

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

50 µm ClearCurve® multimode OM4, Low-Loss, 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-equalization 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         | 50 µm MM (OM4) |

| Temperature Range         |                 |
|---------------------------|-----------------|
| Operation                 | -10 °C to 60 °C |
| Installation and assembly | -5 °C to 50 °C  |
| Storage                   | -10 °C to 60 °C |

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## Design - Connector A

|                  |              |
|------------------|--------------|
| Connector type   | LC Duplex    |
| Ferrule Material | Ceramic      |
| Polish           | PC           |
| Housing material | Composite    |
| Housing Colour   | Black        |
| Boot type        | Individual   |
| Boot colour      | Aqua / 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.    | 0.15 dB |

## Design - Connector B

|                  |              |
|------------------|--------------|
| Connector type   | LC Duplex    |
| Ferrule Material | Ceramic      |
| Polish           | PC           |
| Housing material | Composite    |
| Housing Colour   | Black        |
| Boot type        | Individual   |
| Boot colour      | Aqua / 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.    | 0.15 dB |

## Cable Design

|                               |               |
|-------------------------------|---------------|
| Fibre count                   | 2             |
| Outer diameter                | 2 mm x 4.1 mm |
| Outer jacket colour           | Turquoise     |
| 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                              | G50/125 ULTRA-BEND 7.5   |
| Fibre code                              | T                        |
| Fibre core diameter                     | 50 µm                    |
| Fibre Category                          | OM4                      |
| Wavelengths                             | 850 nm / 1300 nm         |
| Maximum attenuation                     | 2.8 dB/km / 1.0 dB/km    |
| Typical attenuation                     | 2.4 dB/km / 0.8 dB/km    |
| Serial 1 gigabit ethernet               | 1100 m / 600 m           |
| Serial 10 gigabit ethernet              | 550 m / -                |
| Min. overfilled launch (OFL) bandwidth  | 3500 MHz*km / 500 MHz*km |
| Minimum effective modal bandwidth (EMB) | 4700 MHz*km / -          |
| Induced attenuation @ 7.5 mm radius     | < 0.2 dB / -             |

- Notes:
- 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
  - 2) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
  - 3) Improved attenuation and bandwidth options available
  - 4) Bend-insensitive single-mode fibres available on request.
  - 5) Contact a Corning Customer Care Representative for additional information

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## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | E050502Q5Z20003M   |
| 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            | 4042673393931  |
| 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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