

Sales Catalog of HNK Telecommunication Products

Fiber Optic Connector

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)

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

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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		

Ordering Information

Using the available configurations amend/create product codes using the formula below.

Part Number: **SCN-AA-BB-CD**

Ordering Guide

AA	BB	C	D
Connector Type	Connector Boots diameter	Fiber count	Mode
FP,SP,SA,LP	20=2.0mm 30=3.0mm 09=0.9mm	SX=Simplex DX=Duplex	SM=Singlemode PC MM=Multimode PC APC=Singlemode APC

Connector Type Code

FP	FC/PC, FC/UPC	FA	FC/APC	MU	MU
SP	SC/PC, SC/UPC	SA	SC/APC	MT	MTRJ
TP	ST/PC, ST/UPC	TA	ST/APC	DN	DIN
LP	LC/PC, LC/UPC	LA	LC/APC	E2	E2000

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MTRJ Fiber Optic Connector

MTRJ Fiber Optic Connector is capable of terminating any 125µm fiber, designed to terminate two fibers within a single connector, reduces the risk of operator error when inter-connecting equipment and distribution panels.

The flexibility of the connector allows it to be used in short run local area networks as well as longer haul cabling using single mode fiber. The high density MT-RJ connector allows the termination of high fiber count backbone cables to be terminated in smaller distribution panels.



Standards Compliance

Compliant with IEC 61754-18
RoHS, REACH SvHC compliant

Applications

Telecoms, intra-building backbone LAN cross connects. (Duplex multimode connections).

Specifications

Fiber Type	9/125 SM, 62.5/125 MM, 50/125 MM
Polishing	PC, UPC, APC
Ferrule Diameter	2.45×4.4 mm
Coupling Type	Snap
Dimension (HxWxL)	10x9.2x56 mm (with Boot)

Ordering Sample

Part Number	Description
SCN-MT20DXMM	MTRJ/PC 2.0mm Duplex Multimode Fiber Optic Connector.
SCN-MT20DXSM	MTRJ/PC 2.0mm Duplex Singlemode Fiber Optic Connector.