# DATASHEET

# FC Fiber Optic Connector







## Description

Optical Connector is a reusable passive component which could be applied in fiber and Cable connection. They are widely used in ODF, ODN, PON etc.

The FC was the first optical fiber connector to use a ceramic ferrule, but unlike the plastic bodied SC and LC, it utilizes a round screw-type fitment made from nickel-plated or stainless steel. The connector end face relies on an alignment key for correct insertion and is then tightened into the adaptor/jack using a threaded collet. Despite the additional complexity both in manufacturing and installation, it's still the connector of choice for precise measuring equipment such as OTDRs.

Initially intended for datacoms and telecoms applications, its use has reduced since the introduction of the SC and LC. These deliver similar performance to the FC but both have less expensive components and are quicker to connect. However, the screw-on collet of the FC does make it particularly effective in high vibration environments, ensuring that the spring-loaded ferrule is firmly mated.

OMC manufactures many sorts of fiber connectors. Such as SC,LC,ST,FC,MU,MTRJ,E2000,MPO,MTP,SMA,DIN,D4 etc.

#### **Industrial Standard:**

FC: EIA /TIA-604-04, FOCIS4, NTT-FC, GR-326. IEC61754-13 and JIS C5973

### **Optical Performance:**

Meets Telcordia GR-326-Core issue IL(Typical):SM<0.3dB; MM <0.3dB: RL(Typical):SM >50dB; MM >35dB:

# **Mechanical Performance:**

Connection Durability: 500 Matings cycles Connector Repeatability: MM<0.2dB; SM<0.1dB

#### **Environmental Performance:**

Operating Environment: -40°C ~ + 80°C Meets UL94-V0 Flammability Requirements ROHS compliant

#### **Application**

Patch cord&pigtail produce&Manufacture

#### **Products Details**

Fiber Connector	FC	Ferrule Material	Zirconia Ceramic	
Housing	Copper	Boot Size	0.9mm, 2.0mm, 3.0mm	
Operating Temp Range	-40~80°C	Boot color	SM: Blue/Black/white MM: Black/red APC: Green	
Suit Cable	0.6-3.0mm OD cable	Available for	Not assembled Multi-Piece Pre-assembled one piece	

## **Boot Type**



Solid Boot

**Hollow Boot** 

# **Dust cap Type**



Standard cap

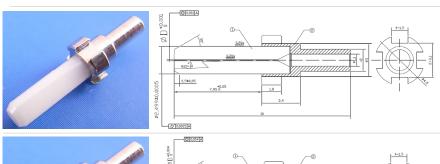


Cap with Fix Tail

We can offer many colors boot



# Ferrule for FC Connector

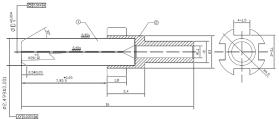


SM UPC Ferrule for FC SM UPC Connector

Concentricity<1.0um for standard quality demand

Concentricity<0.3um for IEC grade B demand



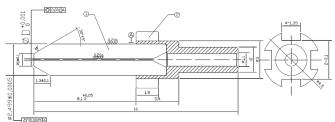


MM Ferrule for FC MM PC Connector

Concentricity<4.0um for standard quality demand

Concentricity<1.4um for IEC grade B demand



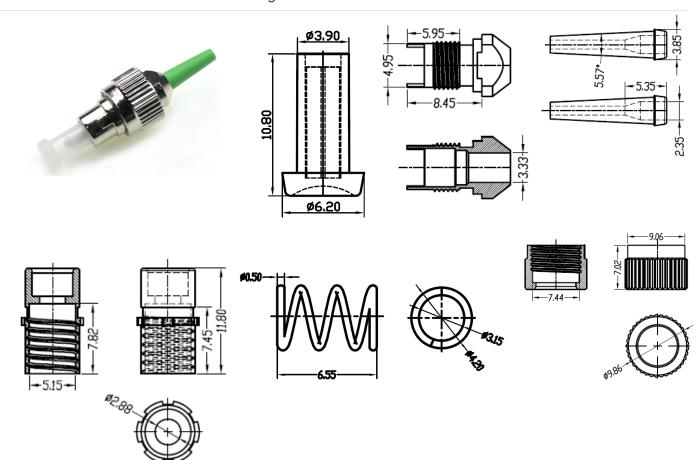


SM APC Ferrule for FC SM APC Connector

Concentricity<1.0um for standard quality demand

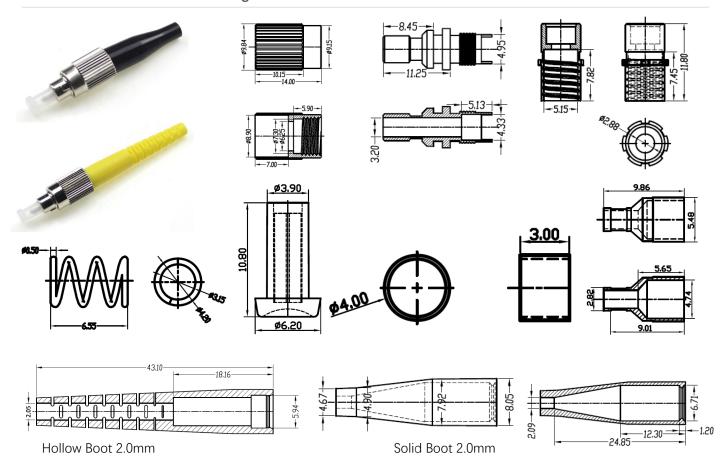
Concentricity<0.3um for IEC grade B demand

FC 0.9mm Solid Boot Connector Drawing

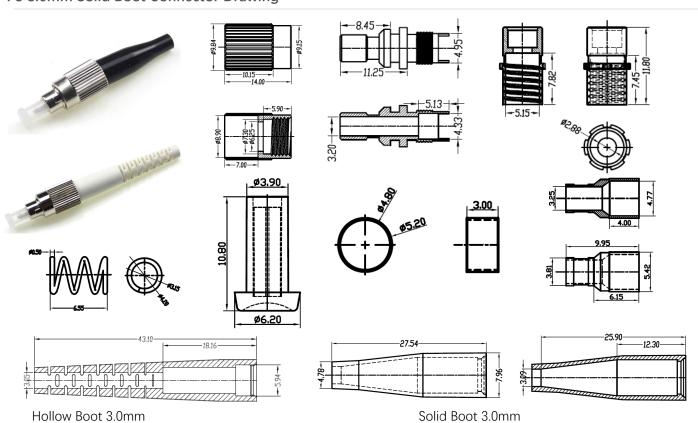




# FC 2.0mm Boot Connector Drawing



# FC 3.0mm Solid Boot Connector Drawing





# Order index

Products	- Connector	Fiber Mode	- Boot Size	- Boot Color	- Assembly
G- Fiber Connector	C-FC PC	1 - SM PC	1– 0.9mm	A - Blue	0- not assembled
	G-FCAPC	2– MM PC	2– 2.0mm Hollow Boot	B- Orange	1-Assembled
		3– SM APC	3 – 3.0mm Hollow Boot	C- Green	
			4 – 2.0mm Solid Boot	D- Brown	
			5 – 3.0mm Solid Boot	E- Grey	
				F-White	
				G-Red	
				H-Black	
				I-Yellow	
				J-Purple	
				K-Pink	
				L-Aqua	
				M-Magenta	