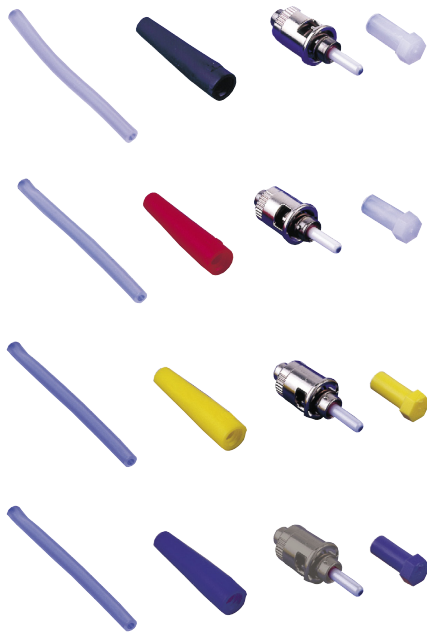




# 3M™ Fibre Optic Connectivity ST-Connectors and Couplings



The 3M ST-Connector product line provides high repeatability and low light loss for premises, LAN and telco applications. All 3M connectors and couplings meet the corresponding IEC and CENELEC component or cabling standards. The 3M ST connectors are supplied with a high quality PC finish on zirconium ceramic ferrules. Besides standard epoxy connectors, the 3M ST connectors are available in single-mode and multimode preloaded with Hot Melt adhesive for field terminations in less than two minutes. The ST connector is also available as the 3M Crimplok™ Connector. The Crimplok™ connector combines the speed of non adhesive connectors with the high performance characteristics of epoxy or Hot Melt connectors. Crimplok™ connectors are the ideal solution, when there is no electrical power source or for installations in tight workspaces.



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## Features

### Epoxy Bayonet ST Connectors

- According to IEC / CENELEC standards
- Closed Bayonet Nut
- Zirconium ceramic ferrule
- Pre-radiused PC-Finish

### Hot Melt Bayonet ST Connectors Pre-loaded Hot Melt adhesive versions

- Fast cure time
- No crimping required
- Unlimited adhesive shelf life
- Zirconia ceramic ferrule
- Pre-radiused PC-Finish

### Crimplok Connectors Non-adhesive design

- No set-up time required
- No electrical power required
- Zirconia ceramic ferrule
- Pre-radiused PC-Finish

## Benefits

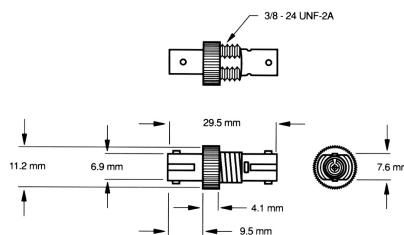
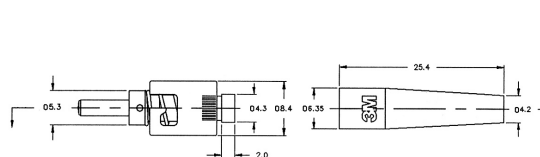
- Rugged reliable performance
- Improved mechanical stability
- High performance over temperature range
- Consistent performance with low reflection
- No epoxy to mix, no shelf life, no waste
- Quicker installation, saves time
- Fewer tools, saves time
- Eliminates outdated epoxy inventory
- High performance over temperature range
- Consistent performance with low reflection
- Clean and simple terminations
- Saves installation time
- Installation anywhere, ideal for “quick fix”
- High performance over temperature range
- Consistent performance with low reflection

## Specifications:

| 3M™ ST Connectors  | Hot Melt                                |  | Crimplok™                         |                                   | Epoxy                   |                         |
|--|---|--|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Product Number   | 6100                                    | 8100YS                                   | 6901                              | 8901                              | 6105                    | 8106 8107               |
| Connector Type   | Hot melt Ceramic                        | Hot melt Ceramic                         | Crimplok Ceramic                  | Crimplok Ceramic                  | Epoxy Ceramic           | Epoxy Ceramic           |
| Ferrule hole size (µm) for nominal size 125 µm                     | 125                                     | 126                                      | 125                               | 126                               | 125                     | 125 126                 |
| Insertion Loss (dB) typical field mount (one-mated pair) @ 1300 nm | <0,2                                    | <0,2                                     | <0,2                              | <0,2                              | <0,2                    | <0,3                    |
| Reflection (dB) typical field mount                                | -25                                     | -40                                      | -25                               | -40                               | -25                     | -45                     |
| Connecteur durability (dB) change after 500 matings                | <0,2                                    | <0,2                                     | <0,3                              | <0,3                              | <0,2 / 1000 matings     | <0,2                    |
| Operating temperature  | -40° to 85° C                           | -40° to 85° C                            | -10° to 60° C                     | -10° to 60° C                     | -40° to 85° C           | -40° to 85° C           |
| Storage temperature  | -40° to 85° C                           | -40° to 85° C                            | -40° to 85° C                     | -40° to 85° C                     | -40° to 85° C           | -40° to 85° C           |
| Testing Specifications*  | ISO/IEC                                 | ISO/IEC                                  | ISO/IEC                           | ISO/IEC                           | ISO/IEC                 | ISO/IEC                 |
| Material   |   |  |                                   |                                   |                         |                         |
| Connector ferrule  | Zirconia ceramic                        | Zirconia ceramic                         | Zirconia ceramic                  | Zirconia ceramic                  | Zirconia ceramic        | Zirconia ceramic        |
| Connector housing  | Nickel plated zinc                      | Nickel plated zinc                       | Thermoplastic polymer             | Thermoplastic polymer             | Nickel plated zinc      | Nickel plated zinc      |
| Boot   | Thermoplastic elastomer                 | Thermoplastic elastomer                  | Thermoplastic elastomer           | Thermoplastic elastomer           | Thermoplastic elastomer | Thermoplastic elastomer |
| Flame retardancy   | UL-94 V-0                               | UL-94 V-0                                | UL-94 V-0                         | UL-94 V-0                         | UL-94 V-0               | UL-94 V-0               |
| Connector identification **  | Blue dot one end of ferrule, White Boot | Blue dot one end of ferrule, Yellow Boot | Black Body Beige Shell, Grey Boot | Black Body Beige Shell, Blue Boot | Black Backbone          | Black Backbone          |
| Field termination kit*** 230 V                                     | 6361                                    | 6361                                     | Crimplok kit                      | Crimplok kit                      | 8361                    | 8361                    |

\* ISO 11801, EN50173, \*\* Note: other boot colours are available, \*\*\* See separate datasheet for Termination Kits

| 3M™ ST Couplings      | Multimode          |                          | Singlemode               |                    |
|-----------------------|--------------------|--------------------------|--------------------------|--------------------|
| Product Number        | 6112               | 6113                     | 8113                     | 8119               |
| Description           | Threaded coupling  | Duplex threaded coupling | Duplex threaded coupling | Threaded coupling  |
| Operating temperature | -40° to 85° C      | -40° to 85° C            | -40° to 85° C            | -40° to 85° C      |
| Material              |                    |                          |                          |                    |
| Housing               | Nickel plated zinc | Nickel plated zinc       | Nickel plated zinc       | Nickel plated zinc |
| Sleeve                | Phosphor bronze    | Phosphor bronze          | Zirconia ceramic         | Zirconia ceramic   |



## Ordering information:

| ST Connectors  | Multimode        |                  | Singlemode       |                  | Singlemode    |               |
|----------------|------------------|------------------|------------------|------------------|---------------|---------------|
| Ref.-No.       | 6100             | 8100YS           | 6901             | 8901             | 6105          | 8106 8107     |
| Connector Type | Hot melt Ceramic | Hot melt Ceramic | Crimplok Ceramic | Crimplok Ceramic | Epoxy Ceramic | Epoxy Ceramic |
| Packaging      | 1/pkg. 60/cs     | 1/pkg. 60/cs     | 1/pkg. 60/cs     | 1/pkg. 60/cs     | 1/pkg. 60/cs  | 1/pkg. 60/cs  |
| Minimum order* | 60 each          | 60 each          | 60 each          | 60 each          | 60 each       | 60 each       |

\* Bulk Packages of 1000 each are available upon request

| ST Couplings   | Multimode    |              | Singlemode   |              |
|----------------|--------------|--------------|--------------|--------------|
| Ref.-No.       | 6112         | 6113         | 8113         | 8119         |
| Packaging      | 1/bag. 60/cs | 1/bag. 60/cs | 1/bag. 60/cs | 1/bag. 60/cs |
| Minimum order* | 60 each      | 60 each      | 60 each      | 60 each      |

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