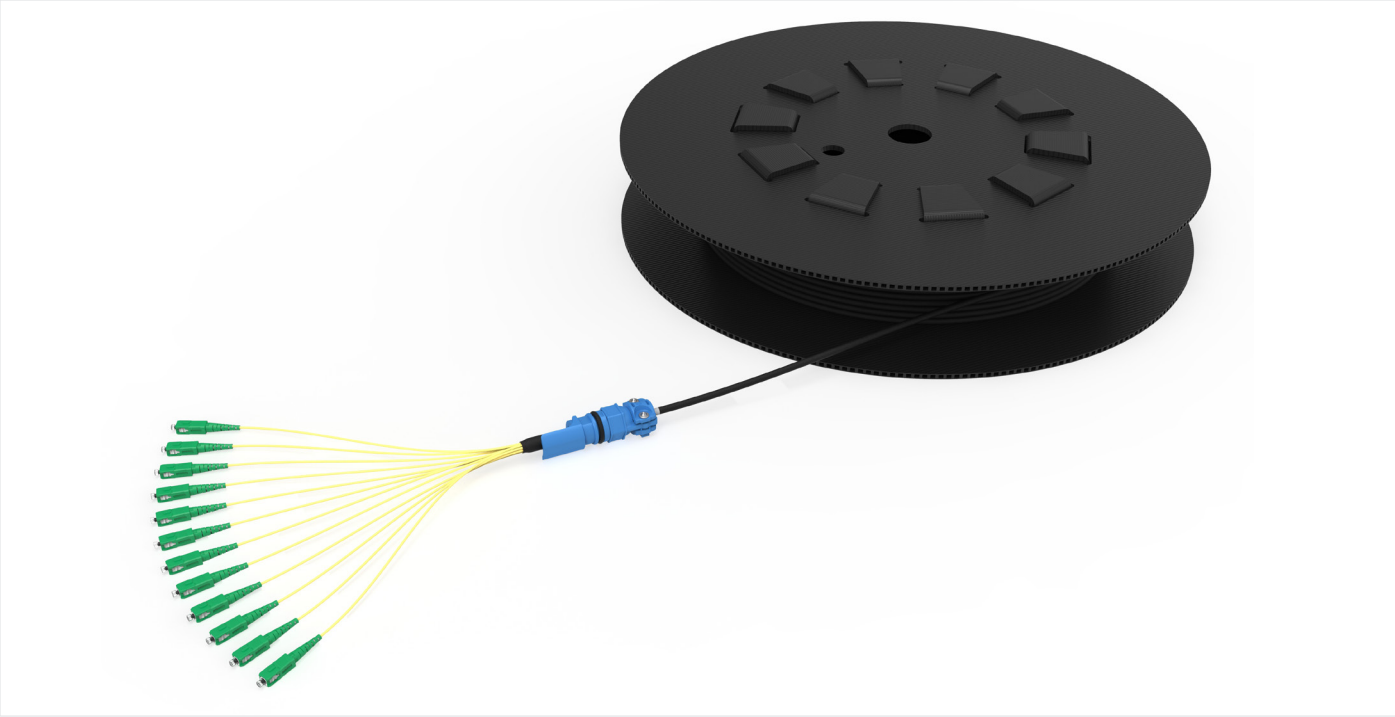
CORNING

MiniXtend® Outdoor Cable Assembly



12 F MiniXtend LT E9U with SC APC on one end, 0.5 m 900 µm legs, 50 m

4-24 F, Corning® SMF-28® Ultra Single-Mode Fibre (G.652.D/G.657.A1) or 4-24 F, Corning® ClearCurve® LBL Fibre (G.657.A2/B2), Binderless* FastAccess™ Technology

As an industry leader in optical connectivity products, Corning designs and manufactures the MiniXtend® cable assembly with factory-terminated connectors to deliver an immediate, ready-to-install micro-cable in the last portion of an optical network between the distribution network and the subscriber premises.

Corning's MiniXtend outdoor cable is a dielectric, miniaturized loose tube designed for microduct systems using air-assisted installation methods. The cable features our binderless* FastAccess™ technology designed to eliminate the use of binder and waterblocking yarns and tapes, reducing installation time and the risk of cable or fibre damage.

This cable can also feature Corning® SMF-28® Ultra single-mode fibre, which combines industry-leading attenuation and improved macrobend performance in one fibre. This full-spectrum fibre is G.652.D and G.657.A1 compliant. At the same time, it remains fully backward-compatible with existing single-mode fibres with 9.8 µm mode-field diameter for seamless integration into existing access networks. For more challenging environments, this cable can also feature Corning® ClearCurve® LBL fibre, which exceeds the ITU-T G.657.A2/B2 recommendation, delivering enhanced macrobend performance while remaining compatible with G.652.D fibres.

MiniXtend cable assembly is best suited to work with Corning BPEO Closures. These closures utilize our External Cable Assembly Module (ECAM) built-in, IP68, entry port system design to allow plug-and-play capability into the front side of the BPEO Closures.

*Corning's proprietary binderless FastAccess™ technology refers to the combination of a Corning FastAccess technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and waterblocking tapes.

Features	Benefits
Faster Connectivity	The assembly enables direct connectivity inside the terminal closure, reducing installation times by up to 2.5x
Speed of Deployment	Capable of microduct installation distances greater than 2,000 m and speeds up to 150 m/min 70% faster installation time with our binderless* FastAccess™ Technology
Smaller Profile	10x better macrobend loss than G.652.D standard fibres allow for reduced bend-radius
Extended Link Length	10% lower fibre attenuation over conventional ITU-T G.652 fibre types results in up to 20% coverage
Reliability	Our connectors are pre-radius polished to provide the optimal end-face geometry for long-term performance
Dual-Ended or Pigtailed Versions	Assembly available with one or both ends terminated in SC APC connectors
Leg Options	Available with 2.0 or 0.9 mm fan-outs and different lengths to accommodate different connectivity options
Flexible Length Offerings	10 to 300 m (other lengths available)
Smart Packaging	Delivered in drums to improve logistics and handleability

Specifications				
Connector	Simplex SC APC	Simplex SC UPC	Simplex LC APC	Simplex LC UPC
Design	SC type, ceramic ferrule, composite housing, individual boot, non-keyed		LC type, ceramic ferrule, composite housing, individual boot, non-keyed	
Maximum Insertion Loss	0.40 dB	0.25 dB	0.40 dB	0.25 dB
Maximum Reflectance	-65 dB	-55 dB	-65 dB	-55 dB
Durability	≤ 0.2 dB 1000 rematings, FOTP-21			
Cable				
Name	MiniXtend® cable			
Cable Type	Stranded loose tube dielectric micro-cable			
Application	Outdoor (microduct applications)			
Fibre Count	12			
Design	12 fibres per tube, 6 tube positions, 1 active tube, 5 filling elements			
Buffer Tube Diameter	1.4 mm			
Outer Jacket Material	High-Density Polyethylene (HDPE) - Black			
Weight	23 kg/km			
Nominal Outer Diameter	5.3 mm			
Min. Bend Radius Installation	106 mm			
Min. Bend Radius Operation	80 mm			
Max. Tensile Strength, Short Term	350N			
Crush Resistance	1000N/10cm			
Max. Tension (NESC® Heavy/Medium/Light)	1283N/1208N/1168N			

Specifications		
Fibre	Corning® SMF-28® Ultra Fibre	Corning® ClearCurve® LBL Fibre
Type	Single-mode	Single-mode
Fibre Category	ITU-T G.652.D and ITU-T G.657.A1	ITU-T G.657.A2/B2
Maximum Attenuation (1310 nm/1383 ± 3 nm/1550 nm/1625 nm)	≤ 0.32 dB/km / ≤ 0.32 dB/km / ≤ 0.18 dB/km / ≤ 0.20 dB/km	≤ 0.35 dB/km / ≤ 0.35 dB/km / ≤ 0.20 dB/km / ≤ 0.23 dB/km
Macrobend Loss 1 turn x 10 mm radius @ 1550 nm	≤ 0.50 dB	N/A
Macrobend Loss 1 turn x 10 mm radius @ 1625 nm	≤ 1.5 dB	N/A
Macrobend Loss 1 turn x 7.5 mm radius @ 1550 nm	N/A	≤ 0.4 dB
Macrobend Loss 1 turn x 7.5 mm radius @ 1625 nm	N/A	≤ 0.8 dB
Cable Cutoff Wavelength	≤ 1260 nm	≤ 1260 nm
Mode Field Diameter (1310 nm/1550 nm)	9.2 ± 0.4 µm/10.4 ± 0.5 µm	8.6 ± 0.4 µm/9.65 ± 0.5 µm
Dispersion (1310 nm/1550 nm)	≤ 18.0 ps/(nm·km) / ≤ 22.0 ps/(nm·km)	≤ 18.0 ps/(nm·km) / ≤ 23.0 ps/(nm·km)
Temperature Range		
Storage	-40°C to 70°C	
Installation	-5°C to 60°C	
Operation	-40°C to 70°C	
Standards		
RoHS	Free of hazardous substances according to RoHS 2002/95/EG	

For any other variation of this product consult with your sales representative

Ordering Information

1	2	3	4	5	6	7	8	9	10
□	□ □	□ □	□ □	□ □	□ M X F	□ □		C	□ □ □ M

1 Pulling grip and sealing options

C = No pulling grip
A = 1 pulling grip (on external side of the reel)
B = 2 pulling grips
E = No pulling grip, 1 ECAM sealing for BPEO closures
F = 1 pulling grip, 1 ECAM sealing for BPEO closures

2 Select 1st connector

00 = No Connector (Pigtail)
02 = LC UPC Simplex
22 = LC APC Simplex
44 = SC APC Simplex
58 = SC UPC Simplex

3 Select 2nd connector

Select connector code two.
See options listed above.

4 Select fibre count

04 = 4 fibres
06 = 6 fibres
08 = 8 fibres
12 = 12 fibres
16 = 16 fibres
24 = 24 fibres

5 Select fibre type

G = E9 ULTRA
J = LBL
U = ZBL

6 Select drop cable type

1MXF = 12 F - 24 F MiniXtend®
Loose Tube
2MXF = 4 F -12 F MiniXtend
Central Tube

7 Select leg length and diameter for 1st connector

0 = not applicable (e.g. pigtail/no furcation)
A = 250 mm (-0+100 mm) teflon 900 µm
B = 300 mm (-0+100 mm) teflon 900 µm
C = 350 mm (-0+100 mm) teflon 900 µm
D = 400 mm (-0+100 mm) teflon 900 µm
E = 450 mm (-0+100 mm) teflon 900 µm
F = 500 mm (-0+100 mm) teflon 900 µm
G = 600 mm (-0+100 mm) teflon 900 µm
H = 700 mm (-0+100 mm) teflon 900 µm
I = 800 mm (-0+100 mm) teflon 900 µm
J = 900 mm (-0+100 mm) teflon 900 µm
K = 1000 mm (-0+100 mm) teflon 900 µm
L = 250 mm (-0+100 mm) fan-out 2.0 mm
M = 300 mm (-0+100 mm) fan-out 2.0 mm
N = 350 mm (-0+100 mm) fan-out 2.0 mm
P = 400 mm (-0+100 mm) fan-out 2.0 mm
Q = 450 mm (-0+100 mm) fan-out 2.0 mm
R = 500 mm (-0+100 mm) fan-out 2.0 mm
S = 600 mm (-0+100 mm) fan-out 2.0 mm
T = 700 mm (-0+100 mm) fan-out 2.0 mm
U = 800 mm (-0+100 mm) fan-out 2.0 mm
V = 900 mm (-0+100 mm) fan-out 2.0 mm
W = 1000 mm (-0+100 mm) fan-out 2.0 mm

8 Select leg length and diameter for 2nd connector

Please see above leg lengths and diameters

9 Internally used digit, no selection for customer

10 Select length in metres

003-200 = M
Minimum length is 3 m (furcation to furcation). Please contact Customer Care for lengths over 200 m

Example: Semi-Precon 4 F MiniXtend CT E9 Ultra with SC APC on one end, 0.5 m 900 µm legs, 50 m **C004404G2MXF0FC050M**

1	2	3	4	5	6	7	8	9	10
C	0 0	4 4	0 4	G	2 M X F	0	F	C	0 5 0 M

CORNING

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