# LC to SC Patch cord, 1 fibre, tight-buffered cable, LSZH, 2.8 mm legs

## single-mode (OS2), 4 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 connector according to TIA/EIA-604 -10, SC connector according to TIA/EIA-604 -3
- 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

Part Number: 025801R3Z31004M
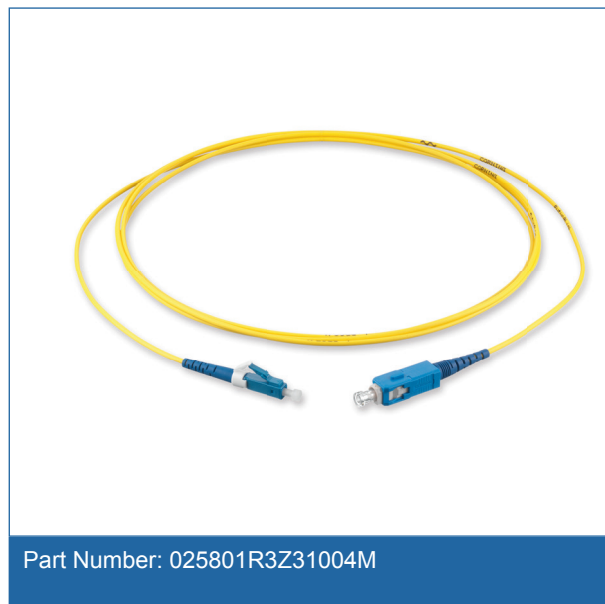
## Standards

| | |
|---|---|
| **Intermateability** | TIA/EIA-604-10 / TIA/EIA-604-3 |

## Specifications

| General Specifications | |
|---|---|
| Flame rating | LSZH™/FRNC |
| Cable assembly type | Single Fibre |
| Fibre Category | Single-mode (OS2) |

| 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 |
| Ferrule Material | Ceramic |
| Polish | UPC |
| Housing material | Composite |
| Housing Colour | Blue |
| Boot type | Individual |
| Boot colour | Blue |
| Keyed (security) | No |

## Mechanical Specifications - Connector A

| | |
|---|---|
| Durability | ≤ 0.2 dB 1000 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 | SC |
| Ferrule Material | Ceramic |
| Polish | UPC |
| Housing material | Composite |
| Housing Colour | Blue |
| Boot type | Individual |
| Boot colour | Blue |
| Keyed (security) | No |

## Mechanical Specifications - Connector B

| | |
|---|---|
| Durability | ≤ 0.2 dB 1000 rematings, FOTP-21 |
| Tensile strength jacketed cable | 44 N |

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| Optical Specifications - Connector B | |
|---|---|
| Insertion loss, typical | 0.15 dB |
| Insertion loss, max. | 0.4 dB |
| Reflectance, typical | ≤ -59 dB |

| Cable Design | |
|---|---|
| Fibre Count | 1 |
| Outer diameter | 2.8 mm |
| Outer jacket colour | Yellow |
| Outer jacket material | LSZH™/FRNC |
| Minimum Bend Radius | 30 mm |
| Crush resistance (reversible) | 1000 N/10 cm |
| Tensile strength | 150 N |

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

## Fibre Specifications

| Optical Characteristics (cabled) | |
|---|---|
| Fibre name | E9/125 SMF28e+ |
| Fibre core diameter | 9 µm |
| Fibre Category | OS2 |
| Fibre code | E |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Linear Attenuation | 0.38 dB/km / 0.38 dB/km / 0.25 dB/km |
| Serial 1 gigabit ethernet | 5000 m / - / - |
| Serial 10 gigabit ethernet | 10000 m / - / 40000 m |
| Cable cutoff wavelength | 1260 nm |

Notes:  1) *Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.*
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 | 025801R3Z31004M |
|---|---|
| Product Description | LC to SC patch cord on single-fibre cable, with an outer diameter of 2.8 mm and a low-smoke, zero-halogen sheath. Length is variable. |
| EAN Code | 4056418783512 |
| Length | 4 m |
| Weight | 0.04 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 |

**RoHS COMPLIANT**

**CORNING**