

# FUSEConnect® Fusion-Spliced, Field-Installable Connectors

AFL's FUSEConnect fusion-spliced, field installable connectors are uniquely designed and feature only four to five components. The factory pre-polished ferrule eliminates the need for polishing, adhesives, and crimping in the field, which minimizes the potential for operator error and expensive connector scrap.

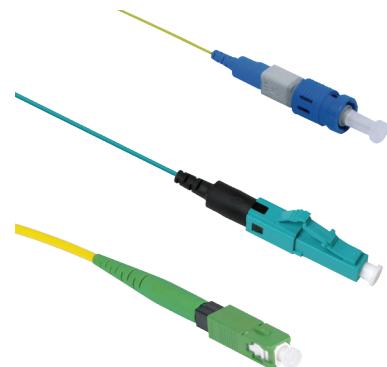
FUSEConnect utilizes a fusion splicer to terminate the connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance for SC/APC and LC/APC configurations. FUSEConnect is compatible with Fujikura fusion splicers and most other fiber holder-based fusion splicing platforms.

## Features

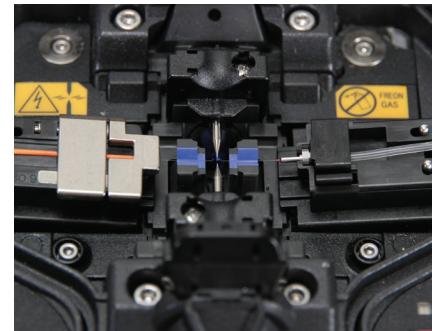
- Field installable
- No adhesives, crimping or polishing
- True APC performance
- Compatible with most fusion splicers

## Applications

- Connectorization in:
  - RF-overlay FTTP networks
  - Cable TV backbone networks
  - Outside plant
  - FTTD
  - MDU FTTP Cabling
- Central office connector replacement
- Data center installation



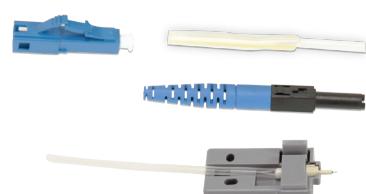
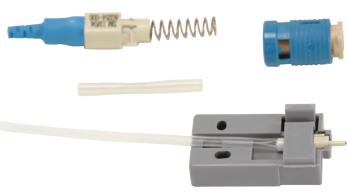
FUSEConnect Connectors (SC, LC, ST)



FUSEConnect in Fusion Splicer

## Specifications

PARAMETER	VALUE
Connector Type	SC, LC, ST
Cable Type	900 $\mu$ m, 2 mm, 3 mm, 4.8 mm (SC only)
Polish	APC, UPC, PC
Insertion Loss	SM: 0.15 dB (average), 0.25 dB (maximum) / MM: 0.10 dB (average), 0.25 dB (maximum)
Return Loss	SM: $\leq$ -65 dB (APC), $\leq$ -55 dB (UPC) / MM: $\leq$ -35 dB (PC)



FUSEConnect Kits—ST (blue), SC (green), LC (blue)

continued  
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# FUSEConnect® Fusion-Spliced, Field-Installable Connectors

## Ordering Information

Connector Type	Boot Type	AFL NO.*			
		UPC SM (Blue)	APC SM (Green)	PC 62.5 $\mu$ m MM (Beige)	PC 50 $\mu$ m LOMMF (Aqua) **
SC	900 $\mu$ m	FUSE-SC9SMU-6	FUSE-SC9SMA-6	FUSE-SC9M62-6	FUSE-SC9M50L-6
	3 mm	FUSE-SC3SMU-6	FUSE-SC3SMA-6	FUSE-SC3M62-6	FUSE-SC3M50L-6
	4.8 mm	—	FUSE-SC48SMA-6	—	—
LC	900 $\mu$ m	FUSE-LC9SMU-6	FUSE-LC9SMA-6	FUSE-LC9M62-6	FUSE-LC9M50L-6
	2 mm	FUSE-LC2SMU-6	FUSE-LC2SMA-6	FUSE-LC2M62-6	FUSE-LC2M50L-6
ST	900 $\mu$ m	FUSE-ST9SMU-6	—	FUSE-ST9M62-6	FUSE-ST9M50L-6
	2 mm	FUSE-ST2SMU-6	—	FUSE-ST2M62-6	FUSE-ST2M50L-6
	3 mm	FUSE-ST3SMU-6	—	FUSE-ST3M62-6	FUSE-ST3M50L-6

\* AFL NO. is for one pack of 6 pieces

\*\* Laser Optimised MM Fiber (LOMMF) Compatible with OM2, OM3 and OM4 fibers.

## Temperature Specifications

Temperature Range	
Operating Temperature	-40°C to +75°C