

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

Single-mode (OS2), 1 m

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Patch cables are used for non-permanent connections between patch panels, transmission equipment, etc. Pre-assembled cables allow for the implementation of complete "plug and 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

- 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-equalisation problems

Completely dry design (without gel)

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



## Standards

Intermateability TIA/EIA-604-3 / TIA/EIA-604-3

## Specifications

### General Specifications

Flame Rating	LSZH™/FRNC
Cable Assembly Type	Single Fibre
Fibre Category	Single-mode (OS2)

### 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	SC
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	0.15 dB
Insertion loss, max.	0.4 dB
Reflectance, typical	≤ -59 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	200 N

## Chemical characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fibre Specifications

### Optical Characteristics (cabled)

Fibre Name	E9/125 SMF28e+
Fibre Core Diameter	9 µm
Fibre Category	OS2
Fibre Code	U
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™/Pretium 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	585801R3Z31001M
Product Description	SC 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.
Length	1 m
Weight	0.02 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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