

LC Duplex to LC Duplex Patch cord, 2 fibres, Zipcord Tight-Buffered Cable, LSZH, 2.0 mm legs

SMF-28® Ultra single-mode (OS2), 3 m

CORNING

Patch cables are used for non-permanent connections between patch panels, transmission equipment, etc. Pre-assembled cables allow for the implementation of complete Plug & Play solutions. When such a solution is adopted with accurate dimensioning and appropriate cable routing, it is possible to install even large cabling systems rapidly.

Features and Benefits

Connectors

- LC Duplex connector according to TIA/EIA-604 -10
- All connectors are tested to FOTP -21.
- Connectors are pre-radius polished to provide the optimal end-face geometry for long-term performance.

Cable

Low smoke (IEC 61034) and zero-halogen (LSZH), flame retardant to IEC 60332-3-24 (C) and noncorrosive to IEC 60754-2 (FRNC)

Cables are metal free; hence, there are no ground-loop or potential-equalisation problems. Completely dry design (without gel)

Colour of outer sheath: OM1, OM2 – orange; OM3, OM4 – turquoise; OS2 – yellow



Standards

Intermateability TIA/EIA-604-10 / TIA/EIA-604-10

Specifications

| General Specifications | |
|------------------------|---------------------|
| Flame rating | LSZH™/FRNC |
| Cable assembly type | Two Fibre |
| Fibre Category | SMF-28® Ultra fibre |

| Temperature Range | |
|---------------------------|-----------------|
| Operation | -20 °C to 60 °C |
| Installation and assembly | -5 °C to 50 °C |
| Storage | -25 °C to 70 °C |

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Design - Connector A

| | |
|------------------|--------------|
| Connector Type | LC Duplex |
| Ferrule Material | Ceramic |
| Polish | UPC |
| Housing material | Composite |
| Housing Colour | Blue |
| Boot type | Individual |
| Boot colour | blue / white |
| Keyed (security) | No |

Mechanical Specifications - Connector A

| | |
|---------------------------------|---------------------------------|
| Durability | ≤ 0.2 dB 500 rematings, FOTP-21 |
| Tensile strength jacketed cable | 44 N |

Optical Specifications - Connector A

| | |
|-------------------------|----------|
| Insertion loss, typical | 0.1 dB |
| Insertion loss, max. | 0.3 dB |
| Reflectance, typical | ≤ -58 dB |

Design - Connector B

| | |
|------------------|--------------|
| Connector Type | LC Duplex |
| Ferrule Material | Ceramic |
| Polish | UPC |
| Housing material | Composite |
| Housing Colour | Blue |
| Boot type | Individual |
| Boot colour | blue / white |
| Keyed (security) | No |

Mechanical Specifications - Connector B

| | |
|---------------------------------|---------------------------------|
| Durability | ≤ 0.2 dB 500 rematings, FOTP-21 |
| Tensile strength jacketed cable | 44 N |

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Optical Specifications - Connector B

| | |
|-------------------------|----------|
| Insertion loss, typical | 0.1 dB |
| Insertion loss, max. | 0.3 dB |
| Reflectance, typical | ≤ -58 dB |

Cable Design

| | |
|-------------------------------|---------------|
| Fibre Count | 2 |
| Outer diameter | 2 mm x 4.1 mm |
| Outer jacket colour | yellow |
| Outer jacket material | LSZH™/FRNC |
| Minimum Bend Radius | 10 mm |
| Crush resistance (reversible) | 1000 N/10 cm |
| Tensile strength | 300 N |

Chemical Characteristics

| | |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
|------|---|

Fibre Specifications

Optical Characteristics (cabled)

| | |
|---|--------------------------------------|
| Fibre name | SMF-28® Ultra TB Cable Optical Fibre |
| Mode-Field Diameter at 1310 nm | 9.2 µm |
| Fibre code | H |
| Coating diameter | 242 µm |
| Cladding diameter | 125 µm |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Maximum attenuation | 0.34 dB/km / 0.34 dB/km / 0.20 dB/km |
| Typical attenuation | 0.32 dB/km / 0.32 dB/km / 0.18 dB/km |
| Serial 1 gigabit ethernet | 5000 m / - |
| Serial 10 gigabit ethernet | 10000 m / 40000 m |
| Cable cutoff wavelength | 1260 nm |
| Dispersion in the range 1285 to 1330 nm | ≤ 3.5 ps / (nm * km) |
| Dispersion @ 1550 nm | ≤ 18 ps / (nm * km) |
| PMD Link Design Value | ≤ 0.04 PS / √km |

Notes: 1) Contact a Corning Customer Care Representative for additional information

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Fibre Specifications

| Optical Characteristics (cabled) | |
|----------------------------------|--|
| PMD maximum individual fibre | $\leq 0.1 \text{ PS} / \sqrt{\text{km}}$ |
| Fibre compliance | ITU-T G.652.D and ITU-T G.657.A1 |

Notes: 1) Contact a Corning Customer Care Representative for additional information

Ordering Information

| | |
|---------------------|--|
| Part Number | 040402H5Z20003M |
| Product Description | LC Duplex to LC Duplex patch cord on 2-fibres Zipcord cable, with 2 mm legs, and a low-smoke, zero-halogen sheath. Length is variable. |
| EAN Code | 4042673583783 |
| Length | 3 m |
| Weight | 0.0315 kg |

Shipping Information

| | |
|--------------------------------|--------------------------|
| Packing type | Cardboard box |
| Packing dimensions (L x W x H) | 380 mm x 250 mm x 180 mm |
| Units Per Delivery | 1/1 |



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