

Professional 2.0 mm Single-mode Patch Cord, LSZH™, CPR Dca Corning® SMF-28® Ultra, Single-mode, LC UPC Duplex to LC UPC Duplex, 1 m

CORNING

Part Number:
040402G5Z20001M

Corning® SMF-28® Ultra single-mode fibres combine industry-leading attenuation and improved macrobend performance. As the industry's leading supplier of fibre, our state-of-the-art manufacturing process for cable assemblies ensures unsurpassed fibre and connector performance that meets and exceeds industry standards for connector reflectance and insertion loss. Low-loss connectivity enables system design flexibility for your application.

Features and Benefits

State-Of-The-Art Manufacturing Processes

Corning proprietary manufacturing processes and advanced technology result in unsurpassed product consistency

Global operations

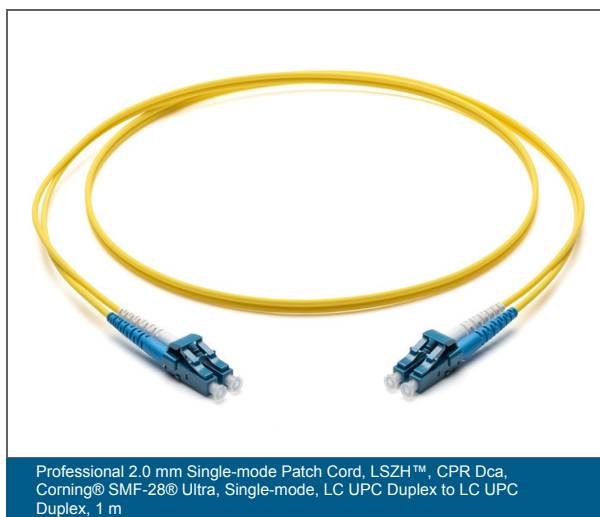
Worldwide manufacturing facilities and end-to-end vertical integration across the entire process ensure reliable supply and mitigate trade barriers or supply disruptions

Flexible design options

Choice of materials for strength elements and fibre properties dependent on application requirements

Superior Performance Testing

Every termination is tested to ensure the highest in network performance



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Specifications

| General Specifications | |
|------------------------|---|
| Flame rating | LSZH/FRNC |
| Fibre category | Single-mode (OS2) |
| Product category | Patch Cord |
| Cable assembly type | Patch cords |
| Environment | Indoor |
| Application | Fiber to the Premises (FTTP), In-Building Network (IBN), Local Area Network (LAN), Central Office |
| Cable Type | Tight-buffered |

| Standards | |
|------------------|---|
| Fibre Standards | ITU-T G.657.A1, ITU-T G.652.D |
| Reaction to Fire | Dca |
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
| Intermateability | IEC 61754 |

| Environmental Conditions | |
|---------------------------------|-----------------|
| Temperature range, installation | -10 °C to 60 °C |
| Temperature range, operation | -10 °C to 60 °C |
| Temperature range, storage | -10 °C to 60 °C |

| Design | |
|-----------------------|-------------------------|
| Fibre count | 2 |
| Outer jacket material | LSZH/FRNC |
| Outer jacket colour | Yellow |
| Polarity | Crossed, TIA-568 Type-B |
| Fibres per port | 2 |

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| Mechanical Characteristics | |
|-------------------------------|--------------|
| Minimum bend radius | 10 mm |
| Nominal outer diameter | 2 mm |
| Crush resistance | 1000 N/10 cm |
| Min. bend radius installation | 20 mm |
| Min. bend radius operation | 10 mm |

| Optical Characteristics | |
|---|--------------------------------------|
| Fibre code | Z |
| Performance option code | 25 |
| Fibre category | OS2 |
| Fibre Type | Single-mode (OS2) / 250 µm |
| Fibre name | Bend-Improved Single-mode (OS2) |
| Maximum Attenuation | 0.38 dB/km / 0.38 dB/km / 0.25 dB/km |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Fibre compliance | ITU-T G.652.D and ITU-T G.657.A1 |
| Fibre core diameter | 8.2 µm |
| Cladding diameter | 125 µm |
| Coating diameter | 242 µm |
| Dispersion @ 1550 nm | ≤ 18 [ps/(nm*km)] |
| Dispersion @ 1625 nm | ≤ 22 [ps/(nm*km)] |
| Cable cutoff wavelength | 1260 nm |
| Mode-Field Diameter at 1310 nm | 9.2 µm |
| Mode-Field Diameter at 1550 nm | 10.4 µm |
| PMD Link Design Value | ≤ 0.04 ps/√km |
| PMD (Polarization Mode Dispersion) maximum individual fibre | ≤ 0.1 ps/√km |

| Specifications - Connector A | |
|------------------------------|----------|
| Reflectance, typical | ≤ -58 dB |

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| Specifications - Connector A | |
|---------------------------------|---|
| Polish | UPC |
| Insertion loss, typical | 0.1 dB |
| Insertion loss, max. | 0.25 dB |
| Tensile strength jacketed cable | 70 N |
| Durability | ≤ 0.2 dB change, 500 rematings, FOTP-21 |
| Boot colour | Blue / white |
| Connector type | LC UPC Duplex |
| Ferrule material | Ceramic |
| Housing colour | Blue |
| Housing material | Composite |
| Boot type | Duplex |
| Reflectance | ≤ -45 dB |

| Specifications - Connector B | |
|---------------------------------|---|
| Reflectance, typical | ≤ -58 dB |
| Polish | UPC |
| Insertion loss, typical | 0.1 dB |
| Insertion loss, max. | 0.25 dB |
| Tensile strength jacketed cable | 70 N |
| Durability | ≤ 0.2 dB change, 500 rematings, FOTP-21 |
| Boot colour | Blue / white |
| Connector type | LC UPC Duplex |
| Ferrule material | Ceramic |
| Housing colour | Blue |
| Housing material | Composite |
| Boot type | Duplex |
| Reflectance | ≤ -45 dB |

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| Dimensions | |
|----------------|------|
| Length | 1 m |
| Outer diameter | 2 mm |

| Ordering Information | |
|----------------------|-----------------|
| Product Number | 040402G5Z20001M |
| Packaging method | Box |
| Units per delivery | 1/1 |
| Shipping Height | 190 mm |
| Shipping Width | 250 mm |
| Shipping Depth | 380 mm |



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