

LC Uniboot Push-Pull (Switch Polarity) Specification

KEY FEATURES

- Uniboot with a Single Housing
- Unique Push-Pull Design and Function
- Interchangeable polarity
- Low insertion loss and added loss
- Height of attenuation
- High back loss, small volume, light weight
- End-face geometry and quality superior than IEC and Telcordia standards
- LSZH, OFNP, OFNR cable jacket
- Mechanical performance: IEC 61754-20 standard
- RoHS and REACH materials compliant



APPLICATIONS

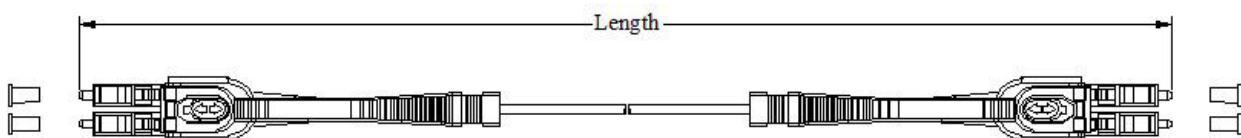
- Data Centers
- Local Area Networks
- High-Density Applications
- Interconnects
- Cross-connects

Connector Types

TYPE	REFERENCE	NOTE	
LC	IEC 61754-20	Single mode	UPC: Blue connectors , White boots
		Multimode	UPC: Grey or Aqua Connectors , White boots

Dimensional Diagrams

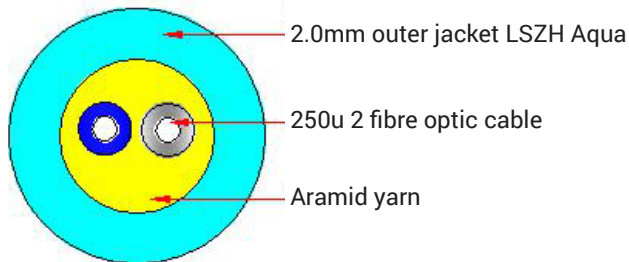
LC Uniboot Push-Pull (Switch Polarity) 2.0mm patchcord



Patch Cord Versions

JUMPER TOLERANCE REQUIREMENT	
OVERALL LENGTH (L) (M)	LENGTH OF TOLERANCE (CM)
$0 < L \leq 20$	+10/-0
$20 < L \leq 40$	+15/-0
$L > 40$	+0.5%L/-0

Cable Structure



Cable Parameters

FIBRE ACCOUNT	OD (MM)	NOMINAL WEIGHT (KG/KM)	MAX.TENSILE STRENGTH (N)		MAX.CRUSH RESISTANCE (N/100MM)		MIN.BENDING RADIUS (MM)	
			Short-term	Long-term	Short-term	Long-term	Dynamic	Static
2	2.0±0.15	6.8	150	80	500	150	20D	10D

Optical Characteristics

ITEM	PARAMETER		REFERENCE
	Single mode	Multimode	
INSERTION LOSS	Typical value≤0.15dB ; Maximum≤0.30	Typical value≤0.15dB ; Maximum≤0.30	IEC 61300-3-34
RETURN LOSS	≥ 50dB (UPC)	≥30dB (UPC)	IEC 61300-3-6

End-Face Geometry

ITEM	UPC (REF: IEC 61755-3-1)	APC (REF: IEC 61755-3-2)
RADIUS OF CURVATURE (MM)	7 to 25	5 to 12
FIBRE HEIGHT (NM)	-100 to 100	-100 to 100
APEX OFFSET (MM)	0 to 50	0 to 50
APC ANGLE (°)	/	8° ±0.2°
KEY ERROR (°)	/	0.2° max

End-Face Quality (SM)

ZONE	RANGE (MM)	SCRATCHES	DEFECTS	REFERENCE
A: CORE	0 to 25	None	None	IEC 61300-3-35:2015
B: CLADDING	25 to 115	None	None	
C: ADHESIVE	115 to 135	None	None	
D: CONTACT	135 to 250	None	None	
E: REST OF FERRULE		None	None	

Mechanical Characteristics

TEST	CONDITIONS	REFERENCE
ENDURANCE	500 matings	IEC 61300-2-2
VIBRATION	Frequency: 10 to 55Hz, Amplitude: 0.75mm	IEC 61300-2-1
CABLE RETENTION	100N (patch cable); 5N (pigtail)	IEC 61300-2-4
STRENGTH OF COUPLING MECHANISM	80N for 2 to 3mm cable	IEC 61300-2-6
CABLE TORSION	15N for 2 to 3mm cable	IEC 61300-2-5
FALL	10 drops, 1m drop height	IEC 61300-2-12
STATIC LATERAL LOAD	1N for 1h (patch cable); 0.2N for 5min (pigtail)	IEC 61300-2-42
COLD	-25°C, 96h duration	IEC 61300-2-17
DRY HEAT	+70°C, 96h duration	IEC 61300-2-18
CHANGE OF TEMPERATURE	-25°C to +70°C, 12 cycles	IEC 61300-2-22
HUMIDITY	+40°C at 93%, 96h duration	IEC 61300-2-19