

## 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 intermateability. 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
- duplex fits RJ-45 footprint
- available in MM and SM versions with Ultra and Angle (APC) polishing
- user-friendly audible latch to indicate proper mating
- 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 Premium Grade A	SM Angle PC Grade B	SM APC Premium 2 Grade A	SM APC Premium 1 Grade A+
Insertion loss (IL) (IEC 61300-3-4)	0.15 dB typ 0.25 dB 97%	0.06 dB typ 0.15 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) (IEC 61300-3-6)	>50 dB	>50 dB	>60 dB	>85 dB <sup>1</sup>	>85 dB <sup>1</sup>
Strain relief	90 N				
Operating temperature	-40°C to +80°C <sup>2</sup>				
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)  
 2) Conditioned by the type of cable

### Application:

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

### Ordering code:

**AAA (D)** - **XX XXX** - **X** - **(XX)<sup>1</sup>** - **XXX**

AAA Connector Type	Connector Description
LC	LC/PC
ULC/SLC	LC/UPC
ULC1	LC/UPC Premium Class 1
NLC	LC/APC
NLC1	LC/APC Premium Class 1
NLC2	LC/APC Premium Class 2
(D) <sup>2</sup>	duplex connector
(DU) <sup>3</sup>	duplex uniboot

XX-color

XXX - 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	semitight 20-30 cm in one shot
PD	pigtail easy strip > 100 cm

#### XX - diameter of fiber, cable

09	fiber Ø 0.9 mm
17	cable Ø 1.7 mm
20	cable Ø 2.0 mm
24	cable Ø 2.4 mm
28	cable Ø 2.8 mm
30	cable Ø 3.0 mm

#### XXX - type of fiber

OM1/M6	MM 62.5/125 µm
OM2/M5	MM 50/125 µm
OM3/M3	MM 50/125 µm
OM4	MM 50/125 µm
S2D/SM	SM 9/125 µm
(G.652D) S5X <sup>4</sup>	SM 9/125 µm
(G.655X) S7X <sup>4</sup>	SM 9/125 µm
(G.657X)	

#### Insertion Loss:

Premium Class (MM)	≤ 0.30 dB
Premium Class 1	≤ 0.10 dB
Premium Class 2	≤ 0.25 dB

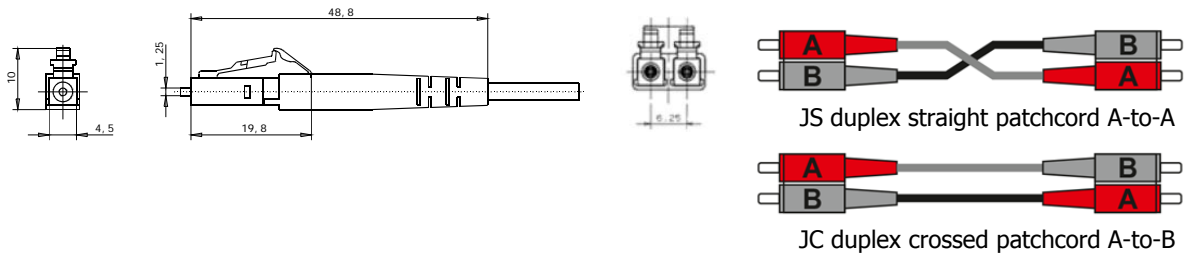
#### Note:

- 1) not filled when color is not defined, default colors will be used – SM-yellow, OM1-blue, OM2-green, OM3-turquoise
- 2) LC D duplex connector
- 3) LC DU duplex uniboot connector
- 4) X – according fiber subtypes (e.g. G.657A)

#### 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:



### Samples:

NLC-20S7A1-J-001



ULC D-2xNE2S-D8S2D-J-003



LC DU-D2OM3-J-003

