

SC Optical Fibre Connector

SC Optical Connector Description

The Optronics SC optical fibre connector is comprised of a polymer body and a ceramic ferrule/spring/crimp barrel assembly plus a crimp over sleeve and rubber boot. These connectors are suitable for, 900µm and 2 and 3mm cables. The connector is precision made and manufactured to demanding specifications. The combination of a ceramic ferrule and a precision polymer housing provides consistent long-term mechanical and optical performance.

FibreFab has developed a system to couple two SC connectors to form a duplex version. This quickly converts two single connectors, allowing the user to choose between cross over or straight through patchcord configuration

FibreFab has 15 years experience in manufacturing fibre optic connectors and cable assemblies. From Biconic and SMA through ST, SC to today's Small Form Factor connectors like the LC, MU or MT-RJ. If you have a fibre network, no matter what the technology, FibreFab can offer you a solution to your problem.

FibreFab has full ISO9001 on all of its manufacturing facilities, so you can be confident you are using the very best in cable, connectors and manufacturing.

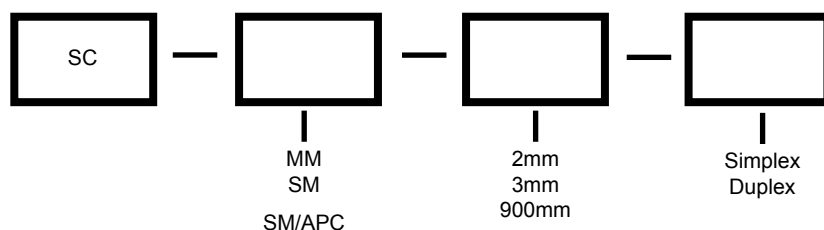
The SC connector is one of the most popular connector used today. It can be seen in every area of the communications environment, from a telecoms distribution room to a local area network closet the SC has set the standard for optical fibre connectors.

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

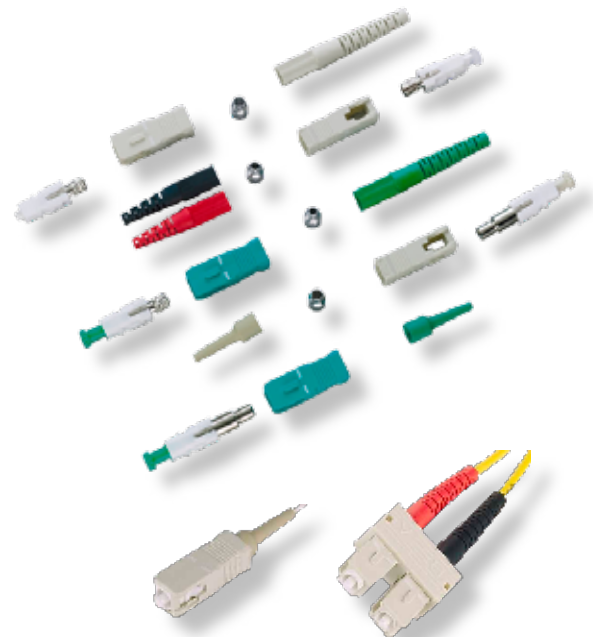
Features

- ▶ Available in 2mm patch, 3mm patch and 900 µm
- ▶ Termination Procedures : Prep cable end, Epoxy-Crimp-Polish
- ▶ Standard packaging: 100pcs Bulk packed, Special packaging available by request
- ▶ Simplex & Duplex versions available (duplex version uses two simplex connectors with a clip to be coupled as required)
- ▶ Available in Blue, Red, Black, Green (2 & 3 mm Boot), Blue (900 mm Boot)

Product Range



Multi-piece Packs available to order



Technical Specification

Intermateability

Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-4.

Optical Performance

Singlemode

Insertion loss: Max. 0.3 dB Typical 0.2 dB

Return Loss: UPC > 50dB Typical 55 dB
APC > 60dB Typical 65 dB

Multimode

Insertion loss: Max. 0.3 dB Typical 0.12 dB

Mechanical

Capillary diameter tolerance:

SM—126 ± 0.5µm

MM—127 ± 0.5µm

Ferrule Diameter: 2.5mm ± .001

Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule. R 10 to 25mm

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

Vibration (Mated Pair):

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

Damp Heat:

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

Mating Durability:

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

Temperature Cycling

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

High Temperature:

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

Operating Temperature

-40°C to +85°C