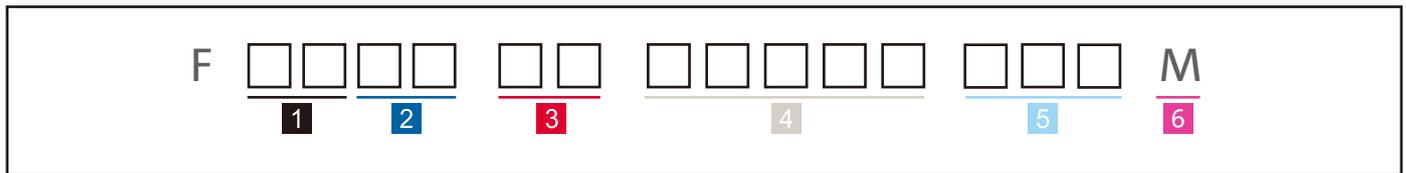


Access networks have a larger presence of connectors vs. long-haul networks and are the most constrained part of the network in terms of power budget. Low-loss cable assemblies allow operators to approach insertion loss equivalent to fusion splicing, with the additional benefit of rapid deployments, without the complexities of fusion splicers and scarcity of a highly skilled workforce. Increased margins could be translated into extended reach and enable extra flexibility for repairs or MAC (moves, adds, and changes) in the network link.

Ordering Information

Corning Low-Loss Cords and Pigtails can be ordered in 5 easy steps. The steps involve the selection of connector(s), fibre count, fibre type, cable type, and length. The steps are listed below.



1 Select first connector code.

See Table A

4 Select cable code based on desired construction.

See Table B

2 Select second connector code.

See Table A

5 Select cable assembly length.

001-199

See Note 3

3 Select fibre count.

01 Simplex

02 Duplex

6 Defines unit of measure.

M = Metres

Notes:

1) Select connector code based on the type of adapter used at the patch panel and the electronic interface connector.

A) Always use the lowest code first when constructing the part number; numbers go before letters.

B) Letter codes follow alphabetical order.

C) Pigtails begin with "00".

Examples:

F00X201G1Z09001.5M

FW3X101J1Z16004M

2) Pigtails 900 µm are also available in kits of 12 pieces with the following fibre and buffer colours:

Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise

Part number scheme to be used:

FK12- (1) (2) (3) (4) AA (5) (6)

Example: FK12-00W101G1Z09AA002M

3) For lengths greater than 100 m please contact a Corning Customer Care at 00800 2676 4641 or cc.emea@corning.com

4) To include half-metre steps, add .5 m (example: FX2X201J1Z28002.5M)

Table A: Connector Types and Specifications

Single-Mode Connectors							
Type	Connector Polish	Code	Maximum Insertion Loss (dB)	Maximum Reflectance (dB)	Ferrule	Housing	Connector Length (mm)
Pigtail	-	00	-	-	-	-	-
LC Types							
LC Simplex	APC	W3	≤ 0.15	≤ -60	Ceramic	Composite	50
	UPC	W1	≤ 0.15	≤ -45	Ceramic	Composite	50
LC Duplex	APC	W4	≤ 0.15	≤ -60	Ceramic	Composite	50
	UPC	W2	≤ 0.15	≤ -45	Ceramic	Composite	50
SC Types							
SC Simplex	APC	X1	≤ 0.15	≤ -60	Ceramic	Composite	57
	UPC	X2	≤ 0.15	≤ -45	Ceramic	Composite	57
	APC9	X3	≤ 0.15	≤ -60	Ceramic	Composite	57
SC Duplex	APC	X4	≤ 0.15	≤ -60	Ceramic	Composite	57
	UPC	X5	≤ 0.15	≤ -45	Ceramic	Composite	57
Other Types							
FC	APC	W6	≤ 0.15	≤ -60	Ceramic	Composite	41.1
	UPC	W5	≤ 0.15	≤ -45	Ceramic	Composite	41.1
LSH	APC	GA	≤ 0.15	≤ -60	Ceramic	Composite	64.2
	UPC	GU	≤ 0.15	≤ -45	Ceramic	Composite	64.2

Connector designs comply with IEC 61754-2 (ST), IEC 61754-3 (LSA), IEC 61754-4 (SC), IEC 61754-13 (FC), IEC 61754-15 (LSH), IEC 61754-20 (LC)

Durability according to FOTP-21: < 0.2 dB change. Matings: 1000 for SC; 500 for LC connectors

Tensile strength according to IEC 61300-2-4: 5 N for 900 µm pigtails; 50 N for patch cords up to 2.8 mm

Table B: Cable Diameters and Fibre Types

Core Diameter	9 µm	9 µm	9 µm	9 µm
Fibre Name	Corning® SMF-28® Ultra	ClearCurve® LBL	ClearCurve LBL	ClearCurve ZBL
Fibre Type/Class	G.657.A1	G.657.A2	G.657.A2	G.657.B3
Fibre Code	G	J	J	U
900 µm Buffered Fibre				
0.9 mm	G1Z09	J1Z09	J1Z09 -YE	U1Z09
Cable Jacket Colour	Yellow	White	Yellow*	White
1-Fibre Simplex LSZH™/FRNC Cable				
1.2 mm	G1Z12	J1Z12	J1Z12-YE	U1Z12
1.2 mm Bca	G1B12	J1B12	J1B12-YE	U1B12
1.6 mm	G1Z16	J1Z16	J1Z16-YE	U1Z16
1.6 mm Bca	G1B16	J1B16	J1B16-YE	U1B16
1.8 mm	G1Z18	J1Z18	J1Z18-YE	U1Z18
1.8 mm Bca	G1B18	J1B18	J1B18-YE	U1B18
2.0 mm	G1Z20	J1Z20	J1Z20-YE	U1Z20
2.4 mm	G1Z24	J1Z24	J1Z24-YE	U1Z24
2.8 mm	G1Z28	J1Z28	J1Z28-YE	U1Z28
3.0 mm	G1Z30	J1Z30	J1Z30-YE	U1Z30
Cable Jacket Colour	Yellow	White	Yellow*	White
1-Fibre Simplex LSZH/FRNC Cable for Extended Temperatures, from -40°C to +80°C				
1.2 mm	G1C12	J1C12	J1C12-YE	U1C12
1.6 mm	G1C16	J1C16	J1C16-YE	U1C16
1.8 mm	G1C18	J1C18	J1C18-YE	KU1C18
2.0 mm	G1C20	J1C20	J1C20-YE	U1C20
2.4 mm	G1C24	J1C24	J1C24-YE	U1C24
2.8 mm	G1C28	J1C28	J1C28-YE	U1C28
3.0 mm	G1C30	J1C30	J1C30-YE	U1C30
Cable Jacket Colour	Yellow	White	Yellow*	White
1-Fibre Simplex LSZH/FRNC Cable with Steel-Armouring for Harsh Environments				
2.0 mm	G1A20	J1A20	J1A20-YE	U1A20
3.0 mm	G1A30	J1A30	J1A30-YE	U1A30
Cable Jacket Colour	Yellow	White	Yellow*	
1-Fibre Simplex LSZH/FRNC Cable for Outdoor Use (Steel-Armouring, UV-Resistance, Waterblocking Elements)				
2.0 mm	G1U20	J1U20		U1U20
3.0 mm	G1U30	J1U30		U1U30
Cable Jacket Colour	Black	Black		Black

* Yellow jacket colour for LBL is available by adding “-YE” to the end of the part number (example: FX1X101J1Z20001M-YE)

Table B: Cable Diameters and Fibre Types (Continued)

Core Diameter	9 µm	9 µm	9 µm	9 µm
Fibre Name	Corning® SMF-28® Ultra	ClearCurve LBL	ClearCurve LBL	ClearCurve ZBL
Fibre Type/Class	G.657.A1	G.657.A2	G.657.A2	G.657.B3
Fibre Code	G	J	J	U
2-Fibre Duplex LSZH™/FRNC Cable				
Zipcord 1.6 mm	G2Z16	J2Z16	J2Z16-YE	U2Z16
Zipcord 1.8 mm	G2Z18	J2Z18	J2Z18-YE	U2Z18
Zipcord 2.0 mm	G2Z20	J2Z20	J2Z20-YE	U2Z20
Zipcord 2.0 mm Bca	G2B20	J2B20	J2B20-YE	U2B20
Zipcord 3.0 mm	G2Z30	J2Z30	J2Z30-YE	U2Z30
Cable Jacket Colour	Yellow	White	Yellow*	White
2-Fibre Duplex LSZH/FRNC Cable for Extended Temperatures, from -40°C to +80°C				
Zipcord 1.6 mm	G2C16	J2C16	J2C16-YE	U2C16
Zipcord 1.8 mm	G2C18	J2C18	J2C18-YE	U2C18
Zipcord 2.0 mm	G2C20	J2C20	J2C20-YE	U2C20
Zipcord 3.0 mm	G2C30	J2C30	J2C30-YE	U2C30
Cable Jacket Colour	Yellow	White	Yellow*	White
2-Fibre Duplex LSZH/FRNC Cable with Steel-Armouring for Harsh Environments				
Zipcord 2.0 mm	G2A20	J2A20	J2A20-YE	U2A20
Cable Jacket Colour	Yellow	White	Yellow*	White
2-Fibre Duplex LSZH/FRNC Cable for Outdoor Use (Steel-Armouring, UV-Resistance, Waterblocking Elements)				
Zipcord 2.0 mm	G2U20	J2U20		U2U20
Cable Jacket Colour	Black	Black		Black

* Yellow jacket colour for LBL is available by adding “-YE” to the end of the part number (example: FX1X10ZJ2Z20001M-YE)

Connectorised Cable Characteristics

Characteristic	Cable Diameter		
	900 µm	1.2 – 2.0 mm	2.4 – 2.8 mm
Operating Temperature	-20°C to 70°C*	-20°C to 70°C*	-20°C to 70°C*
Bend Radius (Single-Mode)	15 mm	10 mm	15 mm
Bend Radius (Multimode)	15 mm	10 mm	15 mm
Crush Resistance	N/A	500 N/10 cm	500 N/10 cm

The cable jacket of our low-loss patch cords and pigtails is REACH, RoHS, and LSZH compliant.

* Please note that assemblies with Cable for Extended Temperatures reach -40°C to +80°C

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