# Fibre Optic Cabling
## ST Connectors & Adaptors

The ST Connector has been the mainstay of optical fibre connectors for many years. It can be found in almost every communications room worldwide, but used mainly in data communications systems. The ST optical fibre connector comprises of a nickel plated brass body and a ceramic ferrule/spring/crimp barrel assembly plus a crimp over sleeve and rubber boot. These connectors are suitable for 900 µm and 2-3 mm cables. The connector is precision made and manufactured to demanding specifications. Connectors are suitable for use with two part heat curing epoxies and cold cure anaerobic adhesives.

The ST adaptor set the standard for optical fibre interconnects. With its simple to use bayonet locking mechanism, it preventing accidental disconnection. With the precision housing this adaptor gives the very best performance. Generally there are two types of alignment sleeve within an adaptor; phosphor bronze for multimode or zirconia (ceramic) for singlemode.




### Features & Benefits

- Low insertion loss and back reflection loss
- High precision alignment
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance
- Compact design
- Choice of housing material and sleeve material
- Nickel/plastic

### Ordering Information

| Product Description | Part Number |
|---|---|
| ST SX Plug SM 0.9 mm Yellow Cap - Blue Boot | FFST2 |
| ST SX Plug SM 3 mm Clear Cap - Yellow Boot | FFST10 |
| ST SX Plug MM 0.9 mm Red Cap - Black Boot | FFST1 |
| ST SX Plug MM 3 mm Clear Cap - Black Boot | FFST3BK |
| ST SM Adaptor Ceramic - Yellow Caps | FFST4 |
| ST MM Adaptor Ceramic - Black Caps | FFST3 |

### Product Specifications

| | |
|---|---|
| Versions Available | 2 mm & 3 mm patch, 900 µm |
| Colours | 2 mm & 3 mm boot: black, red, blue, yellow, 900 µm boot: black, blue, yellow |
| Termination Procedures | Epoxy-crimp-polish |
| Standard Packaging | 100 pcs bulk packed |
| Singlemode | Insertion loss: max. 0.3 dB, typical 0.2 dB, Return loss: UPC > 50 dB, typical 55 dB, APC > 60 dB, typical 65 dB |
| Multimode | Insertion loss: max. 0.3 dB, typical 0.12 dB (IEC 874-1 method) |
| Capillary Diameter Tolerance | SM: 126 ± 0.5 µm MM: 127 =/- 0.5 µm |
| Ferrule Diameter | 2.5 mm ± .001 Pre-radiused, PC-end finish for PC ferrule to ferrule. R 10 to 25 mm |
| Vibration (Mated Pair) | 10-55 Hz, 1.5mm P to P =0.3 dB change (IEC 61300-2-1) |
| Mating Durability | 1000 mating cycles - clean every 25 < 0.2 dB change (IEC 61300-2-2) |
| High Temperature | 75°C for 96 hours =0.2 dB change (IEC 61300-2-18) |
| Damp Heat | 60°C at 95% RH, 96 hours =0.2 dB change (IEC 61300-2-19) |
| Temperature Cycling | -40 to +75°C, 40 cycles =0.2 dB change (IEC 61300-2-48) |
| Operating Temperature | -40°C to +85°C |
| ST Adaptor Insertion Loss | <0.20 dB |
| ST Adaptor Durability | <0.20 dB typical change 1000 matings |
| ST Adaptor Operating Temperature | -40 to + 85°C |


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