Evolv™ ROC™ Drop Assembly

As an industry leader in optical connectivity products, Corning designs and manufactures the ROC™ drop cable assembly with factory-terminated, environmentally sealed and hardened connectors to reduce the cost and time of drop cable deployment. The Corning hardened connector provides superior durability and reliability in the drop segment of the network. This assembly also offers significant improvements in cable management.

By featuring the ROC drop cable design, issues of slack storage capacity are virtually eliminated. The ROC drop cable minimum bend radius is half the size of legacy drop cable. The outer dimensions of the cable have been reduced by more than 50 percent. ROC drop cables are more flexible, allowing for easier routing at the ONT. Installers will see a reduction in truck storage space requirements with this new design.

Features and Benefits

Hardened connector technology

Reduced-diameter Pushlok™ connector

Reduced optimized cable cross-section

Smaller profile and bend radius, flexibility allows for increased slack storage capacity in existing optical network terminals (ONTs), pedestals and handholes

Robust design

Designed for rapid connection to external flush-mounted bulkhead adapters on terminals or closures

Flexible connector offerings

Dual-ended or pigtailed versions to accommodate any ONT interface; hybrid assemblies with hardened connector (terminal) to SC APC (ONT)

Versatile installation environments

Aerial: dielectric, self-supporting at 40 lbs installation tension at 150 ft (NESC Heavy), 255 ft (NESC Medium) or 330 ft (NESC Light) Direct-buried: toneable for easy locating Duct: integral pulling eye/connector cap designed for 100 lb maximum pulling tension; Pushlok connector is suitable for 13 mm inner diameter duct

Evolv™ ROC™ Drop Assembly

CORNING

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Temperature Range	
Temperature Range, Operation	-40 °C - 70 °C (-40 F - 158 F)

Specifications - Connector A	
Connector Type	Insertion Loss, Typical
Pigtail - Pushlok	≤ 0.15 dB

Specifications - Connector B			
Connector Type	Reflectance, Typical	Insertion Loss, Typical	Connector Type
Pushlok		≤ 0.15 dB	Pigtail
SC Simplex	> 65 dB (optical return loss)	≤ 0.15 dB	Pushlok
Pushlok	> 65 dB (optical return loss)	≤ 0.15 dB	Pushlok

Mechanical Characteristics			
Part Number	Axial Pull, Plug to Cable, Through the Dust Cap	Cold Mate/Demate	Cable Length
00D101EB49R030M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	30 m
00D101EB49R100M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	100 m
00D101EB49R100M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	100 m
00D101EB49R200M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	200 m

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Mechanical Characteristics			
Part Number	Axial Pull, Plug to Cable, Through the Dust Cap	Cold Mate/Demate	Cable Length
00D101EB49R200M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	200 m
00D101EB49R300M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	300 m
00D101EB49R300M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	300 m
00D101JB49R030M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	30 m
D14401EB49R300M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	300 m
D14401EB49R300M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	300 m
D14401EB4R3030M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	30 m
D14401EB4R3030M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	30 m
D14401EB4R3100M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	100 m
D14401EB4R3100M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	100 m
D14401EB4R3200M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	200 m
D14401EB4R3200M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	200 m
D1D101EB49R030M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	30 m

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CORNING

Mechanical Characteristics			
Part Number	Axial Pull, Plug to Cable, Through the Dust Cap	Cold Mate/Demate	Cable Length
D1D101EB49R030M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	30 m
D1D101EB49R100M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	100 m
D1D101EB49R100M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	100 m
D1D101EB49R200M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	200 m
D1D101EB49R200M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	200 m
D1D101EB49R300M	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	300 m
D1D101EB49R300M-P	444.82 N (100 lb) in axial pull with load applied to the dust cap	-40 °C (-40 F)	300 m

Ordering Information

Part Number	Units per Delivery
00D101EB49R030M-P	1/1
00D101EB49R100M-P	1/1
00D101EB49R200M-P	1/1
00D101EB49R300M-P	1/1
D14401EB49R300M-P	1/1
D14401EB4R3030M-P	1/1
D14401EB4R3100M-P	1/1
D14401EB4R3200M-P	1/1
D1D101EB49R030M-P	1/1

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Part Number	Units per Delivery
D1D101EB49R100M-P	1/1
D1D101EB49R200M-P	1/1
D1D101EB49R300M-P	1/1
00D101EB49R200M	10/1
D1D101EB49R200M	10/1
00D101EB49R100M	20/1
D14401EB49R300M	20/1
D14401EB4R3200M	20/1
D1D101EB49R100M	20/1
00D101JB49R030M	50/1
D14401EB4R3030M	50/1
D14401EB4R3100M	50/1
D1D101EB49R030M	50/1
00D101EB49R300M	6/1
D1D101EB49R300M	6/1

RoHS COMPLIANT

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