

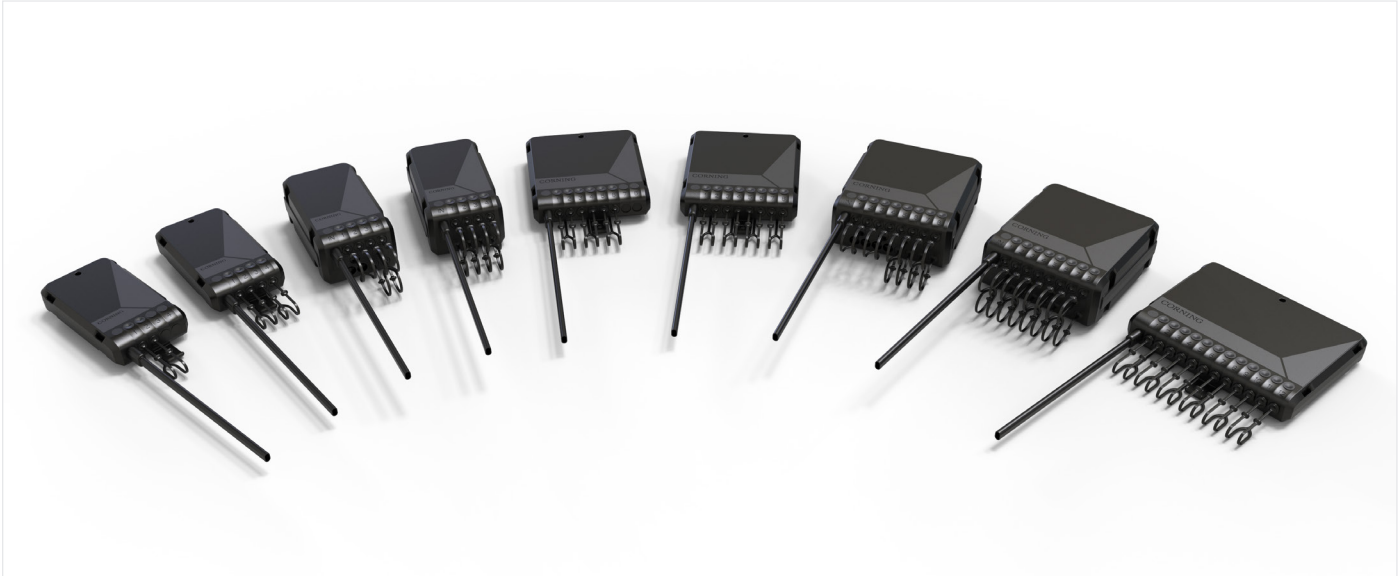


Pushlok[™] hardened connector technology is the key component enabling smaller terminals and drops for FTTx networks than ever before. Designed for use in nearly every access network environment, the terminal is small enough to be placed in existing handholes or pedestals where space is paramount, on building façades, or in aerial networks (pole- or strand-mount). Improved aesthetics improve end-user adoption for façade applications.

Features	Benefits
Reduced diameter	The small-form-factor of the connector (half the size of the OptiTap [™]) enables terminals up to 4x smaller significantly reducing new infrastructure pathway costs or enabling reuse of existing infrastructure assets
Dual-compatibility	Eliminates SKU complexity with OptiTap and SC convertible accessories
“Stick and click” mating	Field-friendly connector mating allows technicians to push, click, and connect without fear of over- or under-tightening traditional threaded ports in a fraction of the time
Future-ready	Beyond traditional buried or aerial deployments, the terminals are able to be placed on street furniture, inside lamppost monopoles, on building façades and more where traditional terminals wouldn’t fit or be aesthetically appealing
Durability	<p>Tested to Telcordia GR-3120 which includes freeze/thaw, immersion, crush, humidity, and sealing tests among others to subject the connector to virtually any and all challenges it may face in a real-world deployment.</p> <p>It is also rated to IP68, defined by the IEC and used by the National Electrical Manufacturers Association (NEMA) to indicate its uninterrupted performance in high-pressure immersion environments.</p>

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There are two styles of terminals designed to meet various space and density requirements: terminals with one row of adapter ports and terminals with two rows of adapter ports. For terminals with one row of adapter ports, the ports are aligned in a single row with the input stub on the left and 2-, 4-, 6-, 8-, or 12-distribution ports on the right. For terminals with two rows of ports, the input stub is on the front left of the terminal and there are 6-, 8-, 12-, or 16-distribution ports. Each port's corresponding release button is actuated to remove the dust cap or drop. When installing drops, the keyed ports provide an audible and physical positive feedback minimizing technician variation and potential damage due to mishandling.

Features	Benefits
Pushlok cable assembly connector ports for customer drop terminations	Lower installation cost and increase speed of connection.
Standard and integrated splitter terminal options	Solution supports various architecture types.
Durability	45 kg cable tensile strength.
Available stubbed or preterminated with OptiTip [®] multifiber technology	Compatible with existing FlexNAP [™] installations.
Small-form-factor optimizes space in pedestals/handholes	Lower profile overall with drop entry ports on bottom.
Ultrasonically welded housing	Eliminates water ingress potential and prevents unwanted entry in the field.
Factory-terminated polished connectors	Eliminates loss associated with excess fusion splices.

Standards

Telcordia	Designed to Telcordia GR-771-CORE, Issue 1
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Mechanical Specifications

Terminal Type	Dimensions (L x W x H)	Weight
2-Distribution Port Terminal (One Row of 4 Ports, 2 Filled)	15.4 x 8.4 x 3.0 cm (6.06 x 3.29 x 1.18 in)	0.195 kg (0.43 lb)
4-Distribution Port Terminal (One Row of 4 Ports)	15.4 x 8.4 x 3.0 cm (6.06 x 3.29 x 1.18 in)	0.195 kg (0.43 lb)
6-Distribution Port Terminal (One Row of 8 Ports, 2 Filled)	15.4 x 13.4 x 3.0 cm (6.06 x 5.29 x 1.18 in)	0.390 kg (0.86 lb)
6-Distribution Port Terminal (Two Rows of 4 Ports, 2 Filled)	15.4 x 8.4 x 5.8 cm (6.06 x 3.29 x 2.30 in)	0.400 kg (0.88 lb)
8-Distribution Port Terminal (One Row of 8 Ports)	15.4 x 13.4 x 3.0 cm (6.06 x 5.29 x 1.18 in)	0.390 kg (0.86 lb)
8-Distribution Port Terminal (Two Rows of 4 Ports)	15.4 x 8.4 x 5.8 cm (6.06 x 3.29 x 2.30 in)	0.400 kg (0.88 lb)
12-Distribution Port Terminal (One Row of 12 Ports)	15.4 x 18.5 x 3.0 cm (6.06 x 7.29 x 1.18 in)	0.475 kg (1.05 lb)
12-Distribution Port Terminal (Two Rows of 8 Ports, 4 Filled)	15.4 x 13.4 x 5.8 cm (6.06 x 5.29 x 2.30 in)	0.600 kg (1.32 lb)
16-Distribution Port Terminal (Two Rows of 8 Ports)	15.4 x 13.4 x 5.8 cm (6.06 x 5.29 x 2.30 in)	0.600 kg (1.32 lb)

Optical Specifications

Connector Type	Fiber Type	Insertion Loss, Maximum	Insertion Loss, Typical	Reflectance, Maximum
Pushlok™ Connector	Single-mode (OS2)	0.50 dB	0.15 dB	-60 dB
OptiTip® Multifiber Connector	Single-mode (OS2)	0.50 dB	0.35 dB	-60 dB

Packaging

Cable Stub Length	Dimensions (L x W x H)	Packaging Method
Cables ≤ 100 m	15.2 x 76.2 x 76.2 cm (6.0 x 30.0 x 30.0 in)	Box
Cables ≥ 100 m	84.6 x 17.8 x 84.6 cm (33.0 x 7.0 x 33.0 in)	Reel

Terminal Cable Stub Information

SST Cable Stub	
Application	SST-Drop™ cable offer the ease of installation of standard ALTOS™ cable in an easy-access, single-tube design. The dielectric version eliminates any bonding and grounding requirements
Cable Specification Reference Materials	12 F SST Dielectric Cable: Product Specification 012EB4-13122A20
MiniXtend Cable Stub	
Application	MiniXtend® cable with Binderless* FastAccess™ Technology is an all-dielectric loose tube cable designed for microduct applications. The outer diameter of the 12-72 F cable is 5.4 mm (0.21 in).
Cable Specification Reference Materials	Family Spec Sheet 0136_NAFTA_AEN
Long-Span SST Cable Stub	
Application	Long-Span SST cable is ideal for rural, aerial environments where longer cable distances are required. The cable supports pole-to-pole span lengths ranging from 122 m (NESC Heavy) to 152 m (NESC Medium).

*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.



Evolv® Splitter Terminals with Pushlok™ Technology



Ordering Information

Splitter Terminals	
Part Number	Product Description
DSH2F100D1NC000S0P	Evolv® Splitter Terminal with Pushlok™ Technology, 2 port, unstubbed, 1x2 splitter
DSH4F100D1NC000S0P	Evolv Splitter Terminal with Pushlok Technology, 4 port, unstubbed, 1x4 splitter
DSF8F100D1NC000S0P	Evolv Splitter Terminal with Pushlok Technology, 8 port, unstubbed, 1x8 splitter
DSF9F100D1NC000S0P	Evolv Splitter Terminal with Pushlok Technology, 8 port, unstubbed, 1x8 splitter, 2 rows of 4 ports
DSP6F100D1NC000S0P	Evolv Splitter Terminal with Pushlok Technology, 16 port, unstubbed, 1x16 splitter, 2 rows of 8 ports

Evolv® Terminals, Splitter

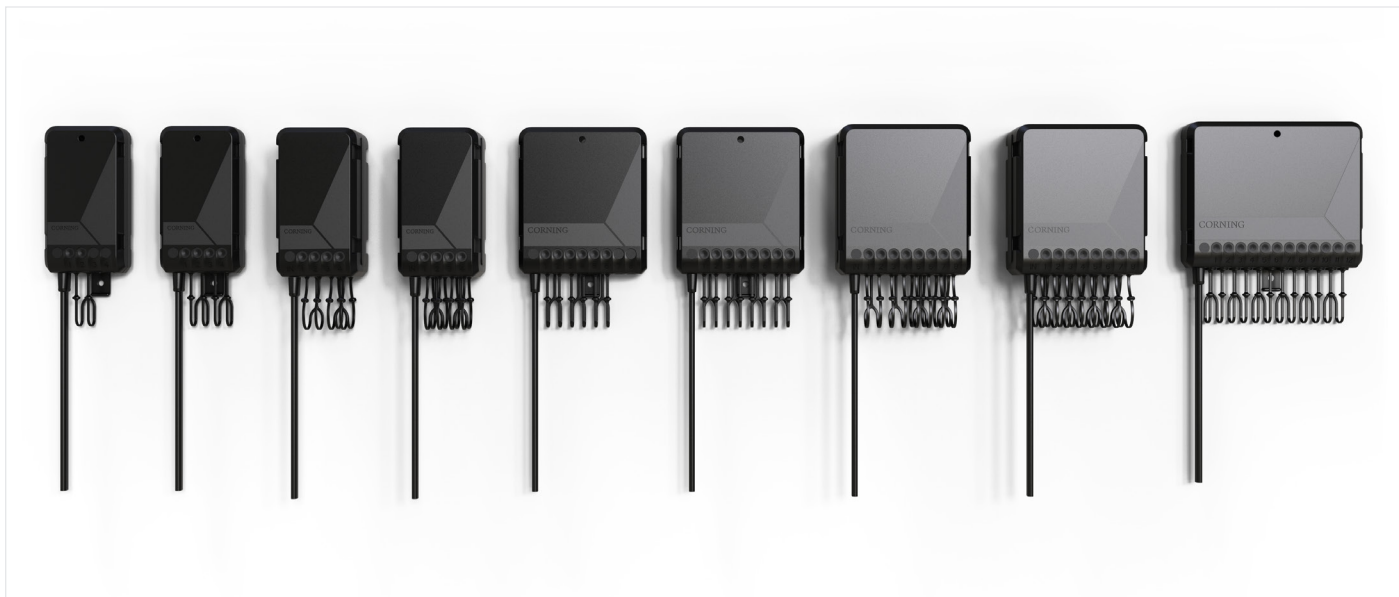
D S F 1 0 0 D 1 N C 0 0 0 S 0 P

1
2
3
4

- 1** Select number of Pushlok™ single-fiber connector ports.
 - H2 = 2
 - H4 = 4
 - F8 = 8
 - F9 = 8 (2 rows of 4 ports)
 - P6 = 16 (2 rows of 8 ports)
- 2** Defines connector type.
 - F1 = Single-fiber per port
- 3** Defines port connector type.
 - D1 = Single-fiber Pushlok SC APC
- 4** Defines tail connector type.
 - NC = Not connectorized



Evolv® Stubbed Terminals with Pushlok™ Technology



Standard Stubbed Terminals - See Additional Configurations on Page 7

Part Number	Product Description
DMA2F1FDD1NC010M0P	Evolv® Terminal with Pushlok™ Technology, 2 port, stubbed, SST dielectric, 10 m
DMA4F1FDD1NC050M0P	Evolv Terminal with Pushlok Technology, 4 port, stubbed, SST dielectric, 50 m
DMA6F1FDD1NC100M0P	Evolv Terminal with Pushlok Technology, 6 port, stubbed, SST dielectric, 100 m
DMA8F1FDD1NC150M0P	Evolv Terminal with Pushlok Technology, 8 port, stubbed, SST dielectric, 150 m
DMB4F1FDD1NC010M0P	Evolv Terminal with Pushlok Technology, 8 port, 2 rows of 4 ports, stubbed, SST dielectric, 10 m
DMATF1FDD1NC050M0P	Evolv Terminal with Pushlok Technology, 12 port, stubbed, SST dielectric, 50 m
DMB6F1FDD1NC050M0P	Evolv Terminal with Pushlok Technology, 12 port, 2 rows of 8 ports (4 filled), stubbed, SST dielectric, 50 m
DMB8F1FDD1NC030M0P	Evolv Terminal with Pushlok Technology, 16 port, 2 rows of 8 ports, stubbed, SST dielectric, 30 m
DMA2F1MLD1NC010M0P	Evolv Terminal with Pushlok Technology, 2 port, stubbed, MiniXtend®, 10 m
DMA4F1MLD1NC050M0P	Evolv Terminal with Pushlok Technology, 4 port, stubbed, MiniXtend, 50 m
DMA6F1MLD1NC100M0P	Evolv Terminal with Pushlok Technology, 6 port, stubbed, MiniXtend, 100 m
DMB3F1MLD1NC030M0P	Evolv Terminal with Pushlok Technology, 6 port, 2 rows of 4 ports (2 filled), stubbed, MiniXtend, 30 m
DMA8F1MLD1NC150M0P	Evolv Terminal with Pushlok Technology, 8 port, stubbed, MiniXtend, 150 m
DMB4F1MLD1NC010M0P	Evolv Terminal with Pushlok Technology, 8 port, 2 rows of 4 ports, stubbed, MiniXtend, 10 m
DMATF1MLD1NC050M0P	Evolv Terminal with Pushlok Technology, 12 port, stubbed, MiniXtend, 50 m
DMB6F1MLD1NC050M0P	Evolv Terminal with Pushlok Technology, 12 port, 2 rows of 8 ports (4 filled), stubbed, MiniXtend, 50 m
DMB8F1MLD1NC100M0P	Evolv Terminal with Pushlok Technology, 16 port, 2 rows of 8 ports, stubbed, MiniXtend, 100 m
DMA4F1LSD1NC010M0P	Evolv Terminal with Pushlok Technology, 4 port, stubbed, Long-Span SST, dielectric, 10 m
DMA8F1LSD1NC050M0P	Evolv Terminal with Pushlok Technology, 8 port, stubbed, Long-Span SST, dielectric, 50 m
DMATF1LSD1NC100M0P	Evolv Terminal with Pushlok Technology, 12 port, stubbed, Long-Span SST, dielectric, 100 m

Ordering Information

Evolv® Terminals, Stubbed



1 Select number of Pushlok™ single-fiber connector ports.

- A2 = 2
 - A4 = 4
 - A6 = 6
 - A8 = 8
 - AT = 12
 - B3 = 6 (2 rows of 4 ports, 2 filled)
 - B4 = 8 (2 rows of 4 ports)
 - B6 = 12 (2 rows of 8 ports, 4 filled)
 - B8 = 16 (2 rows of 8 ports)*
- *only available with MiniXtend stub*

2 Defines connector type.

- F1 = Single-fiber per port

3 Select cable type.

- FD = SST flat dielectric drop cable
- ML = MiniXtend® loose tube cable
- LS = Long-Span SST dielectric drop cable

4 Defines port connector type.

- D1 = Single-fiber Pushlok SC APC

5 Defines tail connector type.

- NC = Not connectorized

6 Select cable stub length.

- 5 m increments up to 1,000 m available.
- See Table A for lengths $\geq 1,000$ m

7 Defines unit length.

- M = Meters

8 Select packaging.

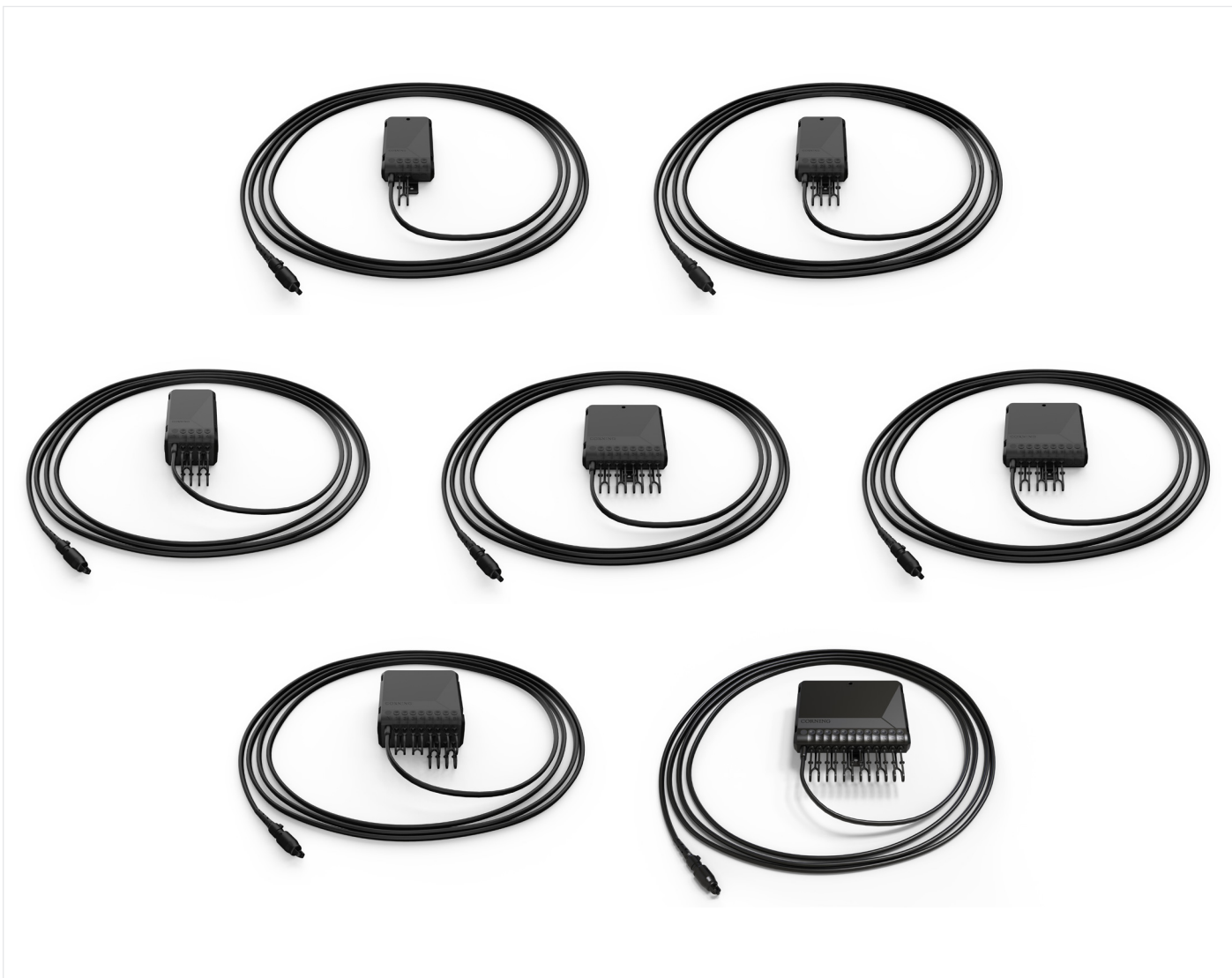
- P = Standard spool — individual packaging
- B = Bulk packaging

Table A: Alpha codes for lengths $\geq 1,000$ m

A00 = 1,000	H00 = 1,700	P00 = 2,400	W00 = 3,100
B00 = 1,100	J00 = 1,800	Q00 = 2,500	X00 = 3,200
C00 = 1,200	K00 = 1,900	R00 = 2,600	Y00 = 3,300
D00 = 1,300	L00 = 2,000	S00 = 2,700	Z00 = 3,400
E00 = 1,400	M00 = 2,100	T00 = 2,800	
F00 = 1,500	N00 = 2,200	U00 = 2,900	
G00 = 1,600	O00 = 2,300	V00 = 3,000	



Evolv® Stubbed Terminals with Pushlok™ Technology for FlexNAP™ Systems



Stubbed Terminals for FlexNAP™ Systems — See Additional Configurations on Page 9

Part Number	Product Description
DFA2F1FDD1M1050M0P	Evolv® Terminal with Pushlok™ Technology, 2 port, preconnectorized OptiTip® stub, SST dielectric, 50 m
DFA4F1FDD1M1100M0P	Evolv Terminal with Pushlok Technology, 4 port, preconnectorized OptiTip stub, SST dielectric, 100 m
DFA6F1FDD1M1100M0P	Evolv Terminal with Pushlok Technology, 6 port, preconnectorized OptiTip stub, SST dielectric, 100 m
DFB3F1FDD1NC050M0P	Evolv Terminal with Pushlok Technology, 6 port, 2 rows of 4 ports (2 filled), preconnectorized OptiTip stub, SST dielectric, 50 m
DFA8F1FDD1M1050M0P	Evolv Terminal with Pushlok Technology, 8 port, preconnectorized OptiTip stub, SST dielectric, 50 m
DFB4F1FDD1M1050M0P	Evolv Terminal with Pushlok Technology, 8 port, 2 rows of 4 ports, preconnectorized OptiTip stub, SST dielectric, 50 m
DFB6F1FDD1M1100M0P	Evolv Terminal with Pushlok Technology, 12 port, 2 rows of 8 ports (4 filled), preconnectorized OptiTip stub, SST dielectric, 100 m
DFATF1FDD1M1100M0P	Evolv Terminal with Pushlok Technology, 12 port, preconnectorized OptiTip stub, SST dielectric, 100 m

Ordering Information

Evolv® Terminals, Stubbed for Standard FlexNAP™ Systems



1 Select number of Pushlok™ single-fiber connector ports.

- A2 = 2
- A4 = 4
- A6 = 6
- A8 = 8
- AT = 12
- B3 = 6 (2 rows of 4 ports, 2 filled)
- B4 = 8 (2 rows of 4 ports)
- B6 = 12 (2 rows of 8 ports, 4 filled)

2 Defines connector type.

- F1 = Single-fiber per port

3 Defines cable type.

- FD = SST flat dielectric drop cable

4 Defines port connector type.

- D1 = Single-fiber Pushlok SC APC

5 Defines tail connector type.

- M1 = OptiTip® connector

6 Select cable stub length.

- 5 m increments up to 1,000 m available.
- See Table A for lengths $\geq 1,000$ m

7 Defines unit length.

- M = Meters

8 Select packaging.

- P = Standard spool — individual packaging
- B = Bulk packaging

Table A: Alpha codes for lengths $\geq 1,000$ m

A00 = 1,000	H00 = 1,700	P00 = 2,400	W00 = 3,100
B00 = 1,100	J00 = 1,800	Q00 = 2,500	X00 = 3,200
C00 = 1,200	K00 = 1,900	R00 = 2,600	Y00 = 3,300
D00 = 1,300	L00 = 2,000	S00 = 2,700	Z00 = 3,400
E00 = 1,400	M00 = 2,100	T00 = 2,800	
F00 = 1,500	N00 = 2,200	U00 = 2,900	
G00 = 1,600	O00 = 2,300	V00 = 3,000	



Evolv[®] Optical Tap Terminals with Pushlok[™] Technology



1x2 Optical Tap Terminal, 90/10 Power Split



1x4 Optical Tap Terminal, 90/10 Power Split



1x8 Optical Tap Terminal, 90/10 Power Split

Optical distributed taps, known also as uneven-split or asymmetric terminals, are most appropriate for short length, dense environments or rural FTTx applications where lean distribution runs are desired. Each run supports 32 or 64 subscriber ONTs with cascaded multiport terminals utilizing preconnectorized single-fiber assemblies in the distribution. The fully preconnectorized system reduces installation costs while increasing the speed of deployment.

This solution is comprised of an array of power-split ratios to customize each run for optimal signal reach. Tap splits of 90/10, 85/15, 80/20, 70/30, and 60/40 split ratios can be cascaded, or daisy-chained, to accommodate a wide variety of deployment scenarios.

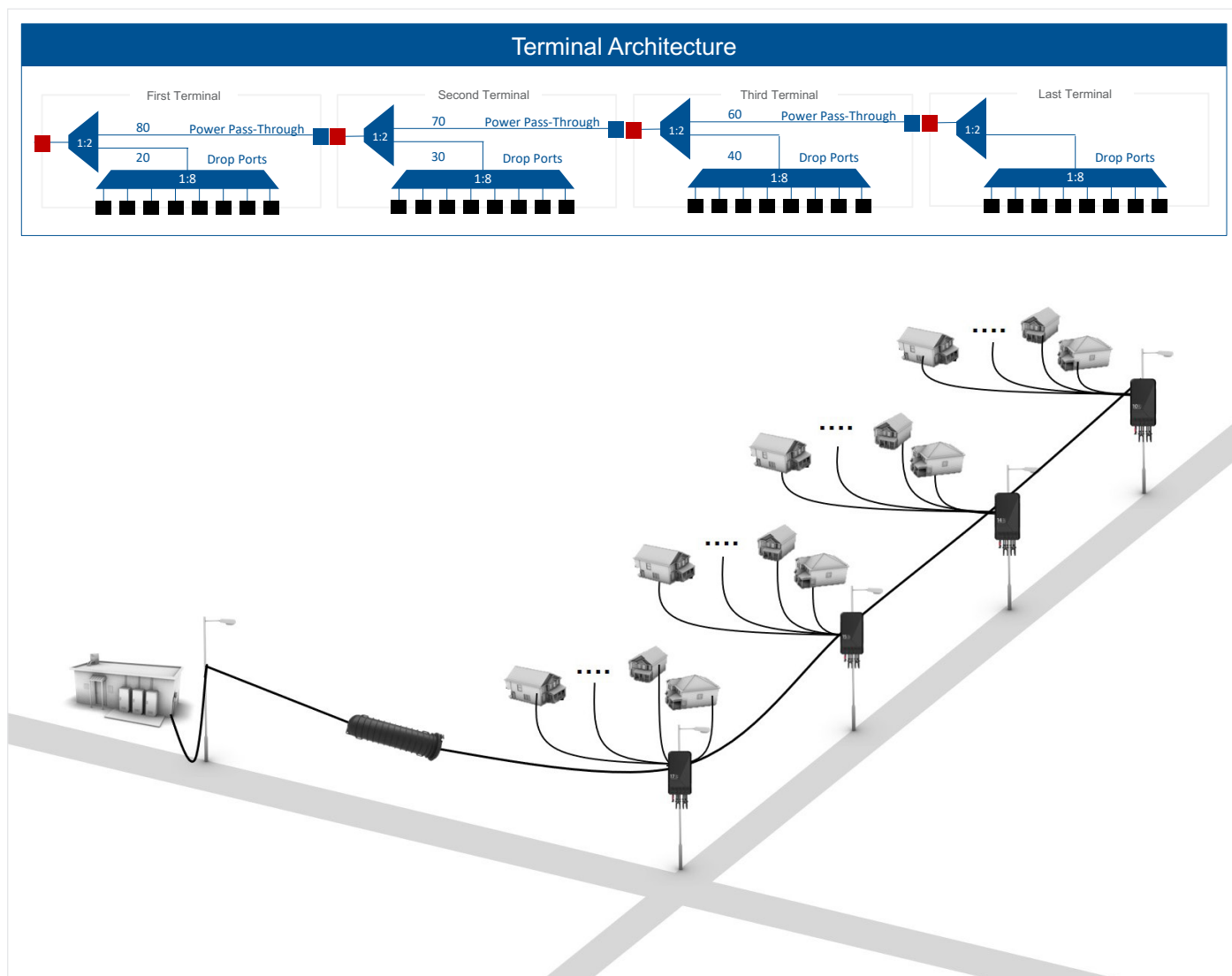
Each multiport terminal includes the uneven, asymmetric splitter, a standard 1x2, 1x4, or 1x8 splitter to support customer connections, as well as a pass-through port feeding subsequent terminals in the run in a single form factor. The number of terminals in an individual run and the variation of multiport terminals used is dependent upon the distances between terminals and subscribers to maintain an acceptable link-loss budget. By limiting the number of terminal options and utilizing preconnectorized Pushlok[™] drop cables, FTTx designs and material inventories can be simplified.

Features	Benefits
Pushlok Connector Ports for Drop Termination	Lower installation cost and increased speed of interconnection
Stubless Multiport Terminal System	Reduces distribution cable fiber count; allows full plug-and-play distribution deployment, without requiring splicing
Full Preconnectorized Single-Fiber Architecture	A cost-effective solution that diverts a portion of power to support a typical run of 32 to 64 ONTs
Factory-Installed and Tested Connectors	Connector design provides stability, reliability, and durability
Supports Various Power Split Ratios	Solutions available to accommodate numerous combinations of power split ratio designs
Rapid Repair/Restoration	Damaged single-fiber preconnectorized drops can be repaired quickly with low-skill technicians to restore subscriber services
Dual-Ended ROC [™] Drop Cable Assembly	ROC drop assemblies terminated with Pushlok connectors on both ends provide quick and efficient connectivity between terminals

Evolv® Optical Tap Terminals with Pushlok™ Technology

The optical distributed tap architecture leverages a cascaded network of uneven-split, or asymmetric split, multiport terminals to ensure sufficient signal reaches subscribers along the route. As the first terminal is closest to the signal source (OLT), a lower amount of signal is needed to feed the subscribers served from the 1x2, 1x4, or 1x8 splitter.

In many cases, the first multiport terminal will utilize a 90/10 power split where the 10% feeds the subscriber ports and the 90% passes on to feed subsequent terminals downstream. Subsequent terminals in the chain either maintain a similar uneven-split ratio or a higher ratio of local power depending upon the distances between terminals and the total link budget. In higher density environments with short distances between terminals, operators may serve more than the standard 32 or 64 subscribers. However, in low-density rural runs spanning long distances, operators may serve fewer subscribers per route as this is heavily dependent upon the link budget.



Optical Tap Network Architecture Example Illustration (8-Port Evolv Terminals shown)



Evolv® Optical Tap Terminals with Pushlok™ Technology

Mechanical Specifications

Application	Aerial, duct, direct-buried
Dimensions (L x W x H)	2-Port Evolv® Terminal: 15.4 x 8.4 x 3.0 cm (6.06 x 3.29 x 1.18 in) 4-Port Evolv Terminal: 15.4 x 13.4 x 3.0 cm (6.06 x 5.29 x 1.18 in) 8-Port Evolv Terminal: 15.4 x 8.4 x 5.8 cm (6.06 x 3.29 x 2.30 in)
Weight	2-Port Evolv Terminal: 0.195 kg (0.43 lb) 4-Port Evolv Terminal: 0.390 kg (0.86 lb) 8-Port Evolv Terminal: 0.400 kg (0.88 lb)
Packaging	Individual packaging
Termination	Pushlok™ connector assemblies
Axial Pull, Plug to Adapter	23 kg
Axial Pull, Plug to Cable	45 kg in axial pull with load applied to the dust cap
Cold Mate/Demate	-20°C mechanical testing

2-Port Evolv Terminal Optical Specifications

Splitter Type	Insertion Loss, Max	Insertion Loss, Typical	Reflectance, Typical
Pass-Through Port (90)	1.20 dB	1.00 dB	-55 dB
Drop Port (10)	15.40 dB	14.50 dB	-55 dB
Pass-Through Port (85)	1.50 dB	1.20 dB	-55 dB
Drop Port (15)	13.20 dB	12.60 dB	-55 dB
Pass-Through Port (80)	1.80 dB	1.40 dB	-55 dB
Drop Port (20)	11.80 dB	11.20 dB	-55 dB
Pass-Through Port (70)	2.40 dB	2.00 dB	-55 dB
Drop Port (30)	10.00 dB	9.40 dB	-55 dB
Pass-Through Port (60)	3.10 dB	2.80 dB	-55 dB
Drop Port (40)	8.70 dB	8.00 dB	-55 dB

4-Port Evolv Terminal Optical Specifications

Splitter Type	Insertion Loss, Max	Insertion Loss, Typical	Reflectance, Typical
Pass-Through Port (90)	1.20 dB	1.00 dB	-55 dB
Drop Port (10)	19.30 dB	17.20 dB	-55 dB
Pass-Through Port (85)	1.50 dB	1.20 dB	-55 dB
Drop Port (15)	17.00 dB	15.50 dB	-55 dB
Pass-Through Port (80)	1.80 dB	1.40 dB	-55 dB
Drop Port (20)	16.00 dB	14.50 dB	-55 dB
Pass-Through Port (70)	2.40 dB	2.00 dB	-55 dB
Drop Port (30)	13.60 dB	12.20 dB	-55 dB
Pass-Through Port (60)	3.10 dB	2.80 dB	-55 dB
Drop Port (40)	12.30 dB	11.00 dB	-55 dB



Evolv® Optical Tap Terminals with Pushlok™ Technology

8-Port Multiport Optical Specifications

Splitter Type	Insertion Loss, Max	Insertion Loss, Typical	Reflectance, Typical
Pass-Through Port (90)	1.20 dB	1.00 dB	-55 dB
Drop Port (10)	21.74 dB	20.42 dB	-55 dB
Pass-Through Port (85)	1.50 dB	1.20 dB	-55 dB
Drop Port (15)	20.98 dB	18.60 dB	-55 dB
Pass-Through Port (80)	1.80 dB	1.40 dB	-55 dB
Drop Port (20)	18.45 dB	17.50 dB	-55 dB
Pass-Through Port (70)	2.40 dB	2.00 dB	-55 dB
Drop Port (30)	16.71 dB	15.40 dB	-55 dB
Pass-Through Port (60)	3.10 dB	2.80 dB	-55 dB
Drop Port (40)	15.52 dB	14.20 dB	-55 dB

Environmental Characteristics

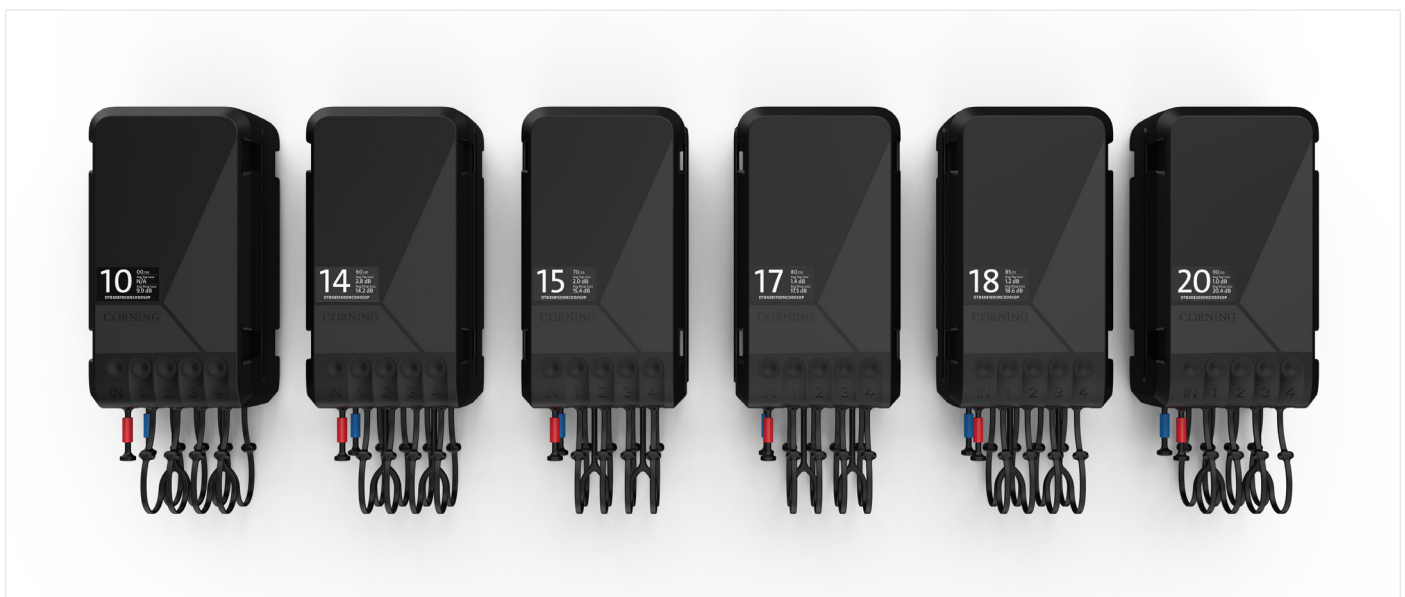
Characteristics Temperature Rating	-40°C to 85°C (-40°F to 185°F)
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Standards

Telcordia	Designed to Telcordia GR-771-CORE, Issue 1
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Product Design

Red Connector Port	Input Connector Port
Blue Connector Port	Cascade/Next Hop Connector Port



Optical Tap Evolv Terminal Family (8-Port Evolv Terminals shown)

Evolv® Optical Tap Terminal Ordering Information



1 Select number of terminal ports.

- A4X2 = 4-port terminal, 2 subscribers
- A8X4 = 8-port terminal, 4 subscribers
- B4X8 = 8-port terminal, 8 subscribers

2 Select connector type.

2 Subscriber Port Terminals

- 15 = 90/10 Power Split
- 13 = 85/15 Power Split
- 11 = 80/20 Power Split
- 09 = 70/30 Power Split
- 08 = 60/40 Power Split
- 04 = 00/00 Power Split

4 Subscriber Port Terminals

- 17 = 90/10 Power Split
- 16 = 85/15 Power Split
- 15 = 80/20 Power Split
- 12 = 70/30 Power Split
- 11 = 60/40 Power Split
- 06 = 00/00 Power Split

8 Subscriber Port Terminals

- 20 = 90/10 Power Split
- 18 = 85/15 Power Split
- 17 = 80/20 Power Split
- 15 = 70/30 Power Split
- 08 = 60/40 Power Split
- 04 = 00/00 Power Split

3 Select packaging.

- P = Standard spool — individual packaging
- B = Bulk packaging

Part Number Examples		
Part Number	Product Description	Units per Delivery
DTA4X21500NC000SOP	Optical Tap Evolv Terminal, 90/10 power distribution, 2 port, stubless	1
DTA8X41700NC000SOP	Optical Tap Evolv Terminal, 90/10 power distribution, 4 port, stubless	1
DTB4X82000NC000SOP	Optical Tap Evolv Terminal, 90/10 power distribution, 8 port, stubless	1

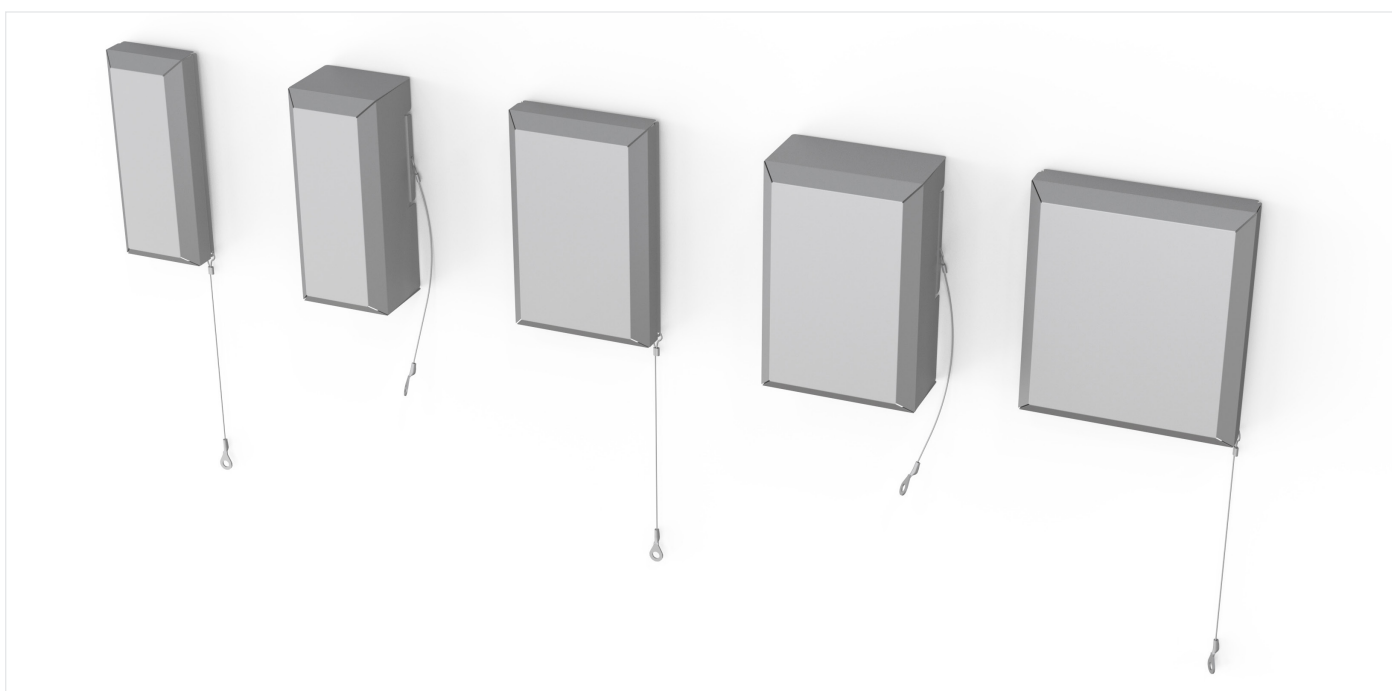


Evolv® Terminal Accessories



Evolv® Terminal Brackets

Part Number	Product Description
EHC-BKT-Wall	Evolv Wall- and Pole-Mount Terminal Bracket, compatible with 8-, 12-, and 16-port terminals (2 rows of ports)
EHC-BKT-HH	Evolv Handhole-Mount Terminal Bracket, compatible with all Evolv terminals (2, 4, 6, 8, 12 and 16 port)
EHC-BKT-Strand	Evolv Strand-Mount Terminal Bracket, compatible with all Evolv terminals (2, 4, 6, 8, 12 and 16 port)



Evolv Terminal Covers

Part Number	Product Description
EHC-CVR-A4-GRAY	Evolv 2- and 4-Port Terminal Cover
EHC-CVR-A8-GRAY	Evolv 6- and 8-Port Terminal Cover
EHC-CVR-B4-GRAY	Evolv 6- and 8-Port Terminal Cover, 2 rows of 4 ports
EHC-CVR-B8-GRAY	Evolv 12- and 16-Port Terminal Cover, 2 rows of 8 ports
EHC-CVR-AT-GRAY	Evolv 12-Port Terminal Cover, 1 row of 12 ports



Evolv® Terminal Accessories (continued)



Evolv® Reflector with Pushlok™ Technology

Part Number	Product Description
07-058064-002	The Evolv Reflector with Pushlok Technology was designed to create a demarcation point in the network through a reflective event on OTDR equipment. This event allows users to validate connectivity to that point within the network. The reflector consumes a fiber connection port within an Evolv terminal in order to measure connectivity.

Passive Optical Networks have always presented an inherent challenge for OTDR-based testing, and the industry has responded with the introduction of intelligent and automated solutions for continuous monitoring and event-based diagnostics. These advanced systems invariably rely on reflective devices installed at strategic points in the network which the test equipment uses for trace characterisation. One of the many advantages of hardened connectorised solutions is that the terminal is an ideal position to locate these reflective devices.

The Evolv® Reflector with Pushlok™ Technology is a stubbed connector containing an optical filter which provides a highly reflective signature at 1,650 nm on which the latest intelligent OTDR solutions depend. This stand-alone pluggable device fits into any Evolv terminal port to enable remote monitoring of the terminal. In many applications each terminal has a reflector in one port when it is initially installed. Like any connector, the reflector can be easily removed from the port which provides the test equipment the information it needs for terminal identification.

All Evolv connectors, including the reflector, can be used on any OptiTap® port using the Evolv Reflector with OptiTap Converter.

Features	Benefits
Pushlok™ and OptiTap® connector technology	Industry standard for new and existing FTTx installations
Reflector with OptiTap converter	One component for both connector formats
Pluggable device	Easy removal for optical characterization
1,650 nm reflective wavelength	Compatible with intelligent OTDR systems

Ordering Information

Part Number	Description	Minimum Order Quantity (MOQ)	Ordering Quantity
07-058064-002	Evolv® Reflector with Pushlok Technology	25 pieces	Multiples of 25 pcs only
07-058064-004	Evolv Reflector with Optitap conversion kit	25 pieces	Multiples of 25 pcs only



Pushlok™ connectors are the key component enabling smaller terminals for FTTx networks. The Evolv® BPEO Closure with Pushlok technology is ideally suited for applications where re-enterable splice enclosures with mid-span feeder capability are needed. This closure is equipped with pre-installed adapters that convert the existing hexagonal ports in BPEO closures size 0, 1, and 1.5 to Pushlok-compatible ports. Subscriber drop ports on the base contain a standard SC APC bulkhead just inside the closure. The connector mating and closure sealing is secured with a converter applied to the standard Pushlok connector on a ROC™ Drop cable assembly.

Evolv BPEO closures with Pushlok technology are IP68-rated for above and below-grade fiber closures design for hardened external drop plug-and-play connectivity. With Pushlok technology, the drop cables can be connected without the need to open the closure. For initial installation, the double-entry port allows for an uncut feeder cable to be prepped outside of the closure and subsequently routed cleanly inside.

Evolv BPEO closures are available in three terminal body sizes (0, 1 and 1.5). Size 0 (S0) is available configured with 4 or 8 ports pre-equipped with SC APC couplings and pigtails, while size 1 (S1) and 1.5 (S1.5) accommodate 8 and 12 ports, respectively. These ports are ready for a direct and simple push/pull connection with a Pushlok drop cable prepared with the converter kit.

Features	Benefits
Kit to convert Pushlok™ drop cable	Agility to integrate Evolv® BPEO closure with Pushlok technology into an existing network of Evolv Terminals by standardizing on one drop configuration.
Mechanical assembly of components	Convert standard ROC™ drop cables with Pushlok to mate to BPEO Pushlok ports easily without needing special tools.
O-ring sealing of closure port	Pushlok drop kit adapter ensures water tightness is maintained as subscriber drops are connected.
Storage area for uncut buffer tubes from feeder cable	Enable express cable of mid-span applications.
Adapted to micro cables and standard loose tube cables	Enable use of MiniXtend®, ALTOS®, ADSS cables.
External cable feeder sealing	Cable prep outside the closure.

Evolv® BPEO Closures with Pushlok™ Technology

Part Number	Product Description
B0-04P-D00-02A-PG04	4 Port, Size 0, 2 splice trays, 4 SC APC adapters
B0-08P-D00-02A-PG08	8 Port, Size 0, 2 splice trays, 8 SC APC adapters
B1-08P-D00-02A-PG08	8 Port, Size 1, 2 splice trays, 8 SC APC adapters
BH-12P-D00-03A-PG12	12 Port, Size 1.5, 3 splice trays, 8 SC APC adapters



Evolv® ECAM Converter for Pushlok™ Connector on ROC™ Drop Cable



Features	Benefits
One standardized drop configuration	Ability to integrate the Evolv® BPEO closure with Pushlok™ technology into an existing network of Evolv Terminals.
Mechanical assembly of components	Convert standard ROC™ drop cables with Pushlok to mate to BPEO Pushlok ports easily without needing special tools.
O-ring sealing of closure port	Pushlok drop kit adapter ensures water tightness is maintained as subscriber drops are connected.

General Specifications	
Application	Aerial/Manhole
Cable type	ROC dielectric
Brand	Evolv
Standards according to RoHS 2011/65/EU	Free of hazardous substances according to RoHS 2011/65/EU

Environmental Conditions	
Temperature Range, Operation	-40°C to 65°C

Design	
Colored trays	No
Working environment	Aerial/manhole
Housing material	Plastic Resin

Design Connector	
Color	Black

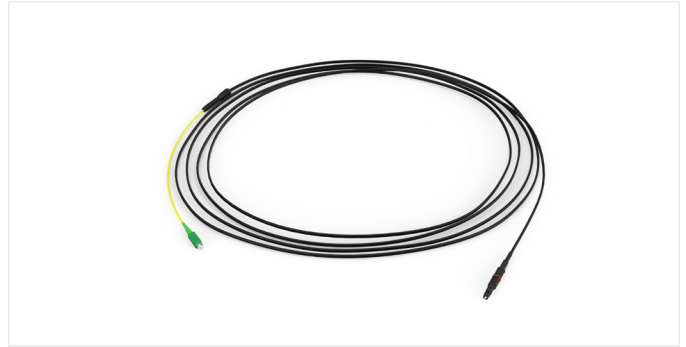
Design Adapter	
Housing Color	Black
Adapter Type	Evolv® Pushlok™
Shuttered adapter	Yes

Evolv® ECAM Converter for Pushlok™ Connector on ROC™ Drop Cable	
Part Number	Product Description
KT-PL-ECAM-CONV	Evolv ECAM Converter for Pushlok connector on ROC™ Drop Cable.





1 F ROC™ Drop, Pushlok™ to Pushlok



1 F ROC Drop, Pushlok to SC APC



1 F ROC Drop, Pushlok to Pigtail



1 F Round ROC Drop, Pushlok to Pigtail

Pushlok™ hardened connector technology is the key component enabling smaller terminals and drops for FTtx networks. Designed for use in nearly every access network environment, the terminal is small enough to be placed in existing handholes or pedestals where space is paramount, on building façades, or in aerial networks (pole- or strand-mount). Improved aesthetics improve end-user adoption for façade applications.

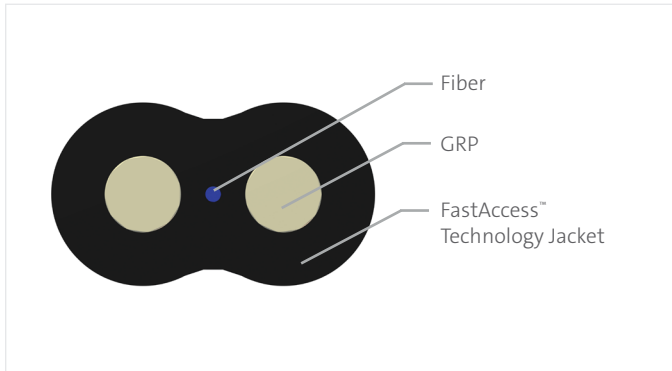
To supplement the new Evolv® Terminal portfolio, the Evolv Drop assemblies will also feature Pushlok technology. The Evolv Drop portfolio includes 1 F ROC™ Drop cables, 1 F Round ROC Drop cables, 2 F SST-Drop™ cables, and 4 F SST-Drop cables. SC APC converters, OptiTap® converters, test jumpers, and maintenance extenders are available to support the drop portfolio.

Features	Benefits
Hardened connector technology	Reduced-diameter Pushlok connector.
Flexible connector offerings	Dual-ended or pigtailed versions to accommodate any ONT interface. Hybrid assemblies with hardened connector (terminal) to SC APC (ONT). 1 F & 2 F small cell variants with Pushlok connectors to LC or Uniboot connectors.
Versatile installation environments	Cable variants for aerial (dielectric), duct, and MDU applications.
Dual compatibility	OptiTap and SC APC converters enable users to convert Pushlok connectors into OptiTap and SC APC form factors.

ROC™ Drop Cable Assembly

Outdoor, flat cable design, dielectric

Dielectric



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. Corning hardened connectors provide 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%. 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	Benefits
Hardened connector technology	OptiTap® connector, industry standard for existing FTTx networks, or 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) are available with both OptiTap and Pushlok variants. Small cell variants with Pushlok connectors to LC or Uniboot connectors.
Versatile installation environments	Aerial: dielectric, self-supporting at 18 kg installation tension at 50 m (NESC Heavy), 77 m (NESC Medium) or 100 m (NESC Light). Duct: integral pulling eye/connector cap designed for 45 kg maximum pulling tension; OptiTap connector is suitable for 3.2-cm conduit; Pushlok connector is suitable for 13 mm inner diameter duct.

Standards

Design and Test Criteria	GR-3120
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Pushlok™ Connector Specifications

Insertion Loss, typical	0.15 dB
Reflectance, typical	≤-65 dB
Outer diameter dimensions	12.0 mm (with dust cap)

Cable Specifications

Axial Pull, plug-to-adapter coupling strength	23 kg
Axial Pull, plug-to-cable through the dust cap	45 kg
Cold mate/demate	-40°C mechanical testing

Ordering Information



1 Select end one connector.

00 = No Connector
D1 = Pushlok™ Connector

2 Select input.

D1 = Pushlok Connector
44 = SC APC Connector, simplex

3 Select cable type.

49R = ROC™ 900 μm dielectric cable with FastAccess™ technology
PFR = ROC dielectric cable, heat-shrink furcation, 2.9 mm leg on simplex connector end with pulling grip
4R3 = ROC dielectric cable, heat-shrink furcation leg on simplex connector end

4 Select cable assembly length (three-digit length) for lengths under 1,000 m. *See Table A for lengths ≥ 1,000 m.*

Lengths
Minimum: 2 m

Meters lengths
2, 3, 5 then 5 m increments

Note: Contact customer care for extended length offerings.

5 Defines unit length.

M = Meters

6 Defines packaging.*

**Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*

Bulk packaging

Multiple units coiled in a box up to 455 m
Greater than 460 m ships on a reel.

Individual packaging

Individual units coiled in a box up to 150 m
Greater than 155 m ships on a reel.

Table A: Alpha codes for lengths ≥ 1,000 m

A00 = 1,000	C00 = 1,200	F00 = 1,500	J00 = 1,800
B00 = 1,100	D00 = 1,300	G00 = 1,600	K00 = 1,900
	E00 = 1,400	H00 = 1,700	L00 = 2,000



Evolv[®] 1- and 2-Fiber Small Cell Cable Assemblies

Outdoor, Indoor/Outdoor, ROC[™] or SST cable offerings, dielectric



1 F ROC[™] Drop, Pushlok[™] to LC Simplex



1 F SST-Drop[™], Pushlok to Uniboot



2 F SST-Drop, Outdoor, Pushlok to LC Duplex



2 F SST-Drop, Outdoor, Pushlok to Uniboot

Corning's 1 F small cell assemblies are available with Pushlok[™] to LC simplex on the ROC[™] Drop cable and LC Uniboot on the SST-Drop[™]. The 2 F small cell assemblies are available as Pushlok to LC Duplex or LC Uniboot.

Features	Benefits
Pushlok Technology	Reduced-diameter connector, leading technology for FTTx installations
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	1 F small cell variants with a Pushlok connector to LC or Uniboot. 2 F small cell variants with Pushlok to LC Duplex or LC Uniboot.
Versatile installation environments	Dielectric variants available

Connector Specifications

Connector Types	Pushlok, LC Simplex, LC Duplex, LC Uniboot
Insertion loss, typical	0.15 dB or 0.4 dB
Reflectance	≤-65 dB

Small Cell Drop Cable Assembly Specifications

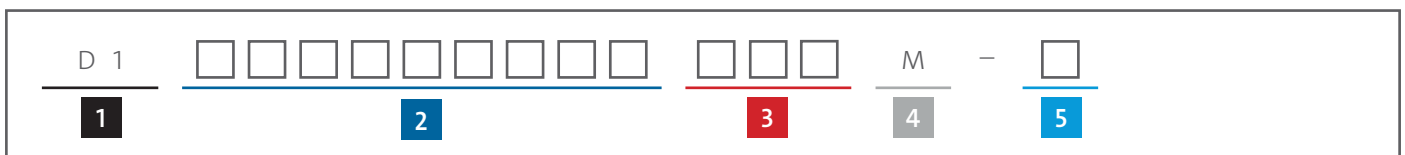
Assembly types	ROC™ and SST-Drop™ Small Cell Assemblies
Assembly Insertion Loss	0.4 dB
Connector Assembly Type	Pushlok LC Simplex

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU*
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*“Compliant with EU RoHS 2011/65/EU” means that the product or part complies with directive 2011/65/EU of the European Parliament regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment. This statement represents Corning’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to Corning.

1-Fiber and 2-Fiber Small Cell Cable Assembly Ordering Information



1 Defines connector 1.
D1 = Single-Fiber Pushlok™ Connector or Pushlok™ Connector

4 Defines unit length.
M = Meters

2 Select input.
0201JB49R = 1 F LC Connector, simplex, on ROC™ Drop cable
7801JB4FD = 1 F LC Uniboot connector, simplex, on SST-Drop cable
0402JB4FD = 2 F LC Connector, duplex, on SST-Drop cable
7802JB4FD = 2 F LC Uniboot connector, SST-Drop cable

5 Defines packaging.*
**Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*

Bulk packaging
Multiple units coiled in a box up to 455 m.
Greater than 460 m ships on a reel.

Individual packaging
Individual units coiled in a box up to 150 m.
Greater than 155 m ships on a reel.

3 Select cable assembly length
Lengths
Minimum: 2 m
Maximum: 600 m

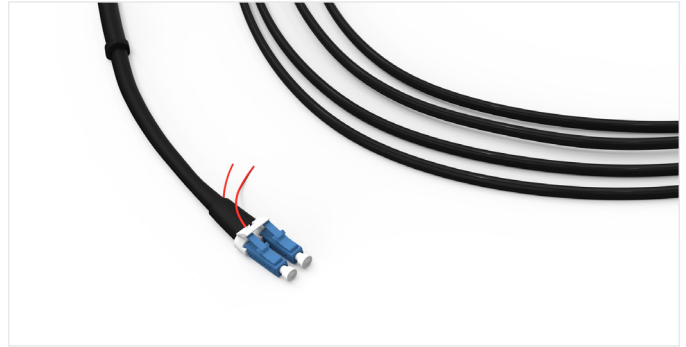


Evolv® Universal Small Cell Cable Assembly

Outdoor, dielectric, round cable design



Evolv® Universal Small Cell Assembly



Assembly offers single- or dual-fiber connectors

A new offering in Corning’s suite of products, the Evolv® Universal Small Cell Cable Assembly provides the simplicity needed for your FTTx network deployment. It works on different 5G small cell radios and delivers the necessary radio connector on a round jumper equipped with our easy plug-in Pushlok™ Technology.

The cable offers a single-fiber or dual-fiber assembly based on small-form-factor pluggable (SFP) and fiber-count allocation standards. Compatible with Corning’s Evolv terminals, the assembly’s terminal end allows for single or dual Pushlok connectors for continuity to your fiber platform.

The assembly’s radio connector end has dual functionalities for all radios with external and internal connector mounting options. Its first feature enables all field-installable connectors for radios with an externally mounted connector port that accepts a diameter of 4.6 mm within the compression equipment. The second feature allows for internal mounting within the radio housing, providing a single- or dual-fiber 5.5 in/140 mm flexible leg(s) for routing to the SFP.

With its unique ability to serve internally and externally mounted ports with field-installable connectors, this assembly allows for a single drop to service various types of radios from multiple manufacturers.

Features	Benefits
Universal Design	Specifically designed to work on different 5G radios from multiple manufacturers; weatherproof connector.
Round Cabling	Smoother installation with bend-insensitive fiber for tight applications
SKU Reduction	SKUs for small cell deployments can be reduced by more than 50% when compared to existing market jumpers for different radio vendors.
Cost Reduction	Cost per install will remain constant or decrease, as this one drop can feed multiple radio types and weatherproof connectors, resolving secondary trips for ‘proper drop’
Cable Design	Avoids kinking

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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General Specifications

Fiber Type	LBL Fiber
Environment	Outdoor
Application	FTTx
Cable Type	4.6 mm Multifiber Round Cable
Connector Assembly Type	Pushlok™-Pigtail

Multifiber Round Cable Specifications

Environment	Outdoor
Fiber Count	4
Buffer Tube Diameter	1.7 mm
Minimum Bend Radius, Operation	46 mm

Pushlok™ Connector Specifications

Insertion Loss, typical	0.15 dB
Reflectance	≤-65 dB
Outer diameter dimensions	12.0 mm (with dust cap)

LC Connector Specifications

Insertion loss, typical	0.15 dB
Reflectance	≤-65 dB
Boot color	Blue



Universal Small Cell Cable Assembly Ordering Information



1 Defines connector 1.
D1 = Pushlok™ Connector

2 Select connector 2.
02 = LC Simplex
04 = LC Duplex

3 Select input.
01JBDT3 = 1 F, LBL, Universal Drop, round cable, dielectric
01JBPT3 = 1F, LBL, Universal Drop, round cable, dielectric, with pulling grip
02JB4D9 = 2 F, LBL, Universal Drop, round cable, dielectric
02JBP4D = 2F LBL, Universal Drop, round cable, dielectric, with pulling grip

4 Select cable assembly length
Lengths
Minimum: 2 m / 6 ft
Maximum: 600 m / 2,000 ft

5 Defines unit length.
M = Meters

6 Defines packaging.*
**Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*

Bulk packaging
Multiple units coiled in a box up to 455 m.
Greater than 460 m ships on a reel.

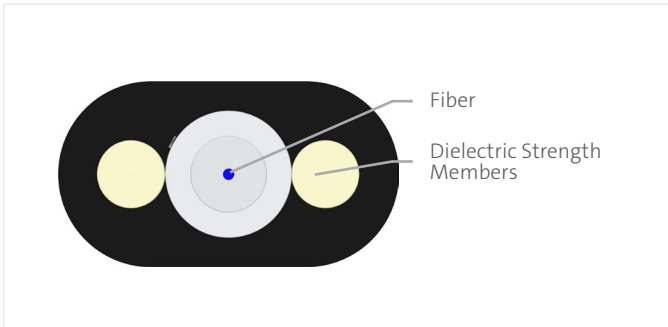
Individual packaging
Individual units coiled in a box up to 150 m.
Greater than 155 m ships on a reel.



SST-Drop™ Cable Assembly

Standard Outdoor, flat cable design, dielectric

SST-Drop Outdoor Cable Dielectric



As an industry leader in optical connectivity products, Corning designs and manufactures the SST-Drop™ cable assembly with factory-terminated, environmentally sealed and hardened connectors to reduce the cost and the time of drop cable deployment in optical access networks. The Pushlok™ drop cable assembly is specifically designed to significantly reduce required drop cable installation.

Features	Benefits
Hardened connector technology	Reduced-diameter Pushlok connector.
Flexible connector offerings	2 & 4 multifiber drops including pigtail and in-line variants. 2 F small cell variants with Pushlok hardened connectors to LC or Uniboot connectors.
Versatile installation environments	Aerial: dielectric, self-supporting at 18 kg installation tension at 50 m (NESC Heavy), 77 m (NESC Medium) or 100 m (NESC Light).

Standards	
Design and Test Criteria	GR-3120

Pushlok™ Connector Specifications	
Insertion Loss, typical	0.15 dB
Reflectance, typical	≤ -65 dB
Outer diameter dimensions	12.0 mm (with dust cap)

2- and 4-Fiber SST Cable Assemblies with Pushlok™ Technology Ordering Information



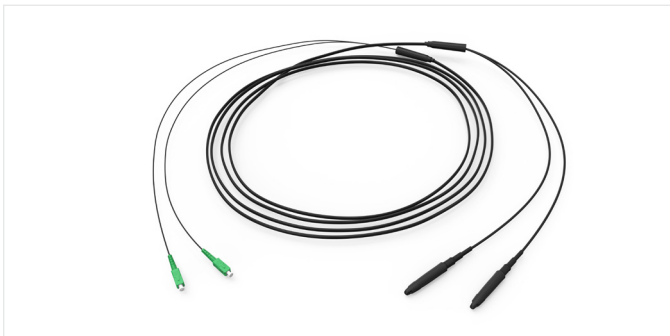
- 1** Select end one connector.
00 = No Connector
D1 = Pushlok™ Connector
- 2** Select input.
44 = SC APC connector
48 = In-line OptiTap® (SCA) connector
D1 = Pushlok™ Connector
D3 = Pushlok connector with OptiTap converter included
- 3** Select fiber count.
02 = 2 fibers
04 = 4 fibers
- 4** Select cable type.
JB4FD = SST-Drop™ cable, dielectric, LBL fiber
JBP4F = SST-Drop, dielectric, LBL fiber, with pulling grip
- 5** Select cable assembly length (three-digit length) for lengths under 1,000 m *See Table A for lengths ≥ 1,000 m*
Lengths
Minimum: 2 m
Meters lengths
2-, 3-, 5- then 5-m increments

Note: Contact customer care for extended length offerings.

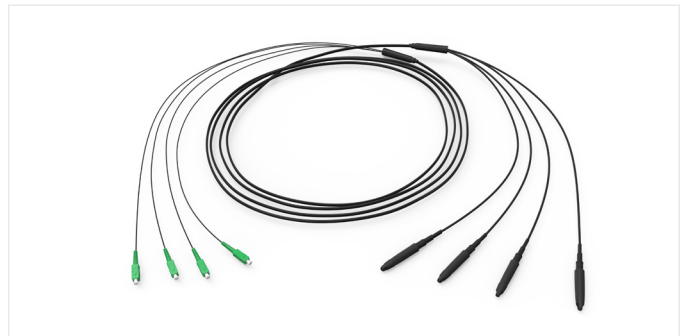
- 6** Defines unit length.
M = Meters
- 7** Defines packaging.*
**Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*
Bulk packaging
Multiple units coiled in a box up to 455 m
Greater than 460 m ships on a reel.
Individual packaging
Individual units coiled in a box up to 150 m
Greater than 155 m ships on a reel.

A00 = 1,000	C00 = 1,200	F00 = 1,500	J00 = 1,800
B00 = 1,100	D00 = 1,300	G00 = 1,600	K00 = 1,900
	E00 = 1,400	H00 = 1,700	L00 = 2,000

2 F Cable Assembly with Pushlok Technology



4 F Cable Assembly with Pushlok Technology



Evolv® Drop Accessories



Pushlok™ Drop Cable Assembly Accessory Information

Evolv® SC Converter with Pushlok™ Technology

Part Number	KT-PL-SHROUD-SC
Description	SC APC shroud for converting Pushlok drop connectors to an SC form factor
Minimum Order Quantity (MOQ)	10



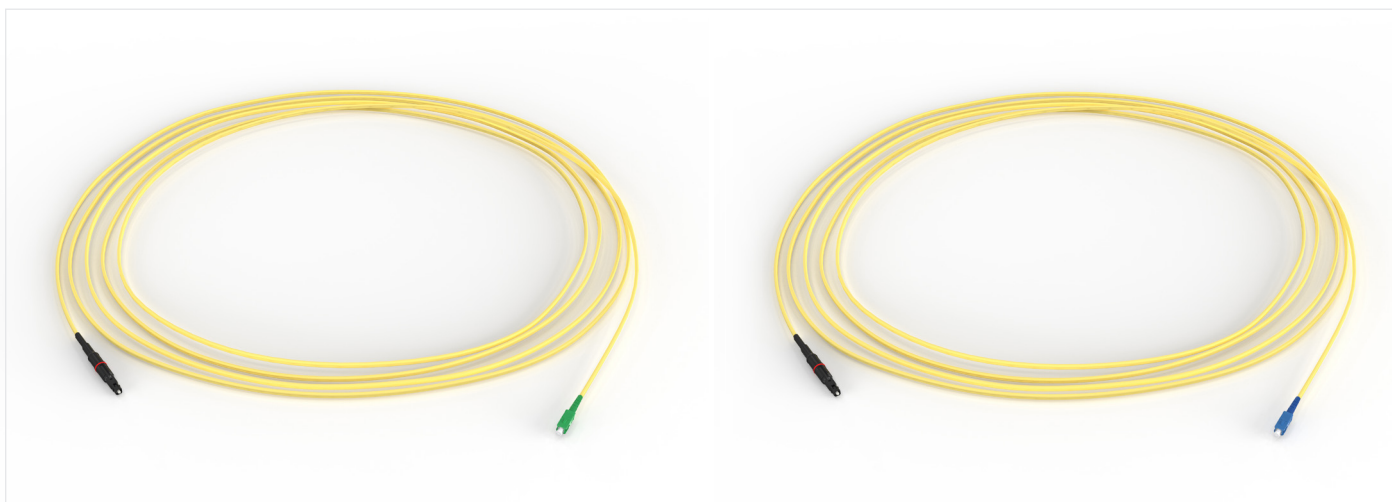
Pushlok Drop Cable Assembly Accessory Information

Evolv OptiTap® Converter with Pushlok Technology

Part Number	KT-PL-OPT-CONV
Description	OptiTap housing for converting Pushlok drop connectors to an OptiTap form factor
Minimum Order Quantity (MOQ)	10



Evolv® Test Jumpers with Pushlok™ Technology



Accessory Information

SC APC Test Jumper

Part Number	D14401E31AJ003M
Description	Evolv Test Jumper with Pushlok Technology, 1 F Pushlok to SC APC simplex, 3 m

SC APC Test Jumper

Part Number	D15801E31AJ003M
Description	Evolv Test Jumper with Pushlok Technology, 1 F Pushlok to SC UPC simplex, 3 m

Evolv Maintenance Extender In-Line with Pushlok Technology



2 m part number: D14801EB49R002M-P.

Accessory Information

Evolv Maintenance Extender In-Line

Part Number – 2 m extender	D14801EB49R002M-P, available in both individual and bulk packaging
Description	Evolv Maintenance Extenders In-Line with Pushlok Technology, 1 F Pushlok to 1 F in-line, dielectric, 2 m, individual packaging. For customers who are replacing existing multiport terminals in the field with Evolv Terminals with Pushlok Technology, maintenance extenders can be used to convert existing OptiTap® drops to Pushlok drops. The in-line will connect to the installed OptiTap drop, and the Pushlok connector will plug into the new Evolv terminal port.

Evolv® Port Cleaner with Pushlok™ Technology



Accessory Information

Evolv Port Cleaner with Pushlok Technology

Part Number	CLEANER-PUSHLOK
Description	The Evolv port cleaner with Pushlok technology is compatible with both Pushlok and OptiTap® connectors and Evolv terminals and multiports. Single-fiber port cleaner accessories are proven effective for removing the following from connector end faces: skin oil, hand lotion, Arizona road dust, pre- and postmate graphite, salt, isopropyl alcohol residue, and distilled water residue. These cleaners are easy to use and offer over 525 cleanings.
Standards	Free of hazardous substances according to RoHS 2011/65/EU





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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