



## LSH PATCHCORDS/PIGTAILS



### FEATURES

- Connector's design complies with IEC 61754-15 standard
- Extremely low insertion loss and high return loss
- End-face geometry and quality superior than IEC and Telcordia standards
- LSZH, OFNP, OFNR cable jacket
- RoHS and REACH materials compliant

### OPTICAL CHARACTERISTICS

Item	Parameter	Reference
Insertion loss	Random mated average $\leq 0.07\text{dB}$ ; Random mated for 97% $\leq 0.12\text{dB}$	IEC 61300-3-34
Return loss	$\geq 70\text{dB}$ (APC); $\geq 55\text{dB}$ (UPC)	IEC 61300-3-6

### END-FACE GEOMETRY

Item	PC (Ref: IEC 61755-3-1)	APC (Ref: IEC 61755-3-2)
Radius of curvature (mm)	7 to 15	6 to 12
Fiber height (nm)	-30 to 30	-30 to 30
Apex offset ( $\mu\text{m}$ )	0 to 30	0 to 30
APC angle ( $^{\circ}$ )	/	7.8 to 8.2
Key error ( $^{\circ}$ )	/	-0.2 to +0.2

### END-FACE QUALITY

Zone	Range ( $\mu\text{m}$ )	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	

### CONNECTOR TYPES

Type	Reference	Note
LSH	IEC 61754-15	Single mode simplex APC: Green connectors, Green boots (for 0.9mm) / White boots (for 2.0/3.0mm) UPC: Blue connectors, White boots

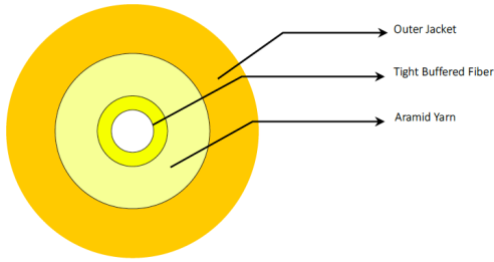
### MECHANICAL CHARACTERISTICS

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



**CABLE SPECIFICATIONS**

Cable Structure (Simplex)

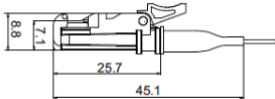


**Cable Characteristics (Simplex)**

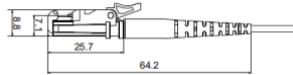
Fiber count	1				
Outer diameter (mm)	1.5 to 1.6	1.70 to 1.80	1.80 to 2.00	2.85 to 3.05	
Nominal weight (kg/km)	3.0	3.3	4.0	8.0	
Max. tensile strength (N)	Short term	50	70	70	90
	Long term	20	40	40	50
Max. crush resistance (N/100mm)	Short term	500			
	Long term	100			
Min. bending radius (mm)	Short term	20D			
	Long term	10D			
Sheath compound	RoHS compliant LSZH/OFNP/PVC				
Color	Customized				
Strength members	Aramid yarn				
Temperature (°C)	Storage or transportation	-25 to 70			
	Operation	-25 to 70			

**DIMENSIONAL DIAGRAMS**

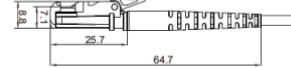
LSH  $\varnothing$ 0.9mm connector



LSH  $\varnothing$ 2.0mm connector

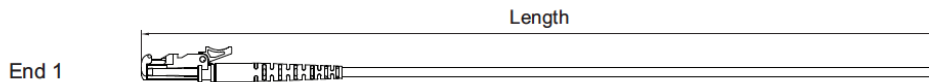


LSH  $\varnothing$ 3.0mm connector

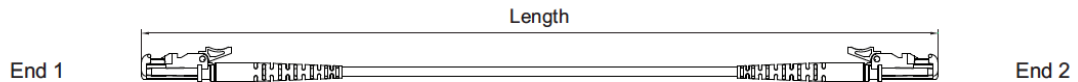


**SCHEMATIC DIAGRAMS**

LSH pigtail



LSH simplex patchcord





**ORDER INFORMATION**

PATLSH —  —  —  —  —  —  —  —  —

Cable	Connector end1	Connector end2	Fiber type	Cable Ø	Cable jacket material	Cable color	Cable length (xxx)
1: Simplex	1: LSHAPC 2: LSHUPC 3: None	1: LSHAPC 2: LSHUPC 3: None	1: G652D 2: G657A1 3: G657A2 4: G657B3 5: Others	1: 250µm bare fiber 2: 900µm tight buffer 3: 1.6mm 4: 2.0mm 5: 3.0mm 6: 4.8mm 7: Customized	1: LSZH 2: LSZH CPR 3: OFNP 4: OFNR 5: Hytrel 6: TPU 7: PVC 8: Customized	1: Blue 2: Orange 3: Green 4: Brown 5: Gray 6: White 7: Red 8: Black 9: Yellow 10: Violet 11: Pink 12: Aqua 13: Magenta 14: Customized	0D5: 0.5m 001: 1.0m 1D5: 1.5m 010: 10m ...