



# Crimplik™ Connectors

## Quick, easy installation and superior performance

To successfully design, install or operate today's fiber optic networks, you need components that offer speed and reliability – from the fiber itself all the way down to the connectors. That's why 3M developed a connector that combines the speed of non-adhesive connectors with the performance characteristics of epoxy and hot melt connectors. 3M™ Crimplik™ Connectors are the ideal solution for quickly making fiber connections at the desk or for emergency restoration work.

Crimplik connectors were designed to:

- Save time in installation
- Provide rugged, reliable performance, meeting or exceeding current EIA/TIA-568B.3 specifications
- Install cleanly and simply with fewer parts and tools

## Saves time

Available in both SC and ST, single-mode and multimode connector versions, Crimplik connectors are faster to install than epoxy connectors since there is no set-up or curing time. Crimplik connectors do not require special heating tools or ovens, so time spent searching for electrical outlets is eliminated. Polishing the connector is also a simple process that can be performed in seconds.

## Provides reliable performance

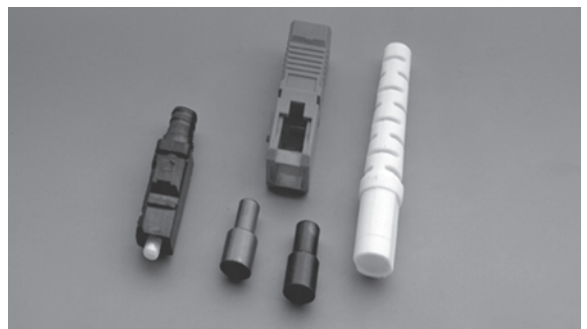
The Crimplik connector incorporates proven 3M malleable metal element fiber gripping technology. There is no fiber splice or second joint inside the connector, so there is no added attenuation at the connection.

When the conformable metal element closes, it grips a length of the fiber, eliminating fiber movement associated with other crimp-style connectors. The strength of the metallic element ensures that Crimplik connectors meet industry standards for temperature and humidity.

The plastic buffer retention insert also prevents fiber movement by gripping the buffer without crushing it when the crimp ring is crimped. On jacketed cable, the crimp ring also grips the Kevlar® strands and



3M™ Crimplik™ ST Connector Multimode



3M™ Crimplik™ SC Connector Single-mode

cable jacket to prevent the fiber connection from breaking when the cable is pulled.

The buffer retention insert and the crimp ring combine to ensure that Crimplik connectors perform extremely well and meet rigorous tensile strength requirements in building wiring applications.

## Installs cleanly and simply

Preparing and installing Crimplik connectors is as simple as the concept behind them.

During installation, the fiber passes through the back end of the connector, through the metallic element and extends beyond the end of the activation tool. Pressing the activation tool locking arm closes the metal element around the fiber. It's that simple.

The few tools required for installing a Crimplik connector can be conveniently stored in a small tool pouch.

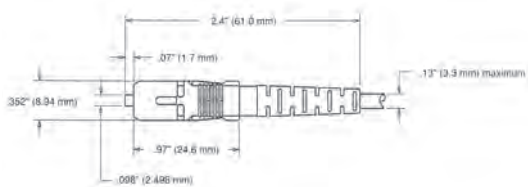
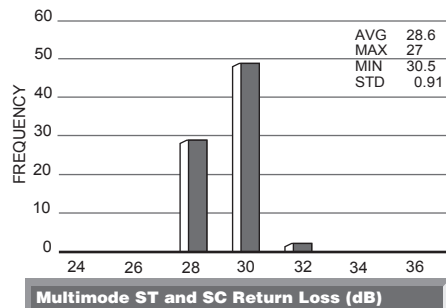
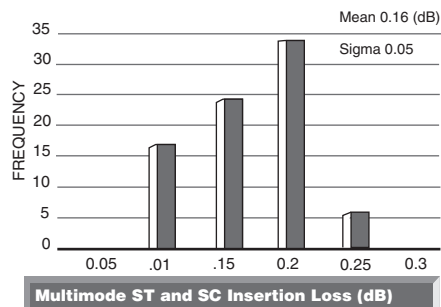
## 3M™ CRIMPLOK™ CONNECTORS

### Features

Easy to install  
Meets EIA/TIA-568A specifications  
Non-adhesive design  
Intermateability with standard connectors  
No workstation setup required  
Minimal tools required  
No electricity required  
Pre-radiused PC zirconia ceramic ferrule

### Benefits

Saves time  
Rugged, reliable performance  
Clean and simple terminations  
Convenience, quick restoration of existing systems  
Saves time and money  
Low-cost kit  
Installation anywhere  
Assured contact of fibers; stability through temperature change; quality performance



3M™ Crimplok™ SC Connector

## 3M™ CRIMPLOK™ SC CONNECTOR MULTIMODE 6900

### Specifications

|   |                                  |
|---|----------------------------------|
| Attenuation @ 1300 mm (dB)                  | <0.2 typical (62.5/125 μm fiber) |
| Reflection (dB)                             | ≤-29 typical                     |
| Operational temperature (cable dependent)   | -10° to 60°C (14° to 140°F)      |
| Storage temperature (unassembled connector) | -40° to 80°C (-40° to 176°F)     |

### Environmental

|                  |   |
|------------------|---|
| Humidity         | Max loss increase < 0.20 dB;<br>Reflection < -25 dB |
| Cold             | Max loss increase < 0.20 dB;<br>Reflection < -25 dB |
| Temperature life | Max loss increase < 0.20 dB;<br>Reflection < -25 dB |

### Mechanical

|                               |   |
|-------------------------------|---|
| Impact                        | Mean loss 0.18 dB; Mean reflection -28 dB |
| Cyclic flex                   | Mean loss 0.16 dB; Mean reflection -28 dB |
| Twist                         | Mean loss 0.16 dB; Mean reflection -28 dB |
| Cable retention               | Mean loss 0.16 dB; Mean reflection -28 dB |
| Mating durability 500 matings | <0.22 change                              |

### Materials

|                            |                                     |
|----------------------------|-------------------------------------|
| Connector ferrule          | Zirconia ceramic                    |
| Connector body and housing | Thermoplastic polymer               |
| Boot                       | Elastomeric resin                   |
| Identification             | Black body, beige shell, black boot |
| Fiber size                 | 125 μm multimode                    |
| Couplings                  |                                     |
| Housing                    | Engineering thermoplastic           |
| Sleeve                     | Ceramic                             |

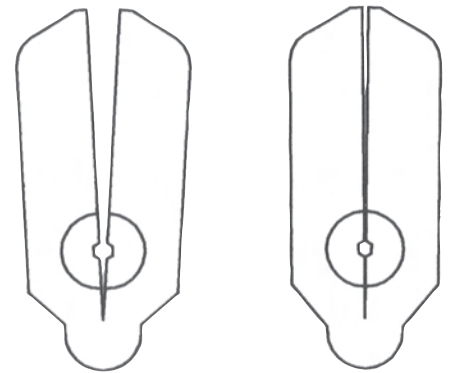
Note: Testing performed on cable assemblies with 3 mm jacketed cable and 900 μm buffered fiber.

# 3M™ CRIMPLOK™ ST CONNECTOR MULTIMODE 6901

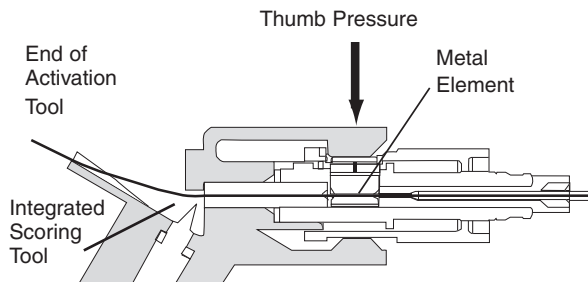
## Specifications

|  |   |
|--|---|
| Attenuation @ 1300 nm (dB)                     | <0.2 typical  |
| Reflection (dB)                                | ≤-29 typical  |
| Operational temperature<br>(cable dependent)   | -10° to 60°C (14° to 140°F)                         |
| Storage temperature<br>(unassembled connector) | -40° to 80°C (-40° to 176°F)                        |
| <b>Environmental</b>                           |   |
| Humidity                                       | Max loss increase < 0.20 dB;<br>Reflection < -25 dB |
| Cold   | Max loss increase < 0.20 dB;<br>Reflection < -25 dB |
| Temperature life                               | Max loss increase < 0.20 dB;<br>Reflection < -25 dB |
| <b>Mechanical</b>                              |   |
| Impact   | Mean loss 0.12 dB; Mean reflection -28 dB           |
| Cyclic flex                                    | Mean loss 0.11 dB; Mean reflection -28 dB           |
| Twist  | Mean loss 0.11 dB; Mean reflection -28 dB           |
| Cable retention                                | Mean loss 0.12 dB; Mean reflection -27 dB           |
| Mating durability 500 matings                  | <0.3 change   |
| <b>Materials</b>                               |   |
| Connector ferrule                              | Zirconia ceramic                                    |
| Connector body and housing                     | Thermoplastic polymer                               |
| Boot   | Elastomeric resin                                   |
| Identification                                 | Black body, beige shell, beige boot                 |
| Fiber size                                     | 125 μm multimode                                    |
| <b>Couplings</b>                               |   |
| Housing  | Nickel plated zinc                                  |
| Sleeve   | Phosphor bronze                                     |

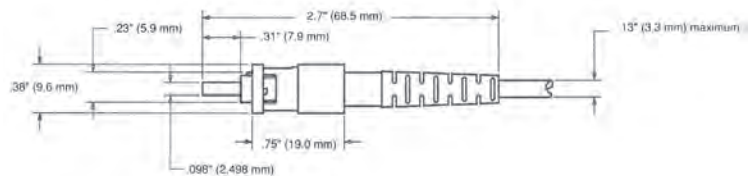
Note: Testing performed on cable assemblies with 3 mm jacketed cable and 900 μm buffered fiber.



Malleable metal element assures fiber retention and a reliable connection.



The metal element inside the connector closes around the fiber.



3M™ Crimplok™ ST Connector

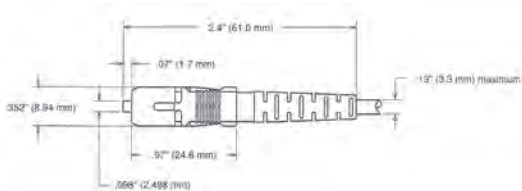
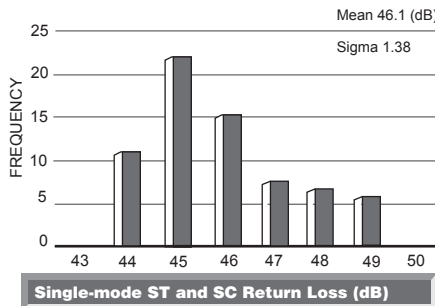
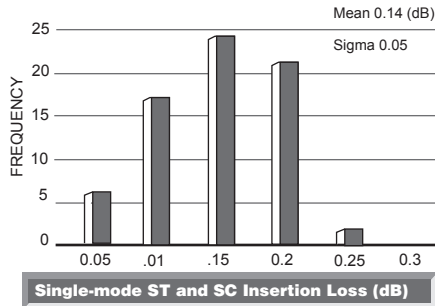
## 3M™ CRIMPLOK™ CONNECTORS

### Features

Installation in less than two minutes  
 Meets EIA/TIA-568A specifications  
 Non-adhesive design  
 Intermateability with standard connectors  
 No workstation setup required  
 Minimal tools required  
 No electricity required  
 Pre-radiused PC zirconia ceramic ferrule

### Benefits

Saves time  
 Rugged, reliable performance  
 Clean and simple terminations  
 Convenience, quick restoration of existing systems  
 Saves time and money  
 Low-cost kit  
 Installation anywhere  
 Assured contact of fibers; stability through temperature change; quality performance



3M™ Crimplok™ SC Connector

## 3M™ CRIMPLOK™ SC CONNECTOR SINGLE-MODE 8900

### Specifications

|   |                              |
|---|------------------------------|
| Attenuation @ 1300 nm (dB)                  | <0.2 typical                 |
| Reflection (dB)                             | ≤-40 dB typical              |
| Operational temperature (cable dependent)   | -10° to 60°C (14° to 140°F)  |
| Storage temperature (unassembled connector) | -40° to 80°C (-40° to 176°F) |

### Environmental

|                  |   |
|------------------|---|
| Humidity         | Max loss increase < 0.20 dB;<br>Reflection < -40 dB |
| Cold             | Max loss increase < 0.20 dB;<br>Reflection < -40 dB |
| Temperature life | Max loss increase < 0.20 dB;<br>Reflection < -40 dB |

### Mechanical

|                               |   |
|-------------------------------|---|
| Impact                        | Mean loss 0.18 dB; Mean reflection -40 dB |
| Cyclic flex                   | Mean loss 0.16 dB; Mean reflection -40 dB |
| Twist                         | Mean loss 0.16 dB; Mean reflection -40 dB |
| Cable retention               | Mean loss 0.16 dB; Mean reflection -40 dB |
| Mating durability 500 matings | <0.22 change                              |

### Materials

|                            |                                    |
|----------------------------|------------------------------------|
| Connector ferrule          | Zirconia ceramic                   |
| Connector body and housing | Thermoplastic polymer              |
| Boot                       | Elastomeric resin                  |
| Identification             | Black body, blue shell, black boot |
| Ferrule size               | 126 μm single-mode                 |
| Couplings                  |                                    |
| Housing                    | Engineering thermoplastic          |
| Sleeve                     | Zirconia Ceramic                   |

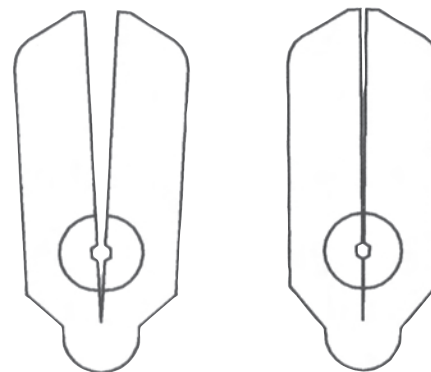
Note: Testing performed on cable assemblies with 3 mm jacketed cable and 900 μm buffered fiber.

# 3M™ CRIMPLOK™ ST CONNECTOR SINGLE-MODE 8901

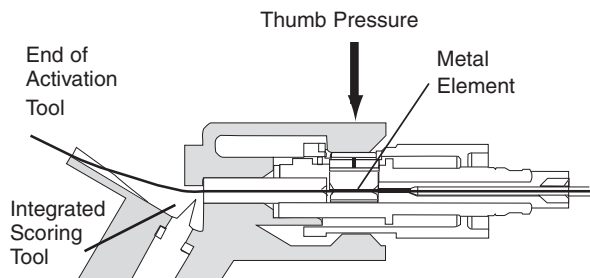
## Specifications

|  |   |
|--|---|
| Attenuation @ 1300 nm (dB)                     | <0.2 typical  |
| Reflection (dB)                                | ≤-40 dB typical                                     |
| Operational temperature<br>(cable dependent)   | -10° to 60°C (14° to 140°F)                         |
| Storage temperature<br>(unassembled connector) | -40° to 80°C (-40° to 176°F)                        |
| <b>Environmental</b>                           |   |
| Humidity                                       | Max loss increase < 0.20 dB;<br>Reflection < -40 dB |
| Cold   | Max loss increase < 0.20 dB;<br>Reflection < -40 dB |
| Temperature life                               | Max loss increase < 0.20 dB;<br>Reflection < -40 dB |
| <b>Mechanical</b>                              |   |
| Impact   | Mean loss 0.12 dB; Mean reflection -40 dB           |
| Cyclic flex                                    | Mean loss 0.11 dB; Mean reflection -40 dB           |
| Twist  | Mean loss 0.11 dB; Mean reflection -40 dB           |
| Cable retention                                | Mean loss 0.12 dB; Mean reflection -40 dB           |
| Mating durability 500 matings                  | <0.3 change   |
| <b>Materials</b>                               |   |
| Connector ferrule                              | Zirconia ceramic                                    |
| Connector body and housing                     | Thermoplastic polymer                               |
| Boot   | Elastomeric resin                                   |
| Identification                                 | Black body, beige bayonet cap, blue boot            |
| Ferrule size                                   | 126 μm single-mode                                  |
| <b>Couplings</b>                               |   |
| Housing  | Nickel plated zinc                                  |
| Sleeve   | Zirconia ceramic                                    |

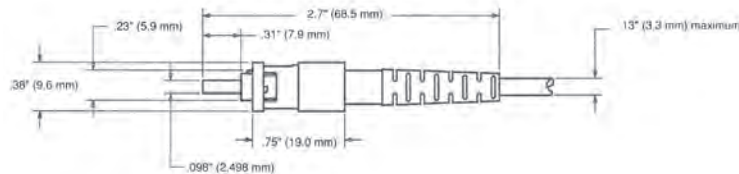
Note: Testing performed on cable assemblies with 3 mm jacketed cable and 900 μm buffered fiber.



Malleable metal element assures fiber retention and a reliable connection.



The metal element inside the connector closes around the fiber.



3M™ Crimplok™ ST Connector

# 3M™ CRIMPLOK™ CONNECTORS

## Ordering Information

To order, specify the correct product number from the chart below. For more information, please contact your authorized 3M distributor or a 3M Communication Markets Division sales representative at 800/426 8688.

| Product # | Description                       | Packaging Order       | Minimum   |
|-----------|-----------------------------------|-----------------------|-----------|
| 6900      | Crimplok Connector, SC MM, 125 µm | 1/bag, 60 bags/case   | 60 each   |
| 6901      | Crimplok Connector, ST MM, 125 µm | 1/bag, 60 bags/case   | 60 each   |
| 8900      | Crimplok Connector, SC SM, 126 µm | 1/bag, 60 bags/case   | 60 each   |
| 8901      | Crimplok Connector, ST SM, 126 µm | 1/bag, 60 bags/case   | 60 each   |
| 6900-1K-S | Crimplok Connector, SC MM, 125 µm | 1/bag, 1000 bags/case | 1000 each |
| 6901-1K-S | Crimplok Connector, ST MM, 125 µm | 1/bag, 1000 bags/case | 1000 each |
| 8900-1K-S | Crimplok Connector, SC SM, 126 µm | 1/bag, 1000 bags/case | 1000 each |
| 8901-1K-S | Crimplok Connector, ST SM, 126 µm | 1/bag, 1000 bags/case | 1000 each |
| 6955      | Crimplok Termination Kit          | 1/case                | 1 each    |
| 6955-P    | Polishing Tool                    | 1/case                | 1 each    |
| 6955-T    | Activation Tool, ST/SC            | 1/case                | 1 each    |
| 6112      | ST Multimode Simplex Coupling     | 1/bag, 60 bags/case   | 60 each   |
| 6113      | ST Multimode Duplex Coupling      | 1/bag, 60 bags/case   | 60 each   |
| 6310      | SC Multimode Simplex Coupling     | 1/bag, 60 bags/case   | 60 each   |
| 6313      | SC Multimode Duplex Coupling      | 1/bag, 60 bags/case   | 60 each   |
| 8113      | ST Single-mode Duplex Coupling    | 1/bag, 60 bags/case   | 60 each   |
| 8119      | ST Single-mode Simplex Coupling   | 1/bag, 60 bags/case   | 60 each   |
| 8310      | SC Single-mode Simplex Coupling   | 1/bag, 60 bags/case   | 60 each   |
| 8313      | SC Single-mode Duplex Coupling    | 1/bag, 60 bags/case   | 60 each   |



3M™ Crimplok™ Activation Tool 6955-T



3M™ Crimplok™ Termination Kit 6955



Tools for the Crimplok Connector are stored in a small tool pouch.



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### Офис по работе с юридическими лицами:

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