

FIBRE OPTIC PASSIVE COMPONENTS

CONNECTORS

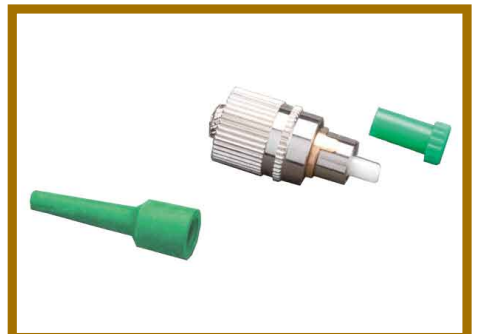
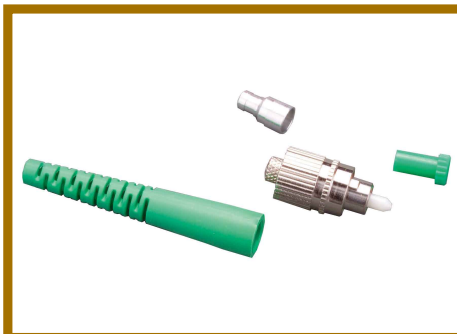
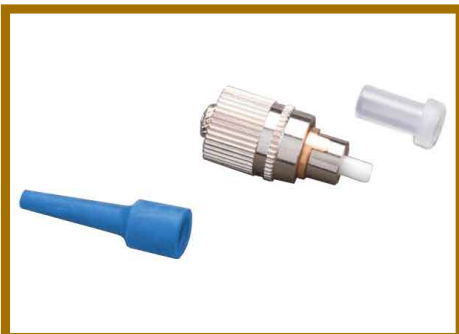
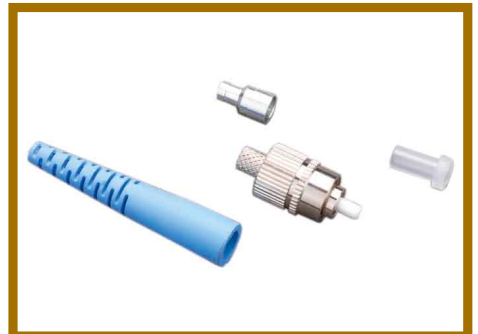
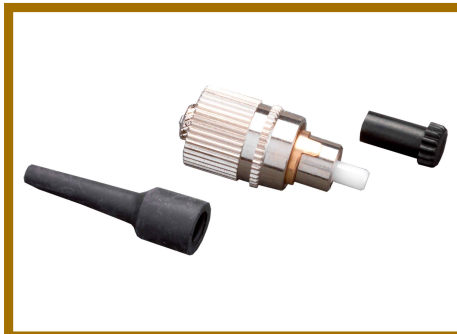
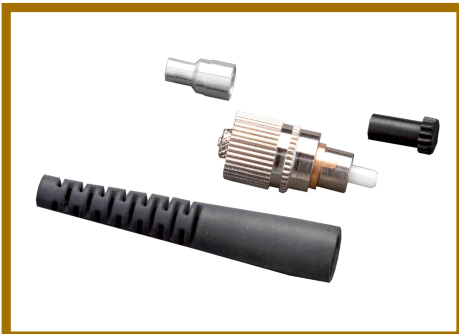
FC OPTICAL FIBER CONNECTOR

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

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

The SofeTEK FC Optical Fiber 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.

SofeTEK 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 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 fiber connectors.

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

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FC OPTICAL FIBER CONNECTOR

Ordering information

Description	Part No
FC SM Connector 0.9mm Blue Boots	FCSM09BU
FC SM Connector 2.0mm Blue Boots	FCSM20BU
FC SM Connector 3.0mm Blue Boots	FCSM30BU
FC MM Connector 0.9mm Black Boots	FCMM09BK
FC MM Connector 2.0mm Black Boots	FCMM20BK
FC MM Connector 3.0mm Black Boots	FCMM30BK
FC/APC SM Connector 0.9mm Green Boots	FASM09GN
FC/APC SM Connector 2.0mm Green Boots	FASM20GN
FC/APC SM Connector 3.0mm Green Boots	FASM30GN

Optical Performance

Vibration (Mated Pair)	Mating Durability	High Temperature	Damp Heat
(IEC 61300-2-1) 10-55 Hz, 1.5mm P to P =0.3dB Change	(IEC 61300-2-2) 1000 mating cycles Clean every 25 < 0.2 dB Change	(IEC 61300-2-18) 75°C for 96 hours =0.2dB Change	(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

Versions Available

2mm Patch
3mm Patch
900 mm

Termination Procedures

Prep cable end, Epoxy-Crimp-Polish
Product Packaging
Standard packaging: 100pcs Bulk packed
Special packaging available by request

Colours

900 mm 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. 0.3 dB Typical 0.12dB
(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)