

# FIBRE CONNECTOR

## FIBRE CONNECTOR SPECIFICATION

### FEATURES

Quick, easy installation.  
 High quality Zirconia PC ferrule.  
 900 micron, 2mm, 3mm cable applications.  
 Telcordia-style strain and relief boot.

### STANDARDS COMPLIANCE

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

### DESIGN & MATERIALS

Connector Ferrule	Zirconia Ceramic
Alignment Sleeve	Zirconia or Phosphor Bronze
Connector Body	UL 94V-0 rated Thermoplastic
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, E2000
Polish	PC & APC
Capillary Diameter Tolerance(Single Mode)	126 ± 0.5 µm
Capillary Diameter Tolerance(Multimode)	127 ± 0.5 µm
Ferrule Diameter	2.5 ± 0.001 mm

### ENVIRONMENTAL & MECHANICAL DATA

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

### OPTICAL PERFORMANCE DATA

Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert Loss/connector (single Fibre)	0.2 dB Max. (0.15 dB typ.)			0.3dB Max. (0.25dB typ.)		
Return Loss	45 dB	≥50 dB	≥60 dB	N.A		
Insert Loss/MTRJ Connector	0.5 dB Max. (0.45 dB typ.)			0.5dB max. (0.45dB typ.)		
Pull Strength	≥98 N	≥98 N	≥98 N	≥98 N		

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## MTRJ CONNECTOR

Norden MTRJ connector is capable of terminating any 125µm fibre, designed to terminate two fibres within a single connector, reduces the risk of operator error when inter-connecting equipment and distribution panels. The MT ferrule in its various designs has the ability to connect anything from 2 fibres in the MTRJ to 72 fibres in the latest versions of

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 fibre.



## COMPLIANCE

Compliant with IEC 61754-18 for Intermateability

## APPLICATIONS

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

## SPECIFICATIONS

Fibre 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)	10 x 9.2 x 56 mm (with Boot)

## ORDERING INFORMATION

Part Number	Description
36-MMT1	MTRJ/PC Multimode Connector
36-SMT1	MTRJ/PC Singlemode Connector
36-SMT3	MTRJ/APC Singlemode Connector

## PACKING INFORMATION

Part Number	Packing Length	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
36-MMT1	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-SMT1	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-SMT2	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-SMT3	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-SMT4	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395