DualDrop™ Indoor/Outdoor Drop Cable Assembly

1 F, Corning® ClearCurve® LBL Fibre (G.657.A2/B2) or ClearCurve ZBL Single-Mode Fibre (G.657.B3), Tight-Buffered, FastAccess™ Technology

As an industry leader in optical connectivity products, Corning designs and manufactures the DualDrop™ cable assembly with factory-terminated connectors to reduce drop cable installation time significantly by transitioning directly from outdoors to inside the customer premises.

The unique design of Corning's DualDrop dielectric cable features a flame-rated indoor cable subunit centered inside a rugged outside plant drop cable. By peeling the outer jacket and exposing the inner subunit, the cable eliminates the need for termination hardware to transition from the outdoor environment to an indoor terminal. The cable also features Fast Access™ technology which enables quick-and-easy access to long lengths of the inner subunit by simply peeling away the outer jacket by hand.

Corning® ClearCurve® single-mode fibres allow installers to route the subunit around tight corners inside the customer premises to reduce the cost and the time of drop cable deployment, while they remain compatible and fully compliant with Recommendation ITU.T G.652.D.

This assembly partners exceedingly well with our PBO and BPEO closures, and it is suitable for any outdoor and indoor installation. 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 closures. On the customer side, use our NPC+ (No Polish Connector) field-installable connector to directly plug into the wall terminal or directly into the ONT.

Features	Benefits
Faster Connectivity	Eliminates the need for termination hardware connecting directly from outdoors to indoors into the subscriber equipment.
Versatility	Suitable for all installation environments (aerial, facade, duct or direct-buried)
Flexible & Robust	Easy installation in space-constrained areas Virtually zero bend loss when subjected to small radius bends
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
Flexible Length Offerings	Available in different lengths
Smart Packaging	Delivered in coils for easy logistics

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	DualDrop™ cable			
Cable Type	2-in-1 loose tube round drop cable			
Application	Indoor/Outdoor			
Fibre Count	1			
Design	1 fibre per tube, 1 central tube, gel-free, fully waterblocked, UV resistant, 2.9 mm FRNC/LSZH™ drop cable centered inside a rugged outside plant drop cable.			
Buffer Tube Diameter	0.9 mm (tight-buffered)			
Subunit Jacket Material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material - Ivory			
Outer Jacket Material	Polyethylene (PE) - Black			
Weight	14.6 kg/km			
Nominal Outer Diameter	5 mm			
Nominal Indoor Subunit Diameter	2.9 mm			
Min. Bend Radius Installation	6.3 cm			
Min. Bend Radius Installation, Outdoor Cable	30 mm			
Min. Bend Radius Installation, Indoor Subunit	15 mm			
Max. Tensile Strength, Short-Term, Outdoor Cable	1000N			
Max. Tensile Strength, Short-Term, Indoor Subunit	100N			
Max. Tensile Strength, Long-Term, Outdoor Cable	300N			
Max. Tensile Strength, Long-Term, Indoor Subunit	30N			
Crush Resistance (Reversible), Outdoor Cable	2000N/10 cm			
Crush Resistance (Reversible), Indoor Subunit	500N/10 cm			

Specifications

Fibre	Corning® ClearCurve® LBL Fibre	ClearCurve ZBL Fibre
Type	Single-mode	Single-mode
Fibre Category	ITU-T G.657.A2/B2	ITU-T G.657.B3
Maximum Attenuation (1310 nm/1383 ± 3 nm/1550 nm/1625 nm)	≤ 0.35 dB/km / ≤ 0.35 dB/km / ≤ 0.20 dB/km / ≤ 0.23 dB/km	≤ 0.35 dB/km / ≤ 0.35 dB/km / ≤ 0.20 dB/km / ≤ 0.23 dB/km
Macrobend Loss 1 turn x 7.5 mm radius @ 1550 nm	≤ 0.4 dB	N/A
Macrobend Loss 1 turn x 7.5 mm radius @ 1625 nm	≤ 0.8 dB	N/A
Macrobend Loss 1 turn x 5 mm radius @ 1550 nm	N/A	≤ 0.10 dB
Macrobend Loss 1 turn x 5 mm radius @ 1625 nm	N/A	≤ 0.30 dB
Cable Cutoff Wavelength	≤ 1260 nm	≤ 1260 nm
Mode Field Diameter (1310 nm / 1550 nm)	8.6 ± 0.4 µm/9.6 ± 0.5 µm	8.6 ± 0.4 µm/9.65 ± 0.5 µm
Dispersion (1310 nm / 1550 nm)	≤ 18.0 ps/(nm·km) / ≤ 23.0 ps/(nm·km)	≤ 18.0 ps/(nm·km) / ≤ 22.0 ps/(nm·km)
Temperature Range		
Storage Temperature Outdoor Cable	-40°C to 70°C	
Storage Temperature Indoor Subunit	-40°C to 70°C	
Installation Temperature Outdoor Cable	-5°C to 50°C	
Installation Temperature Indoor Subunit	-5°C to 50°C	
Operating Temperature Outdoor Cable	-40°C to 70°C	
Operating Temperature Indoor Subunit	-20°C to 60°C	
Standards		
RoHS	Free of hazardous substances according to RoHS 2011/65/EU	
CPR Rating	Dca s2 d1 a1 (Inner subunit)	
Design and Test Criteria	IEC 60794 IEC 60794-1-F5 Flame retardant according to IEC 60332-1-2 (single cable) Reaction to fire according to EN 50575 and EN 13501-6 Zero Halogen to IEC 60754-1 Non-corrosive according to IEC 60754-2	

Ordering Information

□	□	□	□	□	0	1	□	F	D	T	3	□	□	C	□	□	□	M
1	2		3		4		5		6			7	8	9		10		

1 Pulling grip and sealing options
C = No pulling grip
A = 1 pulling grip (on external side of the reel)
B = 2 pulling grips

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
01 = 1 fibre

5 Select fibre type
G = E9 Ultra
J = LBL
U = ZBL

6 Select drop cable type
FDT3 = 1 F DualDrop™

7 Select leg length and diameter for 1st connector
0 = Not Applicable (e.g. pigtail/no furcation)
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 1 F DualDrop E9 Ultra with SC APC on one end, 1 m 2.0 mm leg, 50 m coil **C004401GFDT30WC050M**

C	0	0	4	4	0	1	G	F	D	T	3	0	W	C	0	5	0	M
1	2		3		4		5		6			7	8	9		10		

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