

Professional 2.0 mm Single-mode Patch Cord, LSZH™, CPR Dca Corning® SMF-28® Ultra, Single-mode, LC UPC Duplex to LC UPC Duplex, 20 m



Part Number:
040402G5Z20020M

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

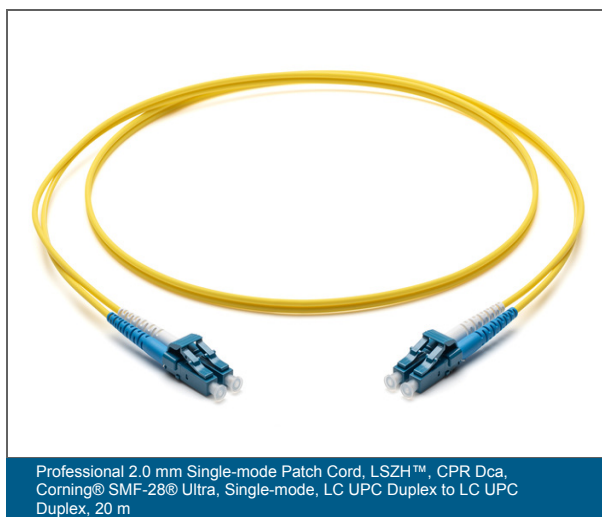
Worldwide manufacturing facilities and end-to-end vertical integration across the entire process ensure reliable supply and mitigate trade barriers or supply disruptions

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	20 m
Outer diameter	2 mm

Ordering Information	
Product Number	040402G5Z20020M
Packaging method	Box
Units per delivery	1/1
Shipping Height	190 mm
Shipping Width	250 mm
Shipping Depth	380 mm



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: • www.corning.com/opcomm/emea

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