

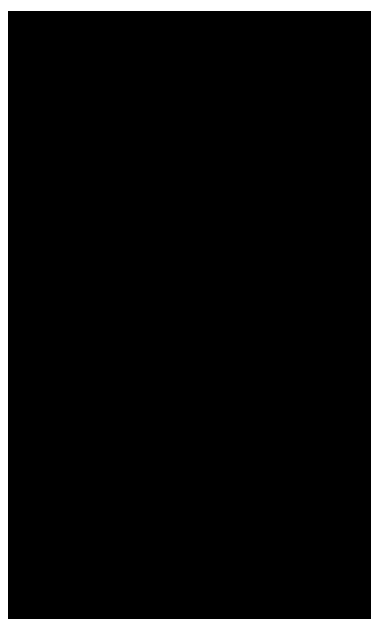
# Fibre Optic Cabling

## 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  $\mu\text{m}$  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 $\mu\text{m}$
Colours	2 mm & 3 mm boot: black, red, blue, yellow, 900 $\mu\text{m}$ 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: $126 \pm 0.5 \mu\text{m}$ MM: $127 \pm 0.5 \mu\text{m}$
Ferrule Diameter	2.5 mm $\pm .001$ 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