

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, and Other Components)
 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 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, E2000
Polish	PC, UPC, 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		

FIBRE CONNECTOR

E2000 CONNECTOR

Norden E2000 features a latch lever locking mechanism to prevent accidental disconnection. It is designed to work in today's telecommunications markets where use of high power lasers require a high level of safety and performance. The E2000 With the power of today's laser transmitters reaching levels that are a danger to an unprotected user, the E2000 offers a level of protection no other connector can match. Each E2000 connector and adaptor has its own shutter that automatically opens and closes as the connector slides into its adaptor. Designed to be easy to terminate, the once piece ferrule assembly saves time and gives trouble free operation.



COMPLIANCE

Compliant with IEC 61754-2 for intermateability.

APPLICATIONS

Telecommunications markets where use of high power lasers require a high level of safety and performance.
DWDM systems.

SPECIFICATIONS

Tuning	In 60° Steps
Mechanical Resistance	100N tensile load
Colour	Blue (SM), Green (SM APC), Beige (OM1/OM2); Aqua (OM3/OM4)
Coupling Type	Snap, with light and dust-cap
Shell Connector versions available for	2 mm, 3 mm Cable, 900 µm Buffered Fibre, Simplex
Shell Tensile Strength Cable retention	> 50 N for 2 mm boot versions & > 98 N for 3 mm & 0.9 mm

ORDERING INFORMATION

Part Number	Description
36-ME21	E2000/PC Multimode OM1/OM2 Connector
36-LE21	E2000/PC Multimode OM3/OM4 Connector
36-SE21	E2000/PC Singlemode Connector
36-SE22	E2000/UPC Singlemode Connector
36-SE23	E2000/APC Singlemode Connector