Datolink Ltd

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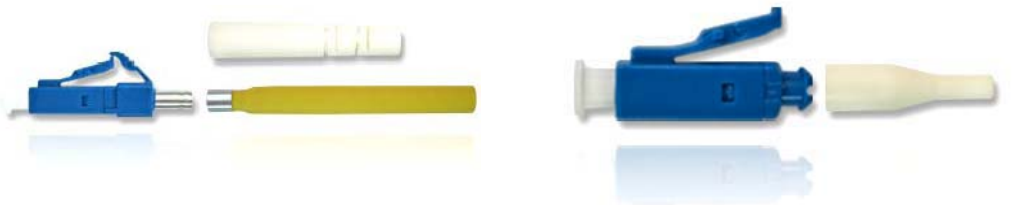
Datolink fiber optic patch cord LC-LC

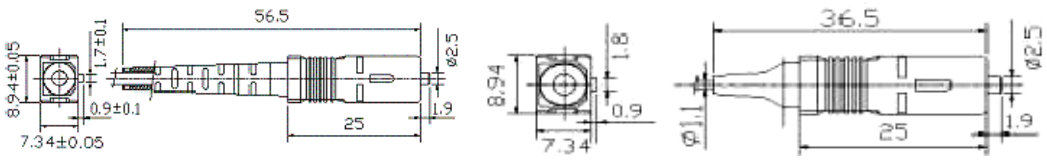
Datolink Ltd make high quality fiber optic patch cord, which provides low insertion loss, high return loss, low polarization effects which can provides excellent environmental stability for PM amplifer, fiber lasers and test instrumentation applications.
LC stands for Lucent Connector. The LC is a small form-factor Fiber optic connector.
The LC Connector uses a 1.25 mm ferrule, half the size of the ST. Otherwise; it is a standard ceramic Ferrule connector. The LC has good performance and is highly favored for single mode.

LC/PC-LC/PC, SM, 9/125um, Duplex, 1 meter, 3mm
LC/PC-LC/PC, MM, 62.5/125um, Duplex, 3 meters, 3mm

Features:

1. Low insertion loss and high return loss
2. Free-floating ceramic ferrule
3. UL-rated plastic housing and boot
4. Boots in a variety of colors
5. High precision alignment





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Applications:

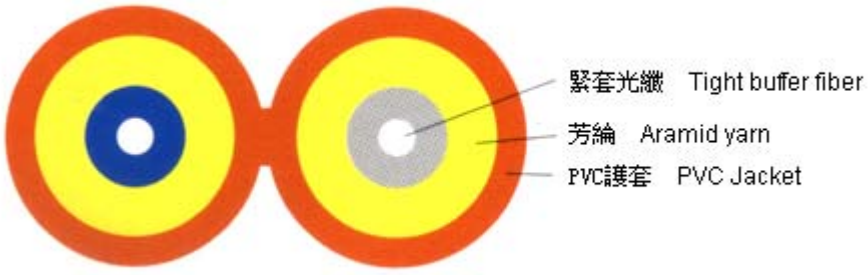
Local Area Networks (LANs) and Wide Area Networks (WANs)
Fiber Optic CATV，FTTH,FTTB,FTTP etc
Fiber Optic telecommunication systems
Transmission Mode (ATM)
Fiber Optic Backbone
Military Instrumentation

Availability:

-The connector can be supplied as a pre-assembled one-piece connector or as connector kits.
-Clips are available for SC and LC duplex connectors
Housing kits without ferrule are available.
-PC, UPC and APC are available

Specifications		
	Single mode	Multimode
Insert Loss	≤0.20dB	≤0.25dB
Return Loss	≥50 dB (PC)	
	≥55 dB (UPC)	
	≥65 dB (APC)	
Durability	<0.20 dB typical change, 1000 mating	
Operating Temperature	From -40 to + 80°C	From -40 to + 80°C
Ferrule Hole Sizes	125.0+1/-0μm, Concentricity: ≤1.0μm	125μm, Concentricity: 1≤3μm
	125.5+1/-0μm, Concentricity: ≤1.0μm	127μm, Concentricity: 1≤3μm
	126.0+1/-0μm, Concentricity: ≤1.0μm	128μm, Concentricity: 1≤3μm

Cable type:



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Comply with Standard YD/T 1258.3-2003, ICEA-596, GR-409, IEC794, etc; and meet the requirements of UL approval for OFNR and OFNP.

Cable Code:

	ZCC-III	ZCC-II	ZCC-I
Cable Diameter (mm)	(6.0±0.4)×(2.8±0.2)	(4.2±0.4)×(2.0±0.2)	(3.4±0.4)×(1.6±0.2)
Cable Weight (kg/km)	15.6	10.5	7.3
TBF Diameter	900±50μm	900±50μm	600±50μm

Mechanical Characteristics:

Tensile Strength	Long term	100N	100N	
	Short term	200N	200N	
Crush Resistance	Long term	200N/100mm	100N/100mm	
	Short term	1000N/100mm	500N/100mm	
Bending Radius	Dynamic	20×H （Cable Axis）		
	Static	10×H （Cable Axis）		

Optical Characteristics:

		50/125μm	62.5/125μm	G.652	G.655
Attenuation(+20℃)	@850nm	≤3.5dB/km	≤3.5dB/km		
	@1300nm	≤1.5dB/km	≤1.5dB/km		
	@1310nm			≤0.45dB/km	≤0.50dB/km
	@1550nm			≤0.30dB/km	≤0.50dB/km
Bandwidth (Class A)	@850nm	≥500MHz·km	≥200MHz·km		
	@1300nm	≥1000MHz·km	≥600MHz·km		

Numerical Aperture		0.200±0.015NA	0.275±0.015NA		
Cable Cut-off Wavelength λcc				≤1260nm	≤1480nm
Δα(-20℃~+85℃)	@1300nm	≤0.25dB/km	≤0.25dB/km		
Attenuation at temperature cycling Δα(-20℃~+85℃)	@1550nm			≤0.10dB/km	≤0.15dB/km

Environmental Characteristics:

Transport Temperature	-20℃~+60℃
Storage Temperature	-20℃~+60℃
Installation Temperature	-5℃~+50℃
Operating Temperature	-20℃~+60℃