# **3M**

# ST, FC, SC Hot Melt Connectors for Indoor/Outdoor Applications

Single-mode and Multimode



## 3M Hot Melt Connectors can be used in high temperature environments.

3M Hot Melt Connectors have a proven record of high performance and ease of use in local area networks around the world. These connectors are now qualified to TIA/EIA 568B standards for both indoor and outdoor use, including temperatures as high as 85°C (185°F). Drawing on 70 years of adhesive expertise and 40 years of experience in ceramic technology, 3M provides the most convenient, reliable and easy-to-install connectors on the market.

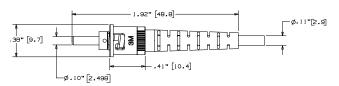
Preloaded adhesive means no syringe and no epoxy mixing is needed, saving installation time. The PC zirconia ceramic ferrule provides superior optical contact and durability. The ability to reheat and reposition fiber within the connector means virtually all connections are successful, saving time and money. And one kit provides everything needed to terminate ST, FC, and SC connectors for both single-mode and multimode applications.

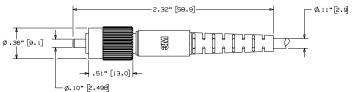
| Features   | Benefits   |
|--|--|
| Preloaded Hot Melt adhesive                                      | Easy to use, no epoxy to mix, fewer consumables          |
| Terminates in less than 2 minutes                                | Saves time and labor                                     |
| Meets TIA/EIA 568B standards for indoor and outdoor applications | Reliable performance                                     |
| Reheatable adhesive allows fiber repositioning                   | High yield reduces waste of connectors and time          |
| Pre-radiused PC zirconia ceramic ferrule                         | Assures optical contact and stability up to 85°C (185°F) |
| Universal Kit contains consumables for up to 400 connectors*     | Eliminates confusion and lost time                       |

<sup>\*</sup>Alcohol is not included. Connectors are sold separately.

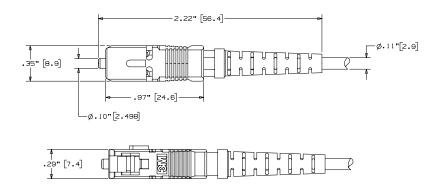
#### **ST Hot Melt Connector**

#### **FC Hot Melt Connector**





#### **SC Hot Melt Connector**



## **Specifications**

| Product<br>Number                  | 6100 MM<br>ST                       | 8100 SM<br>ST        | 6200 MM<br>FC                       | 8200 SM<br>FC      | 6300 MM<br>SC                       | 8300 SM<br>SC        |
|------------------------------------|-------------------------------------|----------------------|-------------------------------------|--------------------|-------------------------------------|----------------------|
| Operating<br>Temperature           | -40°C to +85°C<br>(-40°F to +185°F) |                      | -40°C to +85°C<br>(-40°F to +185°F) |                    | -40°C to +85°C<br>(-40°F to +185°F) |                      |
| Attenuation*                       | <0.2dB                              | typical              | <0.2dB                              | typical            | <0.2dB                              | typical              |
| Reflection*                        | -25dB<br>typical                    | -40dB<br>typical     | -25dB<br>typical                    | -40dB<br>typical   | -25dB<br>typical                    | -40dB<br>typical     |
| Mating Durability<br>(500 matings) | <0.2dB change                       |                      | <0.2dB                              | change             | <0.2dB                              | change               |
| Storage Temperature                |                                     | o +85°C<br>o +185°F) |                                     | + 85°C<br>+ 185°F) |                                     | o +85°C<br>o +185°F) |
| Testing Specification              | TIA/EI/                             | A 568B               | TIA/EI/                             | A 568B             | TIA/EI/                             | A 568B               |
| Materials and Identification       |                                     |                      |                                     |                    |                                     |                      |
| Ferrule                            | Zirconia Ceramic                    |                      | Zirconia Ceramic                    |                    | Zirconia Ceramic                    |                      |
| Housing Body                       | Nickel pl                           | ated zinc            | Enginee                             | red resin          | Enginee                             | red resin            |
| Boot                               | Thermoplas                          | tic elastomer        | Thermoplas                          | tic elastomer      | Thermoplas                          | tic elastomer        |
| Flame Retardancy                   | UL-94 V-0                           |                      | UL-94 V-0                           |                    | UL-94 V-0                           |                      |
| Adhesive                           | Blue dot                            | on ferrule           | Blue dot                            | on ferrule         | Blue dot                            | on ferrule           |

<sup>\*</sup>Multimode connectors tested at 850nm and 1300nm.

Single-mode connectors tested at 1310nm and 1550nm.

### **Ordering Information**

| Model Number           | Description   | Packaging             |  |  |
|------------------------|---|-----------------------|--|--|
| ST Connectors*         |   |                       |  |  |
| 6100-W                 | ST MM Hot Melt Connector, white boot                            | 1/bag, 60/carton      |  |  |
| 6100-B                 | ST MM Hot Melt Connector, black boot                            | 1/bag, 60/carton      |  |  |
| 6100-R                 | ST MM Hot Melt Connector, red boot                              | 1/bag, 60/carton      |  |  |
| 6100-W5-12             | ST MM Hot Melt Connector, white boot                            | 12/bag, 5 bags/carton |  |  |
| 6100-B5-12             | ST MM Hot Melt Connector, black boot                            | 12/bag, 5 bags/carton |  |  |
| 6100-R5-12             | ST MM Hot Melt Connector, red boot                              | 12/bag, 5 bags/carton |  |  |
| 6100-W1K               | ST MM Hot Melt Connector, white boot                            | 1,000/carton          |  |  |
| 6100-B1K               | ST MM Hot Melt Connector, black boot                            | 1,000/carton          |  |  |
| 6100-R1K               | ST MM Hot Melt Connector, red boot                              | 1,000/carton          |  |  |
| 8100-YS                | ST SM Hot Melt Connector, yellow boot                           | 1/bag, 60/carton      |  |  |
| 8100-Y1K               | ST SM Hot Melt Connector, yellow boot                           | 1,000/carton          |  |  |
| FC Connectors*         |   |                       |  |  |
| 6200                   | FC MM Hot Melt Connector, white boot                            | 1/bag, 60/carton      |  |  |
| 8200-W                 | FC SM Hot Melt Connector, white boot                            | 1/bag, 60/carton      |  |  |
| SC Connectors*         |   |                       |  |  |
| 6300-W                 | SC MM Hot Melt Connector, white boot                            | 1/bag, 60/carton      |  |  |
| 6300-W5-12             | SC MM Hot Melt Connector, white boot                            | 12/bag, 5 bags/carton |  |  |
| 6300-B5-12             | SC MM Hot Melt Connector, black boot                            | 12/bag, 5 bags/carton |  |  |
| 6300-R5-12             | SC MM Hot Melt Connector, red boot                              | 12/bag, 5 bags/carton |  |  |
| 6300-W1K               | SC MM Hot Melt Connector, white boot                            | 1,000/carton          |  |  |
| 6300-B1K               | SC MM Hot Melt Connector, black boot                            | 1,000/carton          |  |  |
| 6300-R1K               | SC MM Hot Melt Connector, red boot                              | 1,000/carton          |  |  |
| 8300                   | SC SM Hot Melt Connector, white boot                            | 1/bag, 60/carton      |  |  |
| 8300-W1K               | SC SM Hot Melt Connector, white boot                            | 1,000/carton          |  |  |
| Field Termination Kits |   |                       |  |  |
| 6355                   | Hot Melt Termination Kit for 3M ST, FC, SC Hot Melt Connectors, | 120V                  |  |  |
| 6351                   | Hot Melt Termination Kit for 3M ST, FC, SC Hot Melt Connectors, | 230V                  |  |  |
| Accessories            |   |                       |  |  |
| 6850-A                 | One Step Polishing Machine                                      |                       |  |  |

<sup>\*</sup>Bulk packaging offers convenient packaging for cable assembly shops. Various color boots (red, blue, and white) and various length boots also are available in bulk.

A complete line of ST, FC and SC couplings is available. For more information, please contact a 3M sales representative at 800-426-8688.

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