

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

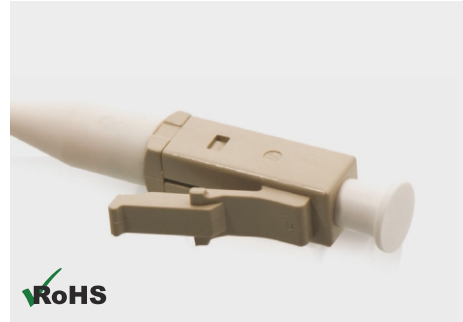
Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert Loss/connector (single Fibre)	0.2 dB Max. (0.15 dB typ.)			0.3dB Max. (0.25dB typ.)		
Return Loss	45 dB	≥50 dB	≥60 dB	N.A		
Insert Loss/MTRJ Connector	0.5 dB Max. (0.45 dB typ.)			0.5dB max. (0.45dB typ.)		
Pull Strength	≥98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

FIBRE CONNECTOR

LC CONNECTOR

Norden LC connector is comprised of a Polymer body and a Ceramic ferrule/spring/crimp barrel assembly plus a crimp over sleeve and rubber boot. This connector has a screw thread fitting into the adaptor to provide a secure connection and is suitable for 900µm, 2 and 3mm cable. The connector is precision made and manufactured to demanding specifications. The combination of a Ceramic ferrule with polymer housing provides consistent long-term mechanical and optical performance.

The LC has been designed to meet the need for a small optical fibre connector that uses half the space of the SC connector.



COMPLIANCE

Compliant with IEC 61754-20 for Interchangeability.

APPLICATIONS

It can be seen extensively in the local area network closet as a standard fit to many market leading hubs and switches. High-density connections, SFP transceivers, XFP transceivers.

SPECIFICATIONS

Ferrule Diameter	1.25 mm
Shell Colour	Blue (SM), Beige (MM) and Green (SM APC)
2mm Boot Colour	white
900µm Boot Colour	white
Shell Connector versions available for	2 mm Cable, 900 µm Buffered Fibre, Simplex & Duplex
Shell Tensile Strength Cable retention	> 50 N for 2 mm boot versions & > 98 N for 3 mm & 0.9 mm
Coupling Type	Snap

ORDERING INFORMATION

Part Number	Description
36-MLC1	LC/PC Multimode Connector
36-LLC1	LC/PC Laser Optimised Multimode(OM3/OM4) Connector
36-SLC1	LC/PC Singlemode Connector
36-SLC3	LC/APC Singlemode Connector

PACKING INFORMATION

Part Number	Packing Length	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
36-MLC1	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-LLC1	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-SLC1	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395
36-SLC3	100 x 5 x 10	Carton Box	8.5	9.5	545 x 260 x 395