

# DATASHEET

## FC Fiber Optic Connector



OMC INDUSTRY CO.LIMITED

## 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:

### Environmental Performance:

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

### Mechanical Performance:

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

### Application

Patch cord&pigtail produce&Manufacture

## Products Details

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





**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 |
|                    |           | 2- MM PC   | 2- 2.0mm Hollow Boot  | B- Orange  | 1-Assembled      |
|                    | G-FCAPC   | 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  |                  |