C for 3M™ No Polish Connector 8830-APC/FS

3M™ No Polish Connector Premium Kit 8865-C/PR



The 3M™ No Polish Connector Premium Kit 8865-C/PR has all of the tools of the 3M™ No Polish Connector Kit 8865-C in a larger case that can hang by a hook and includes a work surface, fiber shard container, tweezers and lint-free wipes

Ordering Information - 3M™ No Polish Connectors

Product Number	Description	Packaging	3M ID
8830-APC/AS	No Polish Connector LC/APC SM Angle Splice 250/900 with assembly tool (green boot)	60/package	80-6113-2777-8
8830-APC/FS	No Polish Connector LC/APC SM Flat Splice 250/900 with assembly tool (white boot)	60/package	80-6113-2778-6
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
8835-AT	No Polish LC Connector Assembly Tool 250/900 μm	1/package	80-6113-2797-6
8865-C	No Polish Connector Preparation Kit with cleaver	1/package	80-6113-2379-3
8865-C/PR	No Polish Connector Premium Kit with cleaver	1/package	80-6113-8783-0
8865	No Polish Connector Kit without cleaver	1/package	80-6113-2378-5
8865/PR	No Polish Premium Premium Kit without cleaver	1/package	80-6114-8296-1

Connectors with 3M™ Easy Cleaver

8830-APC/FS/C	No Polish LC/APC Connector SM flat splice with 3M Easy Cleaver	120/box	80-6114-9416-4
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3M™ Easy Cleaver is conveniently included in select packages of 3M™ No Polish LC Connectors

*"RoHS 2011/65/EU" means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. 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.

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