

LSH Patchcord

Description:

The LSH connector patchcords are offered for MM or SM applications with PC and APC polishing method. LSH integrated protective cap made from zinc alloy protects ferrule from dust and rules out any laser light emissions. The LSH connector is compatible with E2000™ connector standards. High power version available.



LSH connector

Features:

- Integrated zinc alloy protective cap protects ferrule from dust and rules out any laser light emissions
- Integrated spring for a guaranteed closing of the protective cap
- Single mode and multimode versions available, PC and APC polishing
- Full ceramic ferrule
- Adjustable in 60° steps
- Excellent for high packing density
- Compatible with E2000™ standard

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) (IEC 61300-3-6) | >50 dB | >55 dB | >60 dB | >65 dB | >65 dB | >85 dB ¹ |
| Tensile strength ² | 100 N | | | | | |
| Operating temperature | -25°C to +70°C, conditioned by type of cable | | | | | |
| Durability | min 500 cycles | | | | | |
| Assembly procedure | glue and polish | | | | | |
| Connection | physical contact | | | | | |
| Input power | Standard 0.5 W, High power connector up to 4.5 W ⁴ | | | | | |
| Lock mechanism | snap-on | | | | | |
| Standards | IEC 61753, IEC 61754-15, EN 50377-8 | | | | | |
| Ferrule material | full ceramic zirconia | | | | | |
| Connector body material | PBT | | | | | |
| Adapter material | PBT, housing, slotted ceramic 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
 4) Grade A+ connector, 2 W long term operation at 1550 nm, increasing on 4.5 W during 170 hrs, connectors inspected and perfectly cleaned, with corresponding MFD and polishing angle

Application:

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

Ordering code:

| AAA | | - | XX XXX | - | X | - | (XX) ¹ | - | XXX/(XX) ² |
|-----------------|--|--|-----------------------------|--------------------------|----------------------------|---|-------------------|---|-----------------------|
| AAA – Connector | | | | | | | XX - color | | XXX - length [m] |
| Type | Description | | | | | | | | |
| | Multimode | | | | | | | | |
| PE2 | LSH (E2000)/PC | | | | | | | | |
| | Single mode | | | | | | | | |
| UE2 | LSH (E2000)/UPC, Grade B | | | | | | | | |
| UE2P1 | LSH (E2000)/UPC, Grade A ⁵ | | | | | | | | |
| NE2 | LSH (E2000)/APC, Grade C | | | | | | | | |
| NE2P2 | LSH (E2000)/APC, Grade B | | | | | | | | |
| NE2P1 | LSH (E2000)/APC, Grade A ⁵ | | | | | | | | |
| NE2P1A | LSH (E2000)/APC, Grade A+ ⁵ | | | | | | | | |
| | | XX⁶ - diameter of cable, fiber | | | XXX - type of fiber | | | | |
| | | 09 | fiber Ø 0.9 mm | OM1 | MM 62.5/125 µm | | | | |
| | | 20 | cable Ø 2.0 mm | OM2-5 | MM 50/125 µm | | | | |
| | | 28 | cable Ø 2.8 mm | S2D | SM 9/125 µm (G.652D) | | | | |
| | | D3 | duplex zipcord 2.0 x 4.2 mm | S5X^{3,4} | SM 9/125 µm (G.655X) | | | | |
| | | D8 | duplex zipcord 2.8 x 5.5 mm | S6 | SM 9/125 µm (G.656) | | | | |
| | | | | S7X³ | SM 9/125 µm (G.657X) | | | | |
| | | | | D/A1 | G.652D & G.657A1 | | | | |

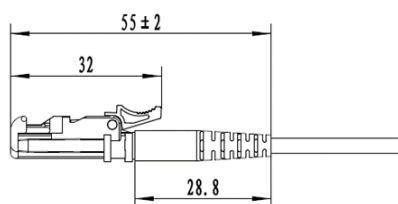
1) Fiber – cable Color code:

| | | | | | | | | | | | |
|-------|-------|-----|--------|--------|-------|------|--------|------|-------|------|-----------|
| BK | BN | RD | OG | YE | GN | BU | VT | GY | WH | PK | TQ |
| Black | Brown | Red | Orange | Yellow | Green | Blue | Violet | Grey | White | Pink | Turquoise |

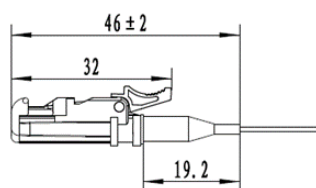
Note:

- 1) Fiber – cable color, not used when color is not defined
- 2) Key color code: BK-black, GY-grey, BU-blue, GN-green, not used – the same key color as connector body
- 3) X – according fiber subtype (e.g. G.657.A1,A2,B3)
- 4) G.655 – various types available (TrueWave, Reduced Slope, TeraLight, Leaf, ...)
- 5) Grade A, A+ is not available for duplex patchcords
- 6) Other cable diameter – on request

Dimensions:



Cable version



Fiber 0.9 mm version

Sample:

NE2-28 S7A1-J-002

LSH/APC patchcord, G.657.A1 fiber, 2 m length

