

ROC™ Outdoor Drop Cable Assembly



Semi-Precon 1 F ROC Drop with SC APC on one end, 2.0 mm leg

1 F, Corning® SMF-28® Ultra Single-Mode Fibre (G.652.D/G.657.A1) or 1 F, Corning® ClearCurve® LBL Fibre (G.657.A2/B2), FastAccess™ Technology

As an industry leader in optical connectivity products, Corning designs and manufactures the SST-Drop™ cable assembly with factory-terminated connectors to deliver an immediate, ready-to-install cable drop for subscriber connectivity in an optical network.

Corning's ROC™ dielectric cable provides a more efficient, craft-friendly cable preparation unparalleled by traditional flat drop cables. The innovative FastAccess™ technology design simplifies removing the cable jacket, reducing installation time and the risk of cable or fibre damage. Two parallel strength members give this cable its exceptional crush resistance and flat shape, making it a very flexible yet robust ideal for any outdoor installation.

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.

ROC cable assembly is best suited to connect directly into our PBO closure outside the customer premises. On the customer side, use our NPC+ (No Polish Connector) field-installable connector to plug into the wall terminal or directly into the ONT.

Features	Benefits
Faster Connectivity	The assembly enables direct connectivity inside the terminal closure, reducing installation times by up to 2.5x
Versatility	Suitable for all installation environments (aerial, facade, duct, or direct-buried)
Compact & Flexible Design	For easier handling in the field Reduced slack storage and storage costs
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	10 to 300 m (other lengths available)
Smart Packaging	Delivered in coils, up to 100 m (in drums for longer lengths)

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	ROC™ drop cable			
Cable Type	Standard drop cable in single-tube design			
Application	Outdoor			
Fibre Count	1			
Design	1 fibre per tube, 1 tube position, 2 dielectric strength members			
Buffer Tube Diameter	0.9 mm			
Outer Jacket Material	Polyethylene (PE) - Black			
Weight	14.6 kg/km			
Nominal Outer Diameter	5.4 mm x 3.0 mm			
Min. Bend Radius Installation	6.3 cm			
Max. Tensile Strength, Short Term	1350N			
Max. Tensile Strength, Long Term	400N			
Crush Resistance	1500N/10 cm			
Max. Span Length (NESC® Heavy/Medium/Light)	45 m/77 m/100 m			
Max. Tension (NESC Heavy/Medium/Light)	988N/899N/734N			

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/9.6 ± 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	-30°C to 60°C	
Operation	-40°C to 70°C	
Standards		
RoHS	Free of hazardous substances according to RoHS 2011/65/EU	

Ordering Information

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	1	<input type="checkbox"/>	B	4	9	R	<input type="checkbox"/>	<input type="checkbox"/>	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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

B49R = 1 F ROC™ 900 µm

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 ROC E9 Ultra with SC APC on one end, 1 m 2.0 mm leg, 50 m coil

C004401GB49R0WC050M

C	0	0	4	4	0	1	G	B	4	9	R	0	W	C	0	5	0	M
1	2	3	4	5	6	7	8	9	10									

CORNING

Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, GERMANY
 +00 800 2676 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

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