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

NEW!

Connectors with flip for easy removing from the adaptor

Ordering code:

$$(2x)^4 AAA\ (D) \quad - \quad XXYYY \quad - \quad X \quad - \quad (CC)^5 \quad - \quad LLL$$

| CC-Color | LLL - Length (m) |

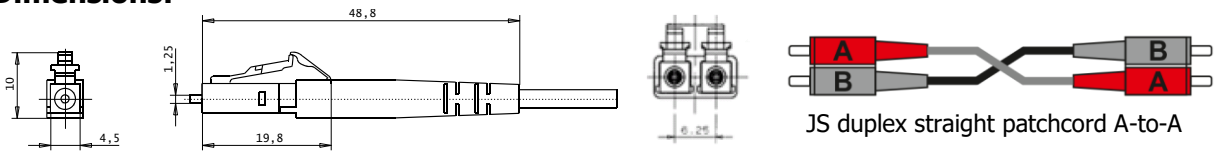| AAA - Connector	
Type	**Description**
LC	LC/PC multimode
ULC	LC/UPC, Grade B
ULCA	LC/UPC, Grade A[8]
NLC	LC/APC , Grade C
NLCB	LC/APC , Grade B
NLCA	LC/APC, Grade A[8]
NLCA1	LC/APC, Grade A+[8]
(D)	Duplex connector
(DU)	Duplex uniboot
(S)	Short boot
(F)	Flip – easy disconnection from ODF

Note:
4) Two simple connectors in case duplex patchord
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

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		YYY - Type of fiber	
Fiber:			
09	Fiber Ø 0.9 mm	**OM1**	MM 62.5/125 µm
Simplex cable:		**OM2-5**	MM 50/125 µm
17	Cable Ø 1.7 mm		
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	**S7X**[6]	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

Samples:

NLC-20S7A1-J-001
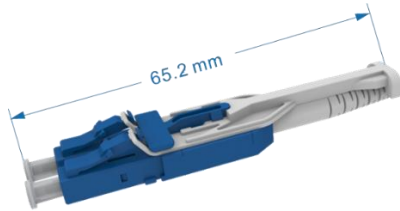
ULCD-2xNE2-D8S2D-J-003

LCDU-D2OM3-J-003

CON_02-01_EN
20/11/2024

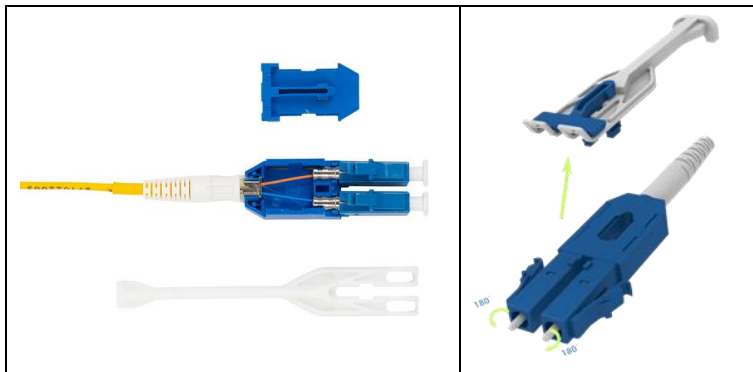# LC Patchcord with Duplex Uniboot connector – ULCDF

The flexible **ULCDF connector** allows for the connector to be disengaged easily from densely loaded panels without the need for special tools or finger access.

The regular LC adapter spacing was limited by the room required to reach LC connectors with human fingers or with special tools, This low-profile **ULCDF** connector, together with its pull tab allow LC adapters to be stacked with full use of vertical space.

Body dimension (mm): 65.2 (L) x 12.1 (W) x 9.3 (H)

Polarity change:

Polarity change procedure:

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

Sample of patchcord: