

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

single-mode (OS2), 2 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 & 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

- FC connector according to TIA/EIA-604 -4
- 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: 545401R3Z31002M

## Standards

Intermateability TIA/EIA-604-4 / TIA/EIA-604-4

## 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	FC
Ferrule Material	Ceramic
Polish	UPC
Housing material	Metal
Housing Colour	Nickel
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	FC
Ferrule Material	Ceramic
Polish	UPC
Housing material	Metal
Housing Colour	Nickel
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	$\leq -59$ 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 2011/65/EU
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## 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	545401R3Z31002M
Product Description	FC to FC 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	4056418116730
Length	2 m
Weight	0.03 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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