

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

50 µm ClearCurve® multimode (OM2), 7 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         | 50 µm MM (OM2) |

| 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           | PC            |
| Housing material | Composite     |
| Housing Colour   | black         |
| Boot type        | Individual    |
| Boot colour      | Black / 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 | 0.35 dB |
| Insertion loss, max.    | 0.5 dB  |

## Design - Connector B

|                  |               |
|------------------|---------------|
| Connector Type   | LC Duplex     |
| Ferrule Material | Ceramic       |
| Polish           | PC            |
| Housing material | Composite     |
| Housing Colour   | black         |
| Boot type        | Individual    |
| Boot colour      | Black / 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 | 0.35 dB |
| Insertion loss, max.    | 0.5 dB  |

## Cable design

|                               |               |
|-------------------------------|---------------|
| Fibre Count                   | 2             |
| Outer diameter                | 2 mm x 4.1 mm |
| Outer jacket colour           | orange        |
| 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 2002/95/EG |
|------|---|

## Fibre Specifications

### Optical Characteristics (cabled)

|   |                         |
|---|-------------------------|
| Fibre name                              | G50/125 ULTRA-BEND 7.5  |
| Fibre core diameter                     | 50 µm                   |
| Fibre Category                          | OM2                     |
| Fibre code                              | T                       |
| 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               | 750 m / 600 m           |
| Serial 10 gigabit ethernet              | 150 m / -               |
| Min. overfilled launch (OFL) bandwidth  | 700 MHz*km / 500 MHz*km |
| Minimum effective modal bandwidth (EMB) | 950 MHz*km / -          |
| Induced attenuation @ 7.5 mm radius     | < 0.2 dB / -            |

Notes: 1) 50 µm multimode fibre macrobend loss  $\leq 0.2$  dB at 850 nm for two turns around 7.5 mm radius mandrel  
2) Improved attenuation and bandwidth options available  
3) Bend-insensitive single-mode fibres available on request.  
4) Contact a Corning Customer Care Representative for additional information

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## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | 050502B5Z20007M  |
| 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. |
| Length              | 7 m  |
| Weight              | 0.0655 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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