

3M™ Hot Melt Connectors are among the most popular with contractors because of their reliability and ease of use. They come pre-loaded with an adhesive with a very long shelf life, and the termination procedure provides the ability to reheat and reposition the fiber in the termination process. This easy-to-install field mount connector provides reliable performance in indoor and outdoor applications and has no internal splice.

All 3M hot melt connectors can be terminated using the same 3M™ Hot Melt Termination Kit 6366/6362. 3M™ LC Connectors also require the 3M™ LC Hot Melt Expansion Kit 6650-LC which includes a weighted polishing jig to provide a PC centered apex end face.

Applications

The 3M Hot Melt Connectors are specifically designed for installation in singlemode and multimode fiber data transport systems. These include building and campus Local Area Network (LAN) backbones, factory and industrial control systems, traffic control systems and enterprise networks.

Hot Melt Connectors are fast and reliable for termination of multifiber distribution and breakout cables. They can be used for termination and restoration of patch cords.

The applications for the hot melt connector are based on TIA-568 standards for performance over environmental extremes.

3M™ Hot Melt Connectors

- Singlemode and multimode local area networks and campus wiring
- Singlemode data centers and CATV headend
- Environmental performance exceeding EIA/TIA 568-B.3
- Singlemode reflection performance of -55dB at temperature extremes
- Available in LC, ST, SC, FC singlemode and multimode connectors
- Provides reliable performance in a wide range of indoor and outdoor applications



3M™ Multimode Duplex LC Connector 6600



3M™ Multimode ST Connector 6100



3M™ Singlemode SC Connector 8300



3M™ Singlemode FC Connector 8200

3M™ Hot Melt Connectors – LC, ST, SC, FC

| Features | Benefits |
|--|--|
| Meets TIA/EIA 568-B.3 standard for indoor and outdoor applications | Long term reliability |
| Ease of use on backbone and horizontal cable | Quick termination in <2 minutes; high yield |
| Allows custom length cable assemblies to be built on site | Enhances cable management in telecom room or central office Minimizes cable slack |
| Adhesive fiber retention | Not dependent on mechanical retention alone |
| 3M field polishing process produces <55dB reflection, singlemode | Reliable in high speed transmission |
| Pre-loaded adhesive | No epoxy mixing or mess; no pot life |
| Re-heatable adhesive | Allows fiber repositioning |
| Blue dot of adhesive after fiber insertion | Easy to see when polishing is complete |

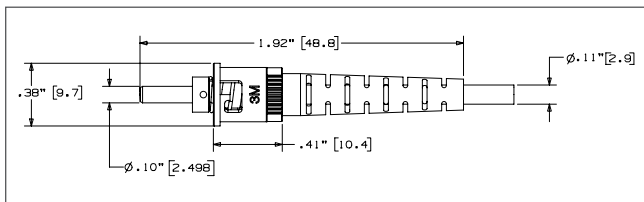
| Specifications | Multimode | Singlemode |
|-------------------------------|--|--|
| Product Number | 6100 ST Series 6200 FC Series 6300 SC Series 6600 LC Series | 8100 ST Series 8200 FC Series 8300 SC Series 8600 LC Series |
| Testing Specification | TIA/EIA 568-B.3 | TIA/EIA 568-B.3 |
| Operating Temperature | -10°C to +60°C (+14°F to +140°F) | -10°C to +60°C (+14°F to +140°F) |
| Attenuation* | <0.2dB typical | <0.2dB typical |
| Reflection* | -25dB typical | -55dB typical |
| Mating Durability 300 Matings | <0.2dB change | <0.2dB change |
| Storage Temperature | -40°C to +85°C (-40°F to +185°F) | -40°C to +85°C (-40°F to +185°F) |
| Materials and Identification | | |
| Ferrule | Zirconia ceramic | Zirconia ceramic |
| Housing Body | Nickel plated zinc (ST) Engineered resin (LC, SC, FC) | Nickel plated zinc (ST) Engineered resin (LC, SC, FC) |
| Boot | Thermoplastic elastomer | Thermoplastic elastomer |
| Flame Retardancy | UL-94 V-0 | UL-94 V-0 |
| Adhesive | Pre-loaded blue hot melt | Pre-loaded blue hot melt |

*Multimode connectors tested at 850nm and 1300nm.

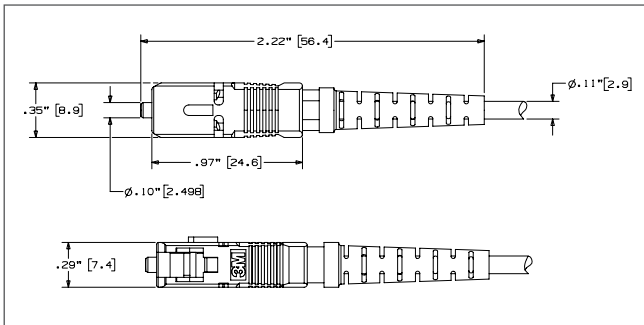
*Singlemode connectors tested at 1310nm and 1550nm.

Long-term Reliability

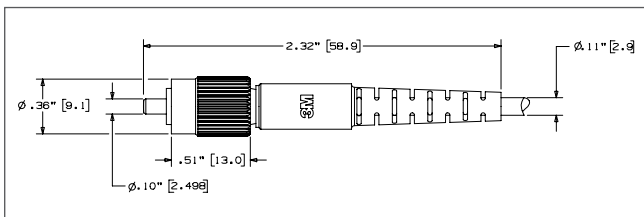
3M™ ST Hot Melt Connector



3M™ SC Hot Melt Connector



3M™ FC Hot Melt Connector

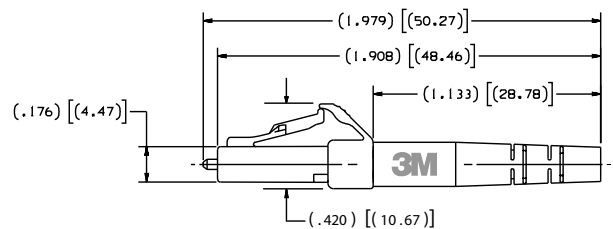


Note: ST hotmelt connectors are packaged for termination of 900 micron buffer, 2.4 mm and 3.0 mm jacketed cable.

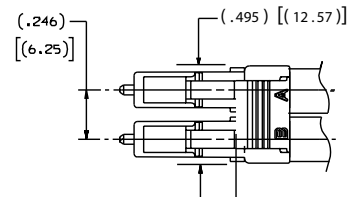
SC and FC hot melt connectors are packaged for termination of 900 micron buffer and 3.0 mm jacketed cable.

For SC and FC termination of 2.4 mm jacketed cable, order the additional SC-FC Crimp Ring.

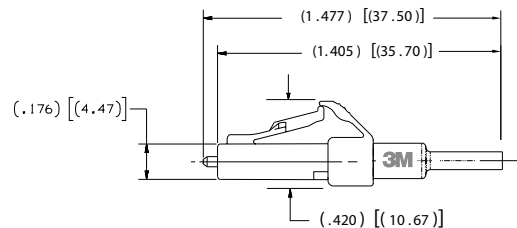
3M™ LC Hot Melt Connector



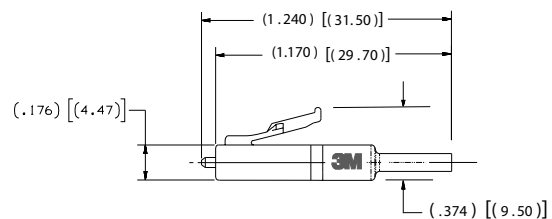
LC UNIBODY DUPLEX CONNECTOR ASSEMBLIES
WITH JACKETED CABLE BOOT



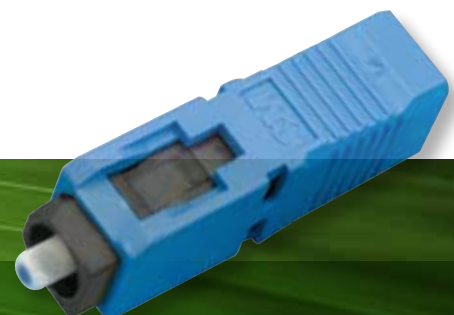
LC UNIBODY DUPLEX CONNECTOR ASSEMBLIES



LC UNIBODY DUPLEX CONNECTOR ASSEMBLIES
WITH UNJACKETED CABLE BOOT



LC BTW CONNECTOR
(BEHIND THE WALL)
UNJACKETED FIBER AND SIMPLEX ONLY



Ordering Information

| Product Number | Description | Minimum Order | Packaging |
|--------------------------|---|---------------|---------------------|
| 3M™ LC Connectors | | | |
| 6600-S | MM hot melt simplex 900 BTW, white boot | 60 | 1/bag, 60/carton |
| 6602-S | MM hot melt simplex 1.6-2.0 cable, white boot | 60 | 1/bag, 60/carton |
| 6603-S | MM hot melt simplex 2.4-3.0 cable, white boot | 60 | 1/bag, 60/carton |
| 6601-D | MM hot melt duplex 900 buffer, white/beige boots | 60 | 1/bag, 60/carton |
| 6602-D | MM hot melt duplex 1.6-2.0 cable, white/beige boots | 60 | 1/bag, 60/carton |
| 6603-D | MM hot melt duplex 2.4-3.0 cable, white/beige boots | 60 | 1/bag, 60/carton |
| 6604-D | MM hot melt duplex 900 buffer, red/black boots | 60 | 1/bag, 60/carton |
| 6605-D | MM hot melt duplex 1.6-2.0 cable, red/black boots | 60 | 1/bag, 60/carton |
| 6606-D | MM hot melt duplex 2.4-3.0 cable, red/black boots | 60 | 1/bag, 60/carton |
| 8600-S | SM hot melt simplex 900 BTW, white boot | 60 | 1/bag, 60/carton |
| 8602-S | SM hot melt simplex 1.6-2.0 cable, white boot | 60 | 1/bag, 60/carton |
| 8603-S | SM hot melt simplex 2.4-3.0 cable, white boot | 60 | 1/bag, 60/carton |
| 8601-D | SM hot melt duplex 900 buffer, white/beige boots | 60 | 1/bag, 60/carton |
| 8602-D | SM hot melt duplex 1.6-2.0 cable, white/beige boots | 60 | 1/bag, 60/carton |
| 8603-D | SM hot melt duplex 2.4-3.0 cable, white/beige boots | 60 | 1/bag, 60/carton |
| 3M™ ST Connectors | | | |
| 6100-W | MM hot melt connector, white boot | 60 | 1/bag, 60/carton |
| 6100-B | MM hot melt connector, black boot | 60 | 1/bag, 60/carton |
| 6100-R | MM hot melt connector, red boot | 60 | 1/bag, 60/carton |
| 6100-W1K | MM hot melt connector, white boot | 1,000 | 1/bag, 1,000/carton |
| 6100-B1K | MM hot melt connector, black boot | 1,000 | 1/bag, 1,000/carton |
| 6100-R1K | MM hot melt connector, red boot | 1,000 | 1/bag, 1,000/carton |
| 8100-YS | SM hot melt connector, yellow boot | 60 | 1/bag, 60/carton |
| 8100-Y1K | SM hot melt connector, yellow boot | 1,000 | 1/bag, 1,000/carton |
| 3M™ FC Connectors | | | |
| 6200 | MM hot melt connector, white boot | 60 | 1/bag, 60/carton |
| 8200-W | SM hot melt connector, white boot | 60 | 1/bag, 60/carton |
| 3M™ SC Connectors | | | |
| 6300-W | MM hot melt connector, white boot | 60 | 1/bag, 60/carton |
| 6300-W1K | MM hot melt connector, white boot | 1,000 | 1/bag, 1,000/carton |
| 6300-B1K | MM hot melt connector, black boot | 1,000 | 1/bag, 1,000/carton |
| 6300-R1K | MM hot melt connector, red boot | 1,000 | 1/bag, 1,000/carton |
| 8300 | SM hot melt connector, white boot | 60 | 1/bag, 60/carton |
| 8300-W1K-S | SM hot melt connector, white boot | 1,000 | 1/bag, 1,000/carton |
| Crimp Ring | | | |
| SC-FC | Crimp Ring 2.4 mm red 60-bulk | 1 package | 60/package |

3M™ Hot Melt Termination Kits

The 3M™ Hot Melt Termination Kits 6366 (120V oven) and 6362 (230V oven) contain all materials necessary to terminate 3M SC, ST, and FC hot melt connectors, both singlemode and multimode. An LC expansion kit makes it easy to incorporate the LC hot melt process into one kit.



3M™ LC Hot Melt Expansion Kit 6650-LC



3M™ Hot Melt Termination Kits 6366 and 6362

The 3M™ LC Hot Melt Expansion Kit 6650-LC is used in addition to the 6366/6362 hot melt termination kits. The LC expansion kit contains the tools needed to terminate 3M™ LC Hot Melt Connectors that are not included in the 6366/6362 termination kits.



3M™ Hot Melt Polishing Machine 6851-E

The 3M™ Hot Melt Polishing Machine 6851-E features a fast, simple step polishing technology, used for multimode 3M Hot Melt connectors. This machine is used to polish two hot melt connectors at a time—SC, ST or FC—saving time and labor over hand polishing.

| Features | Benefits |
|--|---|
| Premium microscope with oblique and coaxial lighting | Better view of fiber end face inspection |
| Roll-up tool pouch | Tools are organized and accessible |
| Universal hot melt holders | Fewer parts to carry, holds cable more securely |
| Instruction CD | Organized into video segments for quick reference |

Ordering Information - Hot Melt Termination Kits

| Product Number | Description | Minimum Order | Packaging |
|----------------|---|---------------|-----------|
| 6366 | Hot melt termination kit for ST, FC, SC hot melt connectors, 120V | 1 | 1 each |
| 6362 | Hot melt termination kit for ST, FC, SC hot melt connectors, 230V | 1 | 1 each |
| 6650-LC | LC Hot Melt expansion kit (required with 6366/6362) | 1 | 1 each |