



ST* Connector, Epoxy Bayonet Multimode/Single-mode

The Epoxy ST* Connector is bayonet style for quick interconnect and high repeatability.

ST* Epoxy Bayonet Connector for Multimode/Single-mode

| Features | Benefits |
|--------------------------|---|
| Bayonet design | Quick interconnect |
| Keyed connector | Assures high repeatability |
| Pre-radiused PC ferrule | Assures contact of fibers; low reflection, consistent performance |
| Zirconia ceramic ferrule | Durability; stability through temperature change; quality performance |

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Specifications for ST* Bayonet Connectors

| | Hot Melt Bayonet | | Crimplok | | Epoxy Bayonet | | |
|--|---|---|--|--|---|---|------|
| | Multimode | Single-mode | Multimode | Single-mode | Multimode | Single-mode | |
| Product number | 6100 | 8100YS | 6901 | 8901 | 6105 | 8106 | 8107 |
| Connector type | Hot Melt | Hot Melt | Crimplok | Crimplok | Epoxy | Epoxy | |
| Fiber size μm | 125 | 126 | 125 | 126 | 125 | 126 | 127 |
| Attenuation (dB) @ 1300 nm field mount | <0.2 typical (62.5/125 μm fiber) | 0.2 typical (62.5/125 μm fiber) | <0.2 typical | <0.2 typical (62.5/125 μm fiber) | <0.2 typical (62.5/125 μm fiber) | 0.3 typical (62.5/125 μm fiber) | |
| Reflection (dB) field mount | \leq 25 typical | -30 typical | \leq 25 typical | -40 typical | \leq 25 typical | \leq 45 typical | |
| Connector durability (dB) 500 matings | <0.2 change | <0.2 change | <0.3 change | <0.3 change | <0.2 change/ 1000 matings | <0.2 change | |
| Operating temperature | -40° to 60°C (-40° to 140°F) | -40° to 60°C (-40° to 140°F) | -10° to 60°C (-14° to 140°F) | -10° to 60°C (-14° to 140°F) | -40° to 80°C (-40° to 176°F) | -40° to 80°C (-40° to 176°F) | |
| Storage temperature | -40° to 85°C (-40° to 185°F) | -40° to 85°C (-40° to 185°F) | -40° to 85°C (-40° to 185°F) | -40° to 85°C (-40° to 185°F) | -40° to 85°C (-40° to 185°F) | -40° to 85°C (-40° to 185°F) | |
| Material Connector ferrule Connector housing Boot | Zirconia ceramic Nickle plated zinc Thermoplastic elastomer | Zirconia ceramic Nickle plated zinc Thermoplastic elastomer | Zirconia ceramic Thermoplastic polymer Thermoplastic elastomer | Zirconia ceramic Thermoplastic polymer Thermoplastic elastomer | Zirconia ceramic Nickle plated zinc Thermoplastic elastomer | Zirconia ceramic Nickle plated zinc 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 | |
| Identification | Blue dot on end of ferrule, white boot | Blue dot on end of ferrule, yellow boot | Black body beige shell grey boot | Black body beige shell blue boot | Black backbone | Silver backbone | |
| Field Termination Kit 120V 230V | 6355 HM 6351 HM | 6355 HM 6351 HM | 6955 (no power needed) | 6955 | 8365 8361 | 8365 8361 | |

Connector Accessories

Couplings

3M Couplings are compatible with Hot Melt, Bayonet, and Crimplok™ connectors and cable assemblies from 3M, as well as other major ST* connector vendors. These single-mode and multimode couplings are available in threaded or simplex housings, and a duplex coupling with 0.5" industry standard spacing. The duplex threaded coupling is mounted on the panel with a single nut and provides high density capability.



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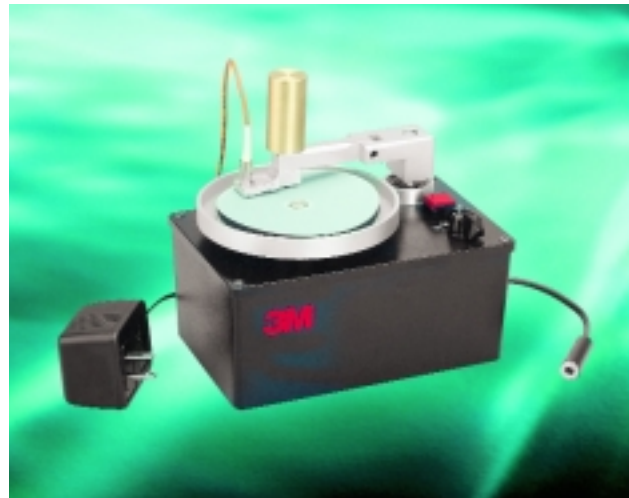
Specifications for ST* Couplings

| | Multimode | | Single-mode | |
|-------------------------------|--|--------------------------|--|-------------------|
| 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 185°F) | | -40° to 85°C (-40° to 185°F) | |
| Material Housing Sleeve | Nickel plated zinc Beryllium copper | | Nickel plated zinc Zirconia ceramic | |

One-Step Polishing Machine

The 6850 One-Step Polishing Machine features a dry, single-paper technology for polishing the ferrule of a single Hot Melt Connector. It is a 12-volt DC unit that provides hands-free operation and delivers consistent performance. Because no wet paper is used, no water is necessary and no clean up is required.

3M also offers connector termination kits utilizing the one-step polishing procedure for a variety of Hot Melt Connectors. The 6355 and 6351 Termination Kits contain all materials necessary to terminate Hot Melt Bayonet Connectors (compatible with the ST* Connector). The 3M polishing machine includes the polishing unit, 110-volt AC to 12-volt DC converter, and 100 sheets of polishing film. There are also adapters to polish FC and SC connectors.



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Specifications for One-Step Polishing Machine

| Size H x W x D cm (in.) | Weight kg (lbs.) |
|--------------------------------------|---------------------------------------|
| 13.2 x 19.1 x 12.7 (5.2 x 7.5 x 5.0) | Net: 2.2 (4.9) Shipping: 3.2 (7.0) |

Ordering Information

| Product Name | Shipping Unit |
|---|----------------------------|
| Multimode Connectors | |
| 6100-W Hot Melt Bayonet ST* Connector MM, 125 um, white boot | 60/cs. |
| 6100-R Hot Melt Bayonet ST* Connector MM, red boot | 60/cs. |
| 6100-B Hot Melt Bayonet ST* Connector MM, black boot | 60/cs. |
| 6105-B Bayonet ST* Connector MM, 125 um Epoxy, black boot | 60/cs. |
| 6901 Crimplok™ MM ST* Connector | 60/cs. |
| 6100-W5-12 Hot Melt Bayonet ST* Connector MM Bulk, 125 um, white boot | 60/cs. |
| 6100-R5-12 Hot Melt Bayonet ST* Connector MM Bulk, 125 um, red boot | 60/cs. |
| 6100-B5-12 Hot Melt Bayonet ST* Connector MM Bulk, 125 um, black boot | 60/cs. |
| 6100-W1K Hot Melt Bayonet ST* Connector MM, 125 um, white boot, 1,000 Bulk | 60/cs. |
| 6100-R1K Hot Melt Bayonet ST* Connector MM, 125 um, red boot, 1,000 Bulk | 60/cs. |
| 6100-B1K Hot Melt Bayonet ST* Connector MM, 125 um, black boot, 1,000 Bulk | 60/cs. |
| 6105-R Bayonet ST* Connector MM, 125 um Epoxy, red boot | 60/cs. |
| 6105-B1K Bayonet ST* Connector MM, 125 um Epoxy, black boot, 1,000 Bulk | 60/cs. |
| 6105-R1K Bayonet ST* Connector MM, 125 um Epoxy, red boot, 1,000 Bulk | 60/cs. |
| 6105-B10K Bayonet ST* Connector MM, 125 um Epoxy, black boot, 10,000 Bulk | 60/cs. |
| 6105-R10K Bayonet ST* Connector MM, 125 um Epoxy, red boot, 10,000 Bulk | 60/cs. |
| Multimode Couplings | |
| 6112 ST* Coupling MM, Threaded | 60/cs. |
| 6113 ST* Coupling MM Duplex, Threaded | 60/cs. |
| 6112-1K ST* Coupling MM Threaded 1,000 Bulk | 60/cs. |
| Single-mode Connectors | |
| 8100YS Hot Melt Bayonet ST* Connector SM | 60/cs. |
| 8106 ST* Bayonet Connector SM 126 um, epoxy | 60/cs. |
| 8107 ST* Bayonet Connector SM 127 um, epoxy | 60/cs. |
| 8901 Crimplok™ SM ST* Connector | 60/cs. |
| 8106-Y1K ST* Bayonet Connector SM 126 um, Epoxy 1,000 Bulk | 60/cs. |
| Single-mode Couplings | |
| 8113 Coupling SM Duplex, Threaded | 1 each |
| 8119 Coupling SM, Threaded | 1 each |
| Accessories | |
| 6192-A One Step Hot Melt Polishing Film (50 sheets/pkg.) | 1 pkg. |
| 6192-B Polishing Film for 6850 One Step Polishing Machine | 1 pkg. (50 sheets/pkg.) |
| 08-00882 Metal polishing jig available separate from kits | 1 each |
| 6192-AA Single-mode Hot Melt Polishing Film (.05µm) (50 sheets/pkg.) | 1 pkg. |
| SM Lapping film for Crimplok, 80-6110-1312-1 (50 sheets/pkg.) | 1 pkg. |
| One Step Crimplok Polishing Film, 80-6108-4532-5 (50 sheets/pkg.) | 1 pkg. |
| ST-B ST* Boot Bulk Pack, Black | 500/cs |
| ST-R ST* Boot Bulk Pack, Red | 500/cs |
| ST-U ST* Boot Bulk Pack, Blue | 500/cs |
| Polishing Machines/Portable Heaters | |
| 6850-A Polishing Machine with 110V converter, one step | 1/cs. |
| Terminating Kits | |
| 6355 HM Hot Melt Termination Kit 120V for all Hot Melt Connectors | 1 kit |
| 6351 HM Hot Melt Termination Kit 230V for all Hot Melt Connectors | 1 kit |
| 6955 Universal Crimplok Termination Kit for all Crimplok Connectors | 1 kit |
| 8361 ST*/FC/SC Universal Kit 230V (epoxy) for ST* Bayonet, SC and FC style connectors | 1 kit |
| 8365 ST*/FC/SC Universal Kit 120V (epoxy) for ST* Bayonet, SC and FC style connectors | 1 kit |