

LC Patchcord

Description:

The innovative LC design offers a form factor one-half the size of current industry standards, and simple features create a new definition of user-friendliness.

The LC connector is manufactured to meet EIA/TIA 568A, FOCIS 10, IEC 61754-20 and IEC 11801 specifications for optical performance and intermate ability. The LC Duplex fits into the RJ-45 standard cutout and uses the smallest diameter cable jacket in the industry.



Features:

- one-half the size of current industry standards
- increases panel density – provides duplex connection in 50% less space
- available in MM and SM versions with Ultra and Angle (APC) polishing
- user-friendly audible latch to indicate proper mating
- flip for easy connector removing from adaptor
- simplex and duplex version available
- pull – proof 1.7 mm simplex mini-cord, 1.8 x 3.6 mm duplex minizip cable and duplex dualan cable diameter 2.9 mm

Specifications:

	SM Ultra PC Grade B	SM Ultra PC Grade A	SM Angle PC Grade C	SM Angle PC Grade B	SM Angle PC Grade A	SM Angle PC Grade A+
Insertion loss (IL) (IEC 61300-3-4)	0.12 dB typ 0.25 dB 97%	0.06 dB typ 0.15 dB 97%	0.25 dB typ 0.50 dB 97%	0.15 dB typ 0.25 dB 97%	0.06 dB typ 0.15 dB 97%	0.10 dB max
Return loss (RL ^{1,3}) (IEC 61300-3-6)	>50 dB	>55 dB	>60 dB	>65 dB	>65 dB	>85 dB ¹
Strain relief	90 N ²					
Operating temperature	-40°C to +80°C ²					
Durability	min 1000 cycles					
Assembly procedure	glue and polish					
Connection	physical contact					
Lock mechanism	snap-on					
Standards	ISO/IEC 11801, TIA 568A, IEC 61754-20, EN 50377-7					
Ferrule material	full ceramic zirconia					
Connector material	thermoplastic					
Adapter material	polymer composite, zirconia sleeve					

Note: 1) RL >85 dB measured with low coherence reflectometry (IEC 61300-3-6 method 3 OLCR), RL valid for patchcord length ≤ 1.5 m
2) Conditioned by the type of cable
3) MM: IL=0.15 dB typ, RL>30 dB

Application:

- Telecom
- LAN, WAN
- CATV
- Sensor systems
- Measuring Technique
- Utilities
- Railways



connectors with flip for easy removing from the adaptor

Ordering code:

(2x)⁴AAA (D) - XXYYY - X - (CC)⁵ - LLL

AAA - Connector

Type Description

LC	LC/PC multimode
ULC	LC/UPC, Grade B
ULCA	LC/UPC, Grade A ⁸
NLC	LC/APC, Grade C
NLCB	LC/APC, Grade B
NLCA	LC/APC, Grade A ⁸
NLCA1	LC/APC, Grade A+ ⁸

(D)	Duplex connector
(DU)	Duplex uniboot
(S)	Short boot
(F)	Flip – easy disconnection from ODF

Note:

- 4) Two simple connectors in case duplex patchcord
- 5) Not filled when color is not defined
- 6) X – according fiber subtype (e.g. G.657.A1,A2,B3)
- 7) G.655 – various types available (TrueWave, Reduced Slope, TeraLight, Leaf, ...)
- 8) Grade A, A+ is not available for duplex patchcords

CC-Color

LLL - Length (m)

X - Type (pigtail or jumper)

JC	jumper A-B crossed
JS	jumper A-A straight
PT	pigtail tight buffered, strip in one shot < 10 cm
PS	semtight 20-30 cm in one shot
PD	pigtail easy strip > 100 cm

XX - Diameter of fiber, cable

YYY - Type of fiber

Fiber:

09 Fiber Ø 0.9 mm

OM1 MM 62.5/125 µm

Simplex cable:

17 Cable Ø 1.7 mm

OM2-5 MM 50/125 µm

20 Cable Ø 2.0 mm

S2D SM 9/125 µm (G.652D)

24 Cable Ø 2.4 mm

S5X^{6,7} SM 9/125 µm (G.655X)

28 Cable Ø 2.8 mm

S6 SM 9/125 µm (G.656)

30 Cable Ø 3.0 mm

S7X⁶ SM 9/125 µm (G.657X)

Duplex cable:

D/A1 G.652D & G.657A1

D1 Duplex minizip 1.8 x 3.5 mm

D2 Dualan cable Ø 2.9 mm

D3 Duplex zipcord 2.0 x 4.2 mm

D4 Duplex zipcord 2.4 x 5.0 mm

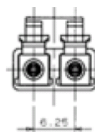
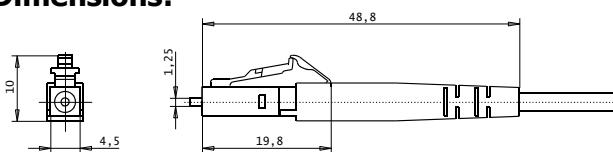
D8 Duplex zipcord 2.8 x 5.5 mm

DT Duplex twin 3.1 x 5.2 mm

Color code:

BK	BN	RD	OG	YE	GN	BU	VT	GY	WH	PK	TQ
Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White	Pink	Turquoise

Dimensions:



JS duplex straight patchcord A-to-A



JC duplex crossed patchcord A-to-B

Sample:

NLC-20S7A1-J-001



Duplex connector – polarity change

ULCDF – duplex uniboot LC/UPC with flip



Polarity change procedure

- Remove flip
- Remove top lid
- Change LC connectors position
- Install flip into top lid
- Cover connector with lid