

# Professional 2.0 mm Single-mode Patch Cord, LSZH™, CPR Dca Corning® SMF-28® Ultra, Single-mode, LC UPC Duplex to LC UPC Duplex, 5 m

CORNING

**Part Number:**  
**040402G5Z20005M**

Corning® SMF-28® Ultra single-mode fibres combine industry-leading attenuation and improved macrobend performance. As the industry's leading supplier of fibre, our state-of-the-art manufacturing process for cable assemblies ensures unsurpassed fibre and connector performance that meets and exceeds industry standards for connector reflectance and insertion loss. Low-loss connectivity enables system design flexibility for your application.

## Features and Benefits

### State-Of-The-Art Manufacturing Processes

Corning proprietary manufacturing processes and advanced technology result in unsurpassed product consistency

### Global operations

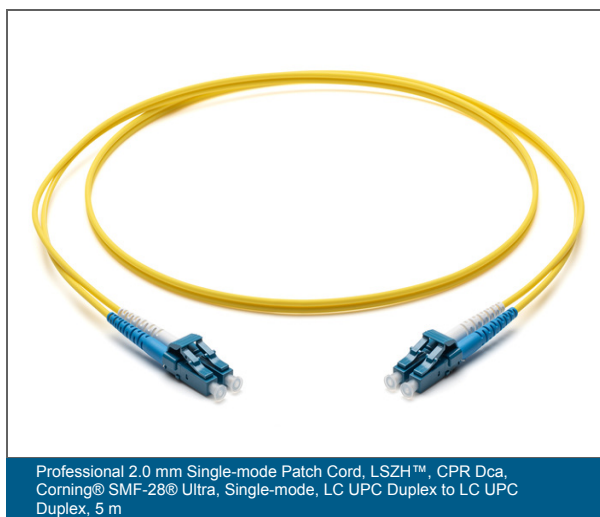
Worldwide manufacturing facilities and end-to-end vertical integration across the entire process ensure reliable supply and mitigate trade barriers or supply disruptions

### Flexible design options

Choice of materials for strength elements and fibre properties dependent on application requirements

### Superior Performance Testing

Every termination is tested to ensure the highest in network performance



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## Specifications

### General Specifications

Flame rating	LSZH/FRNC
Fibre category	Single-mode (OS2)
Product category	Patch Cord
Cable assembly type	Patch cords
Environment	Indoor
Application	Fiber to the Premises (FTTP), In-Building Network (IBN), Local Area Network (LAN), Central Office
Cable Type	Tight-buffered

### Standards

Fibre Standards	ITU-T G.657.A1, ITU-T G.652.D
Reaction to Fire	Dca
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Intermateability	IEC 61754

### Environmental Conditions

Temperature range, installation	-10 °C to 60 °C
Temperature range, operation	-10 °C to 60 °C
Temperature range, storage	-10 °C to 60 °C

### Design

Fibre count	2
Outer jacket material	LSZH/FRNC
Outer jacket colour	Yellow
Polarity	Crossed, TIA-568 Type-B
Fibres per port	2

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## Mechanical Characteristics

Minimum bend radius	10 mm
Nominal outer diameter	2 mm
Crush resistance	1000 N/10 cm
Min. bend radius installation	20 mm
Min. bend radius operation	10 mm

## Optical Characteristics

Fibre code	Z
Performance option code	25
Fibre category	OS2
Fibre Type	Single-mode (OS2) / 250 µm
Fibre name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.38 dB/km / 0.38 dB/km / 0.25 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Fibre core diameter	8.2 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]
Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 µm
Mode-Field Diameter at 1550 nm	10.4 µm
PMD Link Design Value	≤ 0.04 ps/√km
PMD (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/√km

## Specifications - Connector A

Reflectance, typical	≤ -58 dB
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Specifications - Connector A	
Polish	UPC
Insertion loss, typical	0.1 dB
Insertion loss, max.	0.25 dB
Tensile strength jacketed cable	70 N
Durability	≤ 0.2 dB change, 500 rematings, FOTP-21
Boot colour	Blue / white
Connector type	LC UPC Duplex
Ferrule material	Ceramic
Housing colour	Blue
Housing material	Composite
Boot type	Duplex
Reflectance	≤ -45 dB

Specifications - Connector B	
Reflectance, typical	≤ -58 dB
Polish	UPC
Insertion loss, typical	0.1 dB
Insertion loss, max.	0.25 dB
Tensile strength jacketed cable	70 N
Durability	≤ 0.2 dB change, 500 rematings, FOTP-21
Boot colour	Blue / white
Connector type	LC UPC Duplex
Ferrule material	Ceramic
Housing colour	Blue
Housing material	Composite
Boot type	Duplex
Reflectance	≤ -45 dB

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Dimensions	
Length	5 m
Outer diameter	2 mm

Ordering Information	
Product Number	040402G5Z20005M
Packaging method	Box
Units per delivery	1/1
Shipping Height	190 mm
Shipping Width	250 mm
Shipping Depth	380 mm



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