

➤ Fiber Optic Connector Series

Fiber Optic Connectors are an important component in a fiber optic network; they are used on a fiber optic patch cord or pigtail with an adaptor to make connections. In order to achieve accurate and precise connections of the fiber ends, very high quality ceramic components are used. Fiber optic connectors made with precision and high quality ceramic components provide a high reliability connection when used with the various adapters. We make sure that every connector that leaves our production is tested and performs as per the international standards.

Standards Compliance

- UL-V0 flammability rating
- TIA/EIA-568-C.3 (Optical Fiber Cabling Components Standard)
- ANSI/TIA/EIA-455B (Standard Test Procedure for Standard Fiber Optic Fibers, Cables, Connecting & Terminating Devices, and Other Components)
- IPC-8497-1 (Cleaning Methods & Contamination Assessment for Optical Assembly)

Features

- High quality ceramic components and Material
- End-face geometry requirement complies to Telcordia GR-326-CORE
- 100% tested on optical performance (Insertion Loss & Return Loss)
- Simplex, duplex and higher core densities
- 900 micron, 2mm, 3mm cable applications

Design & Materials

Connector Ferrule	Ceramic
Alignment Sleeve	Ceramic
Connector Body	UL 94V-0 rated Thermoplastic to meet standard flammability ratings
Crimp Insert/Crimp Tube	Nickel-Plated Brass/Thermoplastic Elastomer Polymer
Dust Cap	Nylon or PVC
Strain Relief Boot	Flame retardant (UL-Rated 94-V0) polymer
Connector Style	SC, FC, ST, LC, MTRJ,
Polish	PC, UPC, APC
Capillary Diameter Tolerance	126 ± 0.5µm(Single Mode), 127 ± 0.5µm (Multimode)
Ferrule Diameter	2.5 ± 0.001mm(FC,SC,ST), 1.25± 0.001mm (LC)



FIBER OPTIC CONNECTOR

Environmental & Mechanical Data

Operating Temperature	-40 to +85° C
Storage Temperature	-40 to +85° C
Temperature Cycling (61300-2-18)	-40 to +75° C, 40 cycles=0.2dB change
High Temperature (61300-2-18)	70°c for 96Hrs, <0.4dB change
Damp Heat(61300-2-19)	40° C at 93%RH for 96 Hrs, <0.4dB change
Vibration-Mated Pair (61300-2-1)	10-55Hz, 1.5mm P to P <0.2dB change
Mating Durability (61300-2-2)	500 Mating Cycles, clean every 25, <0.2dB change

Optical Performance Data

Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert Loss/connector (single Fiber)	0.3dB Max. (0.2dB typ.)			0.3dB Max. (0.2dB typ.)		
Return Loss	≥45 dB	≥50 dB	≥60 dB	N.A		
Insert Loss/MTRJ Connector	0.5dB Max. (0.45dB typ.)			0.5dB Max. (0.45dB typ.)		
Pull Strength	≥98N			≥98N		