

Datasheet

Single Mode Simplex Fibre Optic Connector

RS Stock number 536-8109



Description

The ST connector has been the main stay of optical fibre connectors for many years. It can be found in almost every communications room world wide, but used mainly in data communications Systems. The simple to use bayonet locking mechanism reduces the risks of accidental disconnection.

The optical fibre connector compromises of 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 900um and 2-3mm cables. The connector is precision made and manufactured to Demanding specifications.

The combination of a ceramic ferrule and precision metal housing provides consistent long-term Mechanical and optical performance.



Specification

Description

The ST connector is the most popular connector used today. It can be seen in every area of the communications environment, from a telecoms distribution room to a local area network closet the ST has set the standard for optical fibre connectors.

The Optronics ST connectors are manufactured using the highest quality components. The connectors exceeds all areas of the standards covering optical fibre connectors.

Versions Available:

2mm Patch
3mm Patch
900 μ m

Termination Procedures

Prep cable end, Epoxy-Crimp-Polish

Product Packaging

Standard packaging: 100pcs bulk packed
Special packaging available by request

Colours

2 & 3 mm Boot, Black, Red, Yellow
900 μ m Boot, Black, Blue, Yellow

Intermateability

Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-2.

Optical Performance

Singlemode

Insertion loss: Max. 0.3 dB Typical 0.2 dB

Return Loss: UPC > 50dB Typical 55 dB

Multimode

Insertion loss: Max. 0.3 dB Typical 0.12 dB

Mechanical

Capillary diameter tolerance:

SM—126 \pm 0.5 μ m

MM—127 \approx /- 0.5 μ m

Ferrule Diameter: 2.5mm \pm .001

Ceramic pre-radiused, PC-end finish for Physical

Contact ferrule to ferrule. R 10 to 25mm

Tensile Strength Cable retention: >50 N
(2 & 3mm boot versions only)

Vibration (Mated Pair):

(IEC 61300-2-1)
10-55 Hz, 1.5mm P to P
=0.3dB Change

Mating Durability:

(IEC 61300-2-2)
1000 mating cycles
Clean every 25
< 0.2 dB Change

High Temperature:

(IEC 61300-2-18)
75°C for 96 hours
=0.2dB Change

Damp Heat:

(IEC 61300-2-19)
60°C at 95% RH, 96 hours
=0.2dB Change

Temperature Cycling

(IEC 61300-2-48)
-40 to +85°C, 42 cycles
=0.2dB Change

Operating Temperature

-40°C to +85°C