

# 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  
 ANSI/TIA/EIA 568.3-D (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)  
 IEC 61300-3-4

### 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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## SC CONNECTOR

Norden SC connector is a push pull type, that gives an audible click when mates into its adaptor. It's a snap-in connector that latches with a simple push-pull motion. It comprises of a body with ceramic ferrule/spring/crimp barrel assembly plus a crimp over sleeve and rubber boot. These connectors are suitable for . 900µm and 2-3mm cables. The connector is precision made to demanding specifications. The combination of a ceramic ferrule with precision polymer housing provides consistent long-term mechanical and optical performance.



## COMPLIANCE

Compliant with IEC 61754-4 for Intermateability

## APPLICATIONS

Intra-building Backbone , LAN cross connects, Local and Wide Area Networks, Data transmission.  
CATV, MAN, WAN, Test & Measurement, Industry, Medical and Sensors.

## SPECIFICATIONS

Ferrule Diameter	2.5 mm
Coupling Type	Snap, Push Pull type
Shell Colour	Blue (SM), Beige (MM) and Green (SM APC)
2 mm Boot Colour	White
900 µm Boot Colour	White
Shell Connector versions available for	2 mm, 3 mm Cable, 900 µm Buffered Fibre, Simplex & Duplex
Shell Tensile Strength Cable retention	> 50 N for 2 mm & > 98 N for 3 mm & 0.9 mm

## ORDERING INFORMATION

Part Number	Description
36-MSC1	SC/PC Multimode Connector
36-LSC1	SC/PC Laser Optimised Multimode(OM3/OM4) Connector
36-SSC1	SC/PC Singlemode Connector
36-SSC3	SC/APC Singlemode Connector

## PACKING INFORMATION

Part Number	Packing Length	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
36-MSC1	100 x 5 x 10	Carton Box	7.5	8.5	545 x 260 x 395
36-LSC1	100 x 5 x 10	Carton Box	7.5	8.5	545 x 260 x 395
36-SSC1	100 x 5 x 10	Carton Box	7.5	8.5	545 x 260 x 395
36-SSC3	100 x 5 x 10	Carton Box	7.5	8.5	545 x 260 x 395

