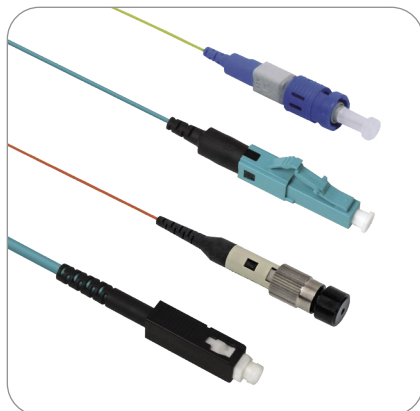
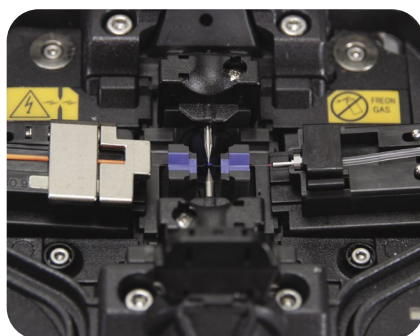


Optical Connectivity



FUSEConnect Connectors (SC, FC, LC, ST)



FUSEConnect in Fusion Splicer

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

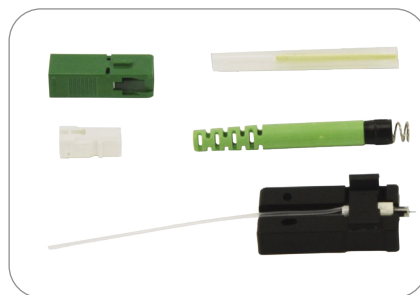
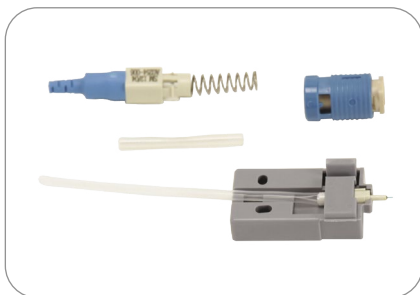
- Field installable
- No adhesives, crimping or polishing
- True APC performance
- Compatible with most fusion splicers

Applications

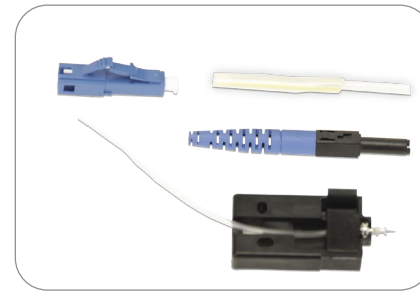
- Connectorization in:
 - RF-overlay FTTP networks
 - Cable TV backbone networks
 - Outside plant
 - FTTH
 - MDU FTTP Cabling
- Central office connector replacement
- Data center installation

Specifications

| PARAMETER | VALUE |
|----------------|---|
| Connector Type | SC, LC, FC, ST |
| Cable Type | 900 μ 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)





FUSEConnect® Fusion-Spliced, Field-Installable Connectors

Ordering Information

| CONNECTOR TYPE | BOOT TYPE | AFL NO.* | | | | |
|----------------|-----------|---------------|----------------|-----------------------|---------------------|--------------------------|
| | | UPC SM (Blue) | APC SM (Green) | PC 62.5 µm MM (Beige) | PC 50 µm MM (Black) | PC 50 µm LOMMF (AQUA) ** |
| SC | 900 µm | FUSE-SC9SMU-6 | FUSE-SC9SMA-6 | FUSE-SC9M62-6 | FUSE-SC9M50-6 | FUSE-SC9M50L-6 |
| | 3 mm | FUSE-SC3SMU-6 | FUSE-SC3SMA-6 | FUSE-SC3M62-6 | FUSE-SC3M50-6 | FUSE-SC3M50L-6 |
| | 4.8 mm | — | FUSE-SC48SMA-6 | — | — | — |
| LC | 900 µm | FUSE-LC9SMU-6 | FUSE-LC9SMA-6 | FUSE-LC9M62-6 | FUSE-LC9M50-6 | FUSE-LC9M50L-6 |
| | 2 mm | FUSE-LC2SMU-6 | FUSE-LC2SMA-6 | FUSE-LC2M62-6 | FUSE-LC2M50-6 | FUSE-LC2M50L-6 |
| FC | 900 µm | FUSE-FC9SMU-6 | FUSE-FC9SMA-6 | FUSE-FC9M62-6 | FUSE-FC9M50-6 | FUSE-FC9M50L-6 |
| | 2 mm | FUSE-FC2SMU-6 | — | FUSE-FC2M62-6 | FUSE-FC2M50-6 | FUSE-FC2M50L-6 |
| | 3 mm | FUSE-FC3SMU-6 | — | FUSE-FC3M62-6 | FUSE-FC3M50-6 | FUSE-FC3M50L-6 |
| ST | 900 µm | FUSE-ST9SMU-6 | — | FUSE-ST9M62-6 | FUSE-ST9M50-6 | FUSE-ST9M50L-6 |
| | 2 mm | FUSE-ST2SMU-6 | — | FUSE-ST2M62-6 | FUSE-ST2M50-6 | FUSE-ST2M50L-6 |
| | 3 mm | FUSE-ST3SMU-6 | — | FUSE-ST3M62-6 | FUSE-ST3M50-6 | FUSE-ST3M50L-6 |

* AFL NO. is for one pack of 6 pieces

** Laser Optimized MM Fiber (LOMMF) compatible with OM3 and OM4 fibers

Temperature Specifications

| TEMPERATURE RANGE | |
|-----------------------|----------------|
| Operating Temperature | -40°C to +75°C |



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