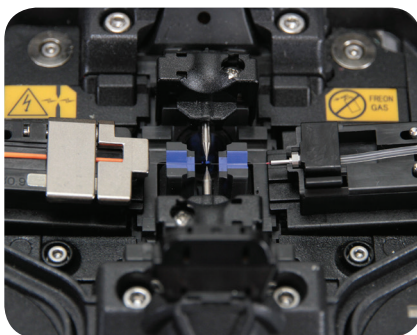




FuseConnect Connectors (SC, FC, LC, ST)



FuseConnect in Fusion Splicer



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

## 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, and is compliant to GR-326-CORE. 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
- MM compliant to TIA/EIA568C.3
- 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 $\mu$ m, 2 mm, 3 mm   |
| Polish                | APC, UPC, PC  |
| Insertion Loss        | SM: 0.15 dB (average), 0.3 dB (maximum) / MM: 0.10 dB (average), 0.3 dB (maximum) |
| Return Loss           | SM: $\leq$ -65 dB (APC), $\leq$ -55 dB (UPC) / MM: $\leq$ -35 dB (PC)             |
| Operating Temperature | -40°C to +75°C  |

### Ordering Information

| CONN. TYPE | BOOT TYPE   | AFL NO.*      |                |                            |                          |                               |
|------------|-------------|---------------|----------------|----------------------------|--------------------------|-------------------------------|
|            |             | UPC SM (Blue) | APC SM (Green) | PC 62.5 $\mu$ m MM (Beige) | PC 50 $\mu$ m MM (Black) | PC 50 $\mu$ m LOMMF (AQUA) ** |
| SC         | 900 $\mu$ m | 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                |
| LC         | 900 $\mu$ m | 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 $\mu$ m | FUSE-FC9SMU-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 $\mu$ m | 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