

FC Optical Fibre Connector



The FC connector is used extensively in the telecommunications market, where long singlemode optical fibre cables can run upwards of 50km. In these extreme situations the connector needs to have extremely low loss and accurate geometry.

The Optronics FC 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 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 nickel plated brass housing provides consistent long-term mechanical and optical performance.

The Optronics FC connector is available in Singlemode PC and APC versions as well as multimode.

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.

Specifications

Description

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

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

Versions Available:

2mm Patch
3mm Patch
900 µm

Termination Procedures

Prep cable end, Epoxy-Crimp-Polish

Product Packaging

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

Colours

900 µm Boot, Blue, Black
2 and 3 mm Boot, Blue, Black

Intermateability

Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-13.

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. 0.5 dB Typical 0.3dB
(IEC 874-1 method)

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: >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

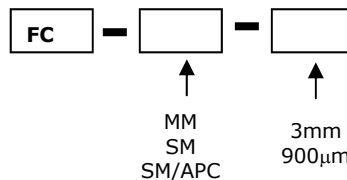
(IEC 61300-2-48)
-40 to +75°C, 40 cycles
=0.2dB Change

Operating Temperature

-40°C to +85°C



Ordering Information



FibreFab Limited

Witan Court
305 Upper Fourth Street
Central Milton Keynes
MK9 1EH

Tel: +44 (0) 870 127 3330
Fax: +44 (0) 870 127 3331
Email: sales@fibrefab.com
Internet: www.fibrefab.com