# CORNING

Evolv™ Solution with Pushlok™ Technology

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	Eliminate 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	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. It is also rated to IP68, defined by the IEC and used by the National Electrical Manufactures Association (NEMA) to indicate its uninterrupted performance in high-pressure immersion environments.

Evolv™ Terminals with Pushlok™ Technology
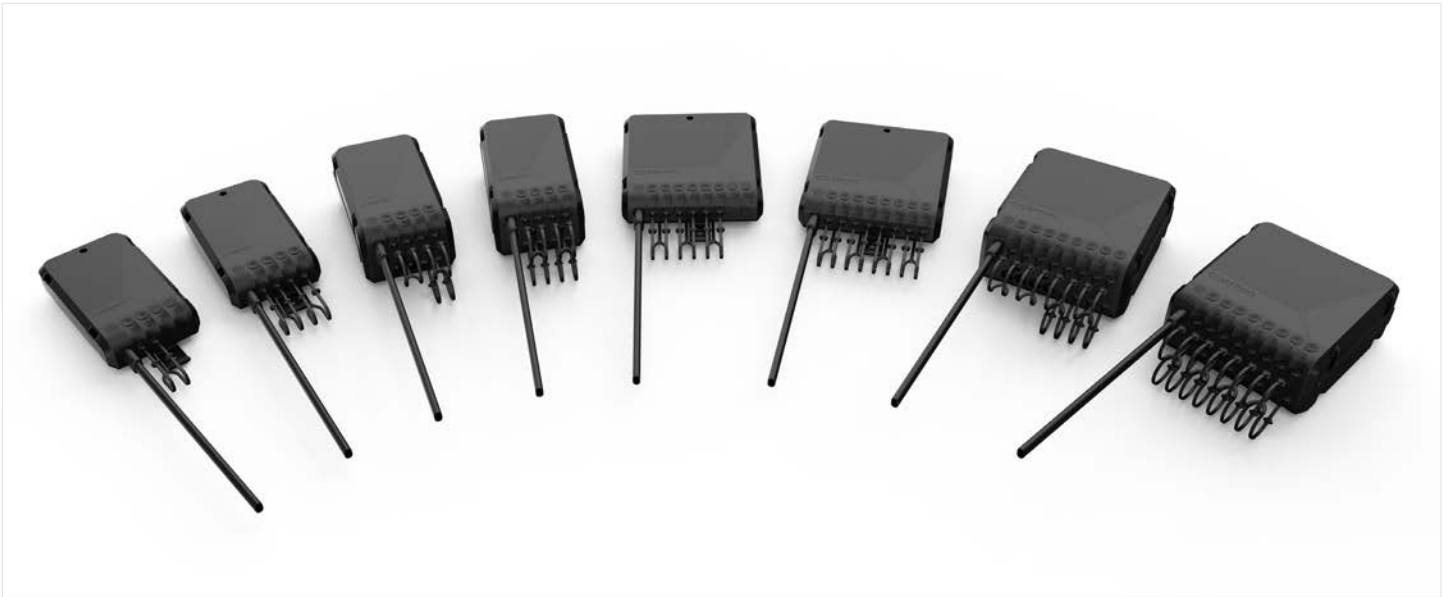
There are two styles of terminals designed to meet various space and density requirements: terminals with one row of adapter ports and terminals with two rows of adapter ports. For terminals with one row of adapter ports, the ports are aligned in a single row with the input stub on the left and 2-, 4-, 6- or 8-distribution ports on the right. For terminals with two rows of ports, the input stub is on the font 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	100 lb 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

Standards	
Telcordia	Designed to Telcordia GR-771-CORE, Issue 1

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 (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	-0.65 dB
OptiTap® Multifiber Connector	Single-mode (OS2)	0.50 dB	0.35 dB	-0.65 dB

Packaging

Cable Stub Length	Dimensions (L x W x H)	Packaging Method
Cables ≤ 350 ft	152 x 762 x 762 mm (6 x 30 x 30 in)	Box
Cables ≥ 350 ft	846 x 178 x 846 mm (33 x 7 x 33 in)	Reel

Terminal Cable Stub Information

SST Cable Stub

Application	Corning SST-Drop™ cables offer the ease of installation of standard ALTOS cable in an easy-access, single-tube design. The toneable version allows for effortless detection of buried cable with a toning conductor that can be separated. The dielectric version eliminates any bonding and grounding requirements
Cable Specification Reference Materials	1-12F SST Toneable Cable: Family Spec Sheet 0336_NAFTA_AEN 12F SST Dielectric Cable: Product Specification 012EB4-14701A20_NAFTA_AEN

MiniXtend Cable Stub

|	
Application	Corning MiniXtend® Cable with Binderless* FastAccess® Technology is an all-dielectric loose tube cable designed for microduct applications. The outer diameter of the 12-72F cable is 5.4 mm (0.21 in).
Cable Specification Reference Materials	Family Spec Sheet 0136_NAFTA_AEN

*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

Evolv Splitter Terminal 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**
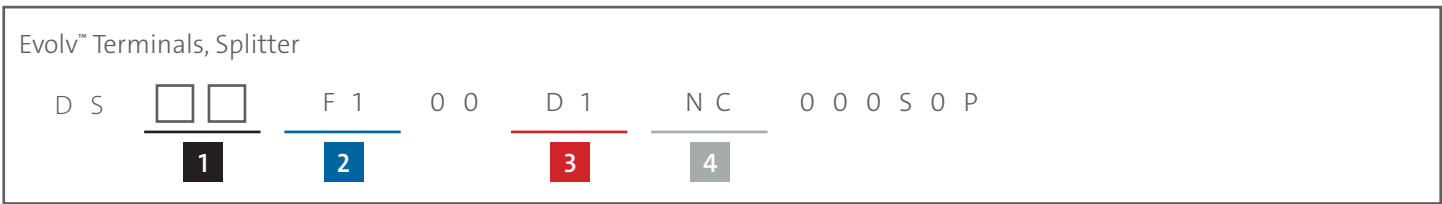
1 Select number of Pushlok™ single-fiber connector ports.

H2 = 2 ports   F9 = 8 ports (2 rows of 4 ports)
H4 = 4 ports   P6 = 16 ports (2 rows of 8 ports)
F8 = 8 ports

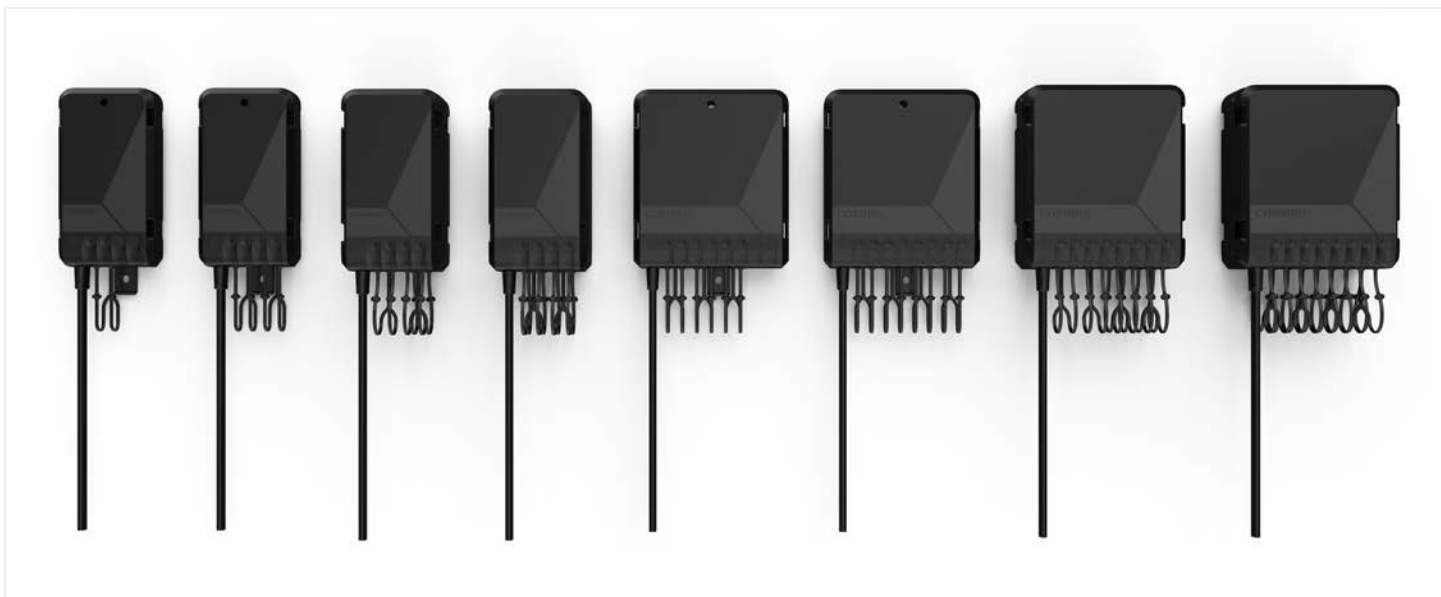**2** Defines connector type.

F1 = Single-fiber per port

3 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

Stubbed Terminals — See Additional Configurations on Page 6	
Part Number	Product Description
DMA2F1TDD1NC010F0P	Evolv™ Terminal with Pushlok™ Technology, 2 port, stubbed, SST toneable, 10 ft
DMA4F1FDD1NC050F0P	Evolv Terminal with Pushlok Technology, 4 port, stubbed, SST dielectric, 50 ft
DMA6F1TDD1NC100F0P	Evolv Terminal with Pushlok Technology, 6 port, stubbed, SST toneable, 100 ft
DMB3F1TDD1NC150F0P	Evolv Terminal with Pushlok Technology, 6 port, 2 rows of 4 ports (2 filled), stubbed, SST toneable, 150 ft
DMA8F1FDD1NC500F0P	Evolv Terminal with Pushlok Technology, 8 port, stubbed, SST dielectric, 500 ft
DMB4F1TDD1NC010F0P	Evolv Terminal with Pushlok Technology, 8 port, 2 rows of 4 ports, stubbed, SST toneable, 10 ft
DMB6F1FDD1NC050F0P	Evolv Terminal with Pushlok Technology, 12 port, 2 rows of 8 ports (4 filled), stubbed, SST dielectric, 50 ft
DMB8F1FDD1NC100F0P	Evolv Terminal with Pushlok Technology, 16 port, 2 rows of 8 ports, stubbed, SST dielectric, 100 ft
DMA2F1MLD1NC010F0P	Evolv Terminal with Pushlok Technology, 2 port, stubbed, MiniXtend®, 10 ft
DMA4F1MLD1NC050F0P	Evolv Terminal with Pushlok Technology, 4 port, stubbed, MiniXtend, 50 ft
DMA6F1MLD1NC100F0P	Evolv Terminal with Pushlok Technology, 6 port, stubbed, MiniXtend, 100 ft
DMB3F1MLD1NC200F0P	Evolv Terminal with Pushlok Technology, 6 port, 2 rows of 4 ports (2 filled), stubbed, MiniXtend, 200 ft
DMA8F1MLD1NC500F0P	Evolv Terminal with Pushlok Technology, 8 port, stubbed, MiniXtend, 500 ft
DMB4F1MLD1NC010F0P	Evolv Terminal with Pushlok Technology, 8 port, 2 rows of 4 ports, stubbed, MiniXtend, 10 ft
DMB6F1MLD1NC050F0P	Evolv Terminal with Pushlok Technology, 12 port, 2 rows of 8 ports (4 filled), stubbed, MiniXtend, 50 ft
DMB8F1MLD1NC100F0P	Evolv Terminal with Pushlok Technology, 16 port, 2 rows of 8 ports, stubbed, MiniXtend, 100 ft

Evolv™ Stubbed Terminal Ordering Information

Evolv Terminals, Stubbed

D M ☐☐ F 1 ☐☐ D 1 N C ☐☐☐ ☐ 0 ☐

| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |

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

A2 = 2 ports
A4 = 4 ports
A6 = 6 ports
A8 = 8 ports

B3 = 6 ports (2 rows of 4 ports, 2 filled)
B4 = 8 ports (2 rows of 4 ports)
B6 = 12 ports (2 rows of 8 ports, 4 filled)
B8 = 16 ports (2 rows of 8 ports)*
*only available with MiniXtend stub;
SST dielectric stub coming soon*

2 Defines connector type.

F1 = Single-fiber per port

3 Select cable type.

FD = SST flat dielectric drop cable
TD = SST flat toneable drop cable
ML = MiniXtend® loose tube 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.

10 ft increments up to 3,400 ft available.
See Table A for lengths ≥ 1,000 ft.

7 Select unit length.

F = Feet
M = Meters

8 Select packaging.

P = Standard spool — individual packaging
Z = Reverse spool — individual packaging
B = Bulk packaging

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

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

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

Stubbed Terminals for FlexNAP Systems — See Additional Configurations on Page 8

Part Number	Product Description
DFA2F1FDD1M1050F0P	Evolv™ Terminal with Pushlok™ Technology, 2 port, preconnectorized OptiTip® stub, SST dielectric, 50 ft
DFA4F1FDD1M1100F0P	Evolv Terminal with Pushlok Technology, 4 port, preconnectorized OptiTip stub, SST dielectric, 100 ft
DFA6F1FDD1M1100F0P	Evolv Terminal with Pushlok Technology, 6 port, preconnectorized OptiTip stub, SST dielectric, 100 ft
DFB3F1FDD1NC150F0P	Evolv Terminal with Pushlok Technology, 6 port, 2 rows of 4 ports (2 filled), preconnectorized OptiTip stub, SST dielectric, 150 ft
DFA8F1FDD1M1500F0P	Evolv Terminal with Pushlok Technology, 8 port, preconnectorized OptiTip stub, SST dielectric, 500 ft
DFB4F1FDD1M1050F0P	Evolv Terminal with Pushlok Technology, 8 port, 2 rows of 4 ports, preconnectorized OptiTip stub, SST dielectric, 50 ft
DFB6F1FDD1M1100F0P	Evolv Terminal with Pushlok Technology, 12 port, 2 rows of 8 ports (4 filled), preconnectorized OptiTip stub, SST dielectric, 100 ft

Evolv™ Terminal, Stubbed for FlexNAP™ Systems Ordering Information

Evolv™ Terminals, Stubbed for Standard FlexNAP™ Systems

D F ☐☐ F 1 ☐☐ D 1 M 1 ☐☐☐ ☐ 0 ☐
1 **2** **3** **4** **5** **6** **7** **8**

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

A2 = 2 ports
A4 = 4 ports
A6 = 6 ports
A8 = 8 ports

B3 = 6 ports (2 rows of 4 ports, 2 filled)
B4 = 8 ports (2 rows of 4 ports)
B6 = 12 ports (2 rows of 8 ports, 4 filled)

2 Defines connector type.

F1 = Single-fiber per port

3 Select cable type.

FD = SST flat dielectric drop cable
TD = SST flat toneable drop cable

4 Defines port connector type.

D1 = Single-fiber Pushlok SC APC

5 Defines tail connector type.

M1 = OptiTap® connector

6 Select cable stub length.

10 ft increments up to 3,400 ft available.
See Table A for lengths ≥ 1,000 ft.

7 Select unit length.

F = Feet
M = Meters

8 Select packaging.

P = Standard spool — individual packaging
Z = Reverse spool — individual packaging
B = Bulk packaging

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

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

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.
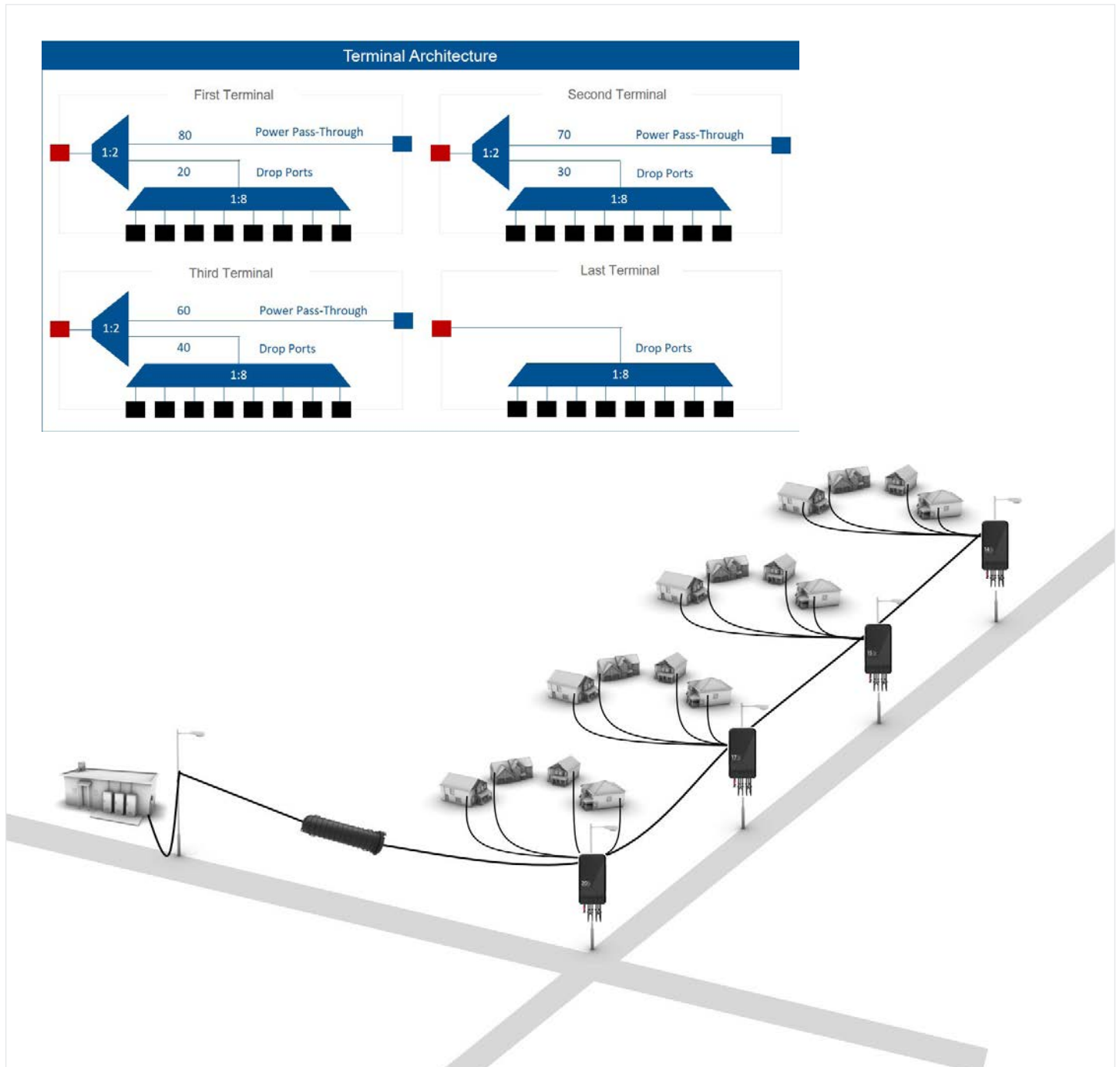
Optical Tap Network Architecture Example Illustration (8-Port Evolv™ Terminals Shown)

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	50 lbs
Axial Pull, Plug to Cable	100 lbs 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	20.420 dB	-55 dB
Pass-Through Port	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

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

Evolv™ Terminals, Optical Tap

D T [ ][ ][ ][ ] [ ][ ] 0 0 N C 0 0 0 S 0 [ ]

1 **2** **3**

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1 Defines number of terminal ports.

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

2 Defines 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
DTA4X21500NC000S0P	Optical Tap Evolv Terminal, 90/10 power distribution, 2 port, stubless	1
DTA8X41700NC000S0P	Optical Tap Evolv Terminal, 90/10 power distribution, 4 port, stubless	1
DTB4X82000NC000S0P	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)
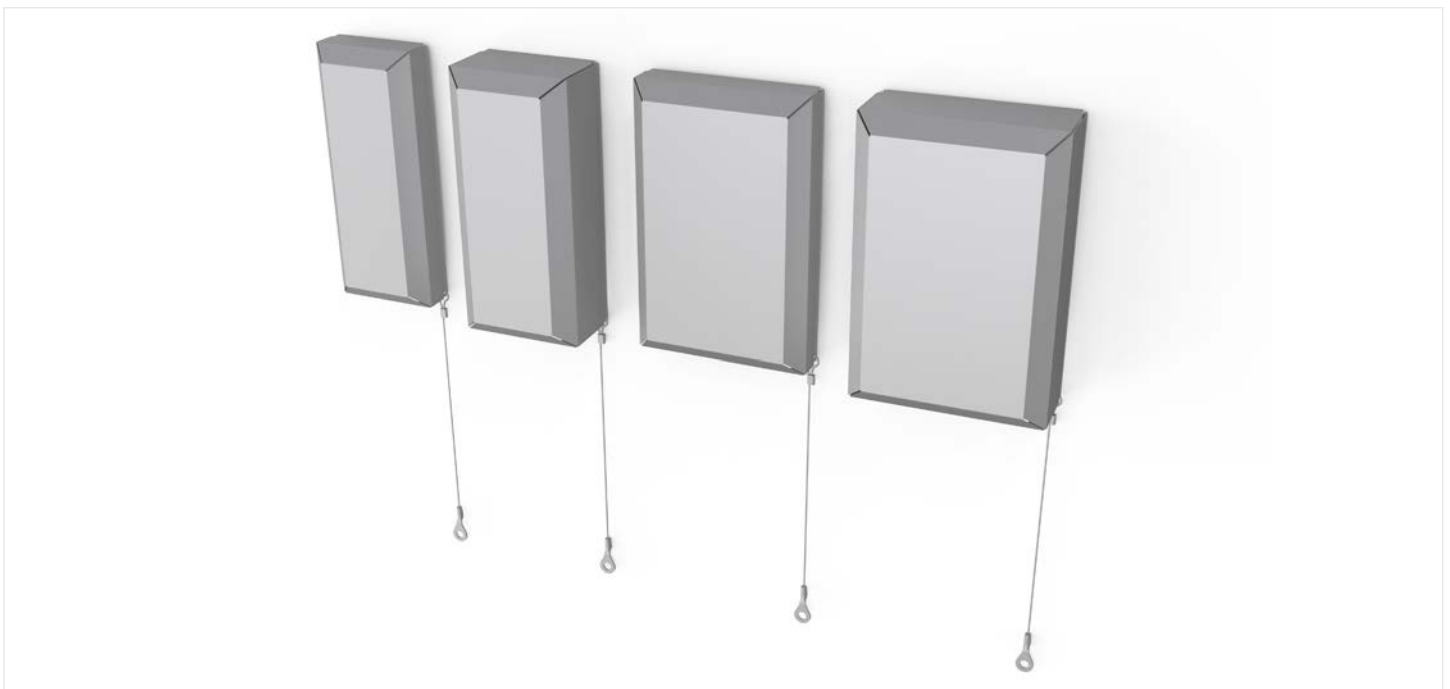
Evolv Terminal Covers

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, 2 rows of 4 ports, Cover
EHC-CVR-B8-GRAY	Evolv 12- and 16-Port Terminal, 2 rows of 8 ports, Cover

CORNING

Evolv™ Drops with Pushlok™ Technology

| 1F ROC Drop, Pushlok to Pushlok | 1F ROC Drop, Pushlok to SC APC | 1F ROC Drop, Pushlok to Pigtail |

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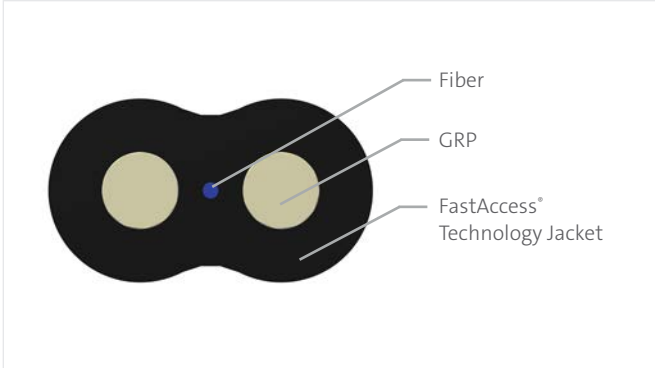
To supplement the new Evolv Terminal portfolio, the Evolv Drop assemblies will also feature Pushlok technology. The Evolv Drop portfolio includes 1F ROC™ drop cables, 2F SST-Drop™ cables, and 4F SST-Drop cables. SC APC converters, OptiTap® converters, test jumpers, and maintenance extenders are available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

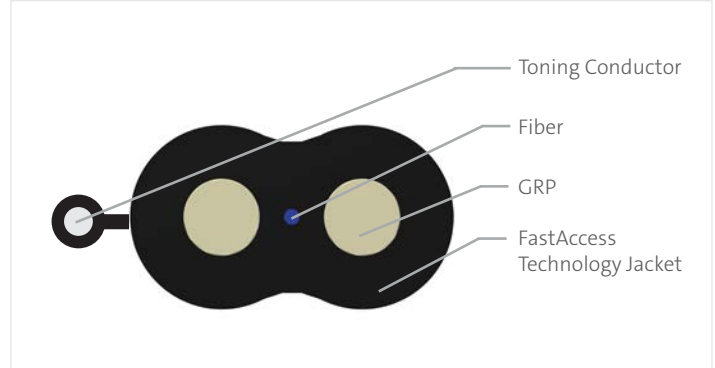| Features	Benefits
Hardened connector technology	Reduced-diameter Pushlok connector.
Flexible connector offerings	Dual-ended or pigtailed versions to accommodate any ONT interface. Hybrid assemblies with hardened connector (terminal) to SC APC (ONT). 1 & 2F small cell variants with Pushlok connectors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

CORNING

ROC™ Drop Cable Assembly
Outdoor, flat cable design, dielectric or toneable

Dielectric

Fiber

GRP

FastAccess®
Technology Jacket

Toneable

Toning Conductor

Fiber

GRP

FastAccess
Technology Jacket

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 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; OptiTap connector is suitable for 1.25-in conduit; Pushlok connector is suitable for 13-mm inner diameter duct.

Standards	
Design and Test Criteria	GR-3120

Pushlok™ Connector Specifications	
Insertion Loss, typical	0.15 dB
Reflectance, typical	-0.65 dB
Outer diameter dimensions	12.0 mm (with dust cap)

Cable Specifications	
Axial Pull, plug-to-adapter coupling strength	50.0 lb
Axial Pull, plug-to-cable, through the dust cap	100.0 lb
Cold mate/demate	-40°C mechanical testing

Ordering Information

☐☐ ☐☐ 0 1 E B ☐☐☐ ☐☐☐ ☐ – ☐
1 **2**   **3**   **4**   **5**   **6**

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
19R = ROC 900 µm toneable cable with FastAccess
technology
PFR = ROC dielectric cable, heat-shrink furcation,
2.9 mm leg on simplex connector end with
pulling grip
PTR = ROC toneable 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
1R3 = ROC toneable cable, heat-shrink furcation leg on
simplex connector end

4 Select cable assembly length (three-digit length) for
lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

Lengths
Minimum: 2 m/6 ft

Meters lengths
2, 3, 5 then 5-m increments up to 600 m

Foot lengths
6, 10, then 10- or 25-ft increments up to 2,000 ft

Note: Contact customer care for extended length offerings.

5 Select cable assembly unit of length.

F = Feet
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 1,500 ft/455 m.
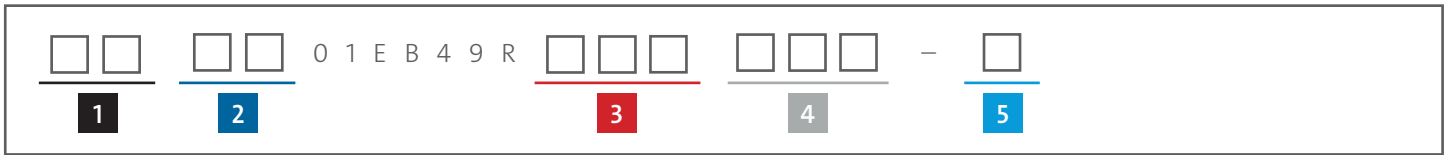Greater than 1501 ft/460 m ships on a reel.

Individual packaging
Individual units coiled in a box up to 500 ft/150 m.
Greater than 500 ft/155 m ships on a reel.

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

1 F Small Cell ROC™ Drop Ordering Information

```
[  ][  ]  [  ][  ] 0 1 E B 4 9 R [  ][  ][  ]  [  ][  ][  ] – [  ]
   1          2                       3             4           5
```

1 Select end one connector.

D1 = Pushlok Connector

2 Select input.

02 = LC Connector, simplex
78 = LC Uniboot Connector

3 Select cable assembly length (three-digit length) for lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

Lengths
Minimum: 2 m/6 ft

Meters lengths
2, 3, 5 then 5-m increments up to 600 m

Foot lengths
6, 10, then 10- or 25-ft increments up to 2,000 ft

Note: Contact customer care for extended length offerings.

4 Select cable assembly unit of length.

F = Feet
M = Meters

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Bulk packaging
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Individual packaging
Individual units coiled in a box up to 500 ft/150 m.
Greater than 500 ft/155 m ships on a reel.

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

1F ROC Drop, Pushlok to LC

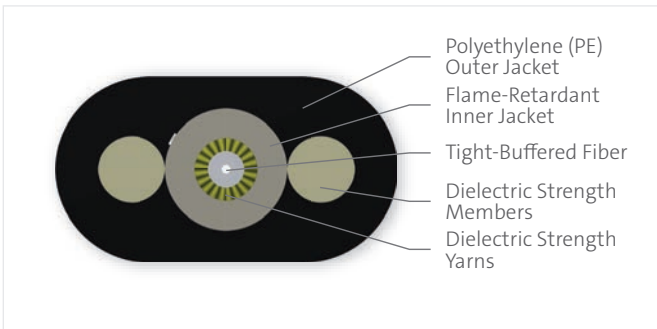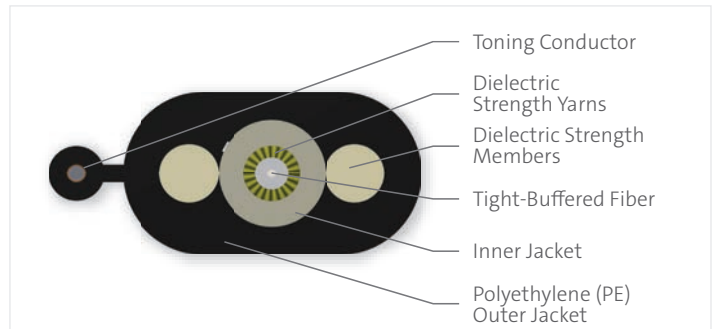## 1F ROC Drop, Pushlok to Uniboot

SST-Drop™ Cable Assembly

Standard Outdoor or Indoor/Outdoor, flat cable design, dielectric or toneable

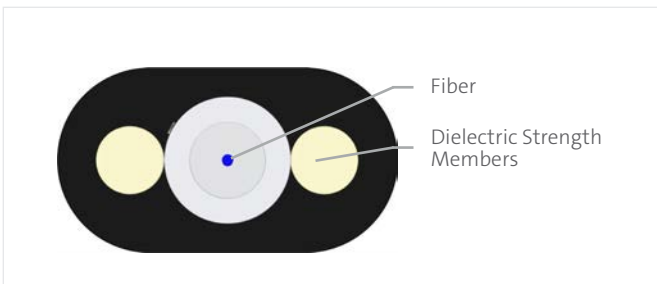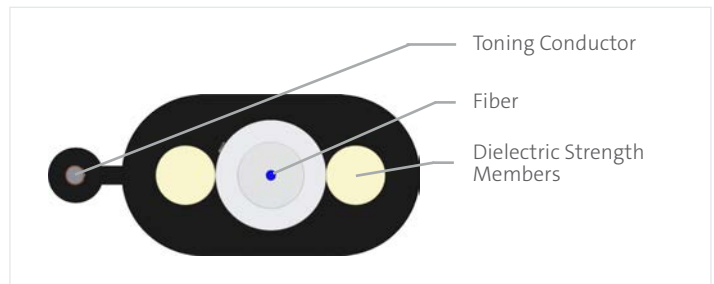## SST- Drop Indoor/Outdoor Cable

Dielectric

- Polyethylene (PE) Outer Jacket
- Flame-Retardant Inner Jacket
- Tight-Buffered Fiber
- Dielectric Strength Members
- Dielectric Strength Yarns

Toneable

- Toning Conductor
- Dielectric Strength Yarns
- Dielectric Strength Members
- Tight-Buffered Fiber
- Inner Jacket
- Polyethylene (PE) Outer Jacket

SST- Drop Outdoor Cable

Dielectric

- Fiber
- Dielectric Strength Members

Toneable

- Toning Conductor
- Fiber
- Dielectric Strength Members

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.
Indoor/outdoor drop has flame-retardant inner jacket	Indoor/Outdoor SST-Drop can be leveraged for indoor & outdoor applications
Flexible connector offerings	2 & 4 multifiber drops including pigtail and inline variants. 2F small cell variants with Pushlok hardened connectors to LC or Uniboot connectors.
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.

Standards	
Design and Test Criteria	GR-3120

Pushlok™ Connector Specifications	
Insertion Loss, typical	0.15 dB
Reflectance, typical	-0.65 dB
Outer diameter dimensions	12.0 mm (with dust cap)

2 F SST-Drop™ Indoor/Outdoor Ordering Information

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0 0     D 1     0 2     ☐☐☐☐   ☐☐☐   ☐  –  ☐
 [1]      [2]     [3]      [4]      [5]   [6]   [7]
```

1 Select end one connector.

00 = No Connector

2 Select input.

D1 = Pushlok Connector

3 Select fiber count.

02 = 2 fibers

4 Select cable type.

JB1TD = SST-Drop cable, toneable, Pushlok pigtail
JB4FD = SST-Drop cable, dielectric, Pushlok pigtail

5 Select cable assembly length (three-digit length) for lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

Lengths
Minimum: 2 m/6 ft

Meters lengths
2, 3, 5 then 5-m increments up to 600 m

Foot lengths
6, 10, then 10- or 25-ft increments up to 2,000 ft

Note: Contact customer care for extended length offerings.

6 Select cable assembly unit of length.

F = Feet
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 1,500 ft/455 m.
Greater than 1501 ft/460 m ships on a reel.

Individual packaging
Individual units coiled in a box up to 500 ft/150 m.
Greater than 500 ft/155 m ships on a reel.

Table A: Alpha codes for lengths ≥ 1,000 ft			
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 SST-Drop, Indoor/Outdoor, Pushlok Pigtail

2 F Small Cell SST-Drop™ Ordering Information

D 1	☐☐	0 2	J B 4 F D	☐☐☐	☐	–	☐
1	**2**	**3**	**4**	**5**	**6**		**7**

1 Select end one connector.

D1 = Pushlok Connector

2 Select input.

04 = LC Duplex (for small cell applications)
78 = LC Uniboot (for small cell applications)

3 Select fiber count.

02 = 2 fibers

4 Select cable type.

JB4FD = SST-Drop cable, dielectric, Pushlok to LC or
Uniboot connectors

5 Select cable assembly length (three-digit length) for lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

Lengths
Minimum: 2 m/6 ft

Meters lengths
2, 3, 5 then 5-m increments up to 600 m

Foot lengths
6, 10, then 10- or 25-ft increments up to 2,000 ft

Note: Contact customer care for extended length offerings.

6 Select cable assembly unit of length.

F = Feet
M = Meters

7 Defines packaging.*

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Individual packaging
Individual units coiled in a box up to 500 ft/150 m.
Greater than 500 ft/155 m ships on a reel.

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

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 SST-Drop, Outdoor, Pushlok to LC Duplex

2 F SST-Drop, Outdoor, Pushlok to Uniboot

2 F In-Line SST-Drop™ Ordering Information

D 1	4 8	0 2	☐☐☐☐	☐☐☐	☐	–	☐
1	**2**	**3**	**4**	**5**	**6**		**7**

1 Select end one connector.

D1 = Pushlok Connector

2 Select input.

48 = In-Line

3 Select fiber count.

02 = 2 fibers

4 Select cable type.

EB1TD = SST-Drop cable, toneable, Pushlok to In-Line
EB4FD = SST-Drop cable, dielectric, Pushlok to In-Line

5 Select cable assembly length (three-digit length) for lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

Lengths
Minimum: 2 m/6 ft

Meters lengths
2, 3, 5 then 5-m increments up to 600 m

Foot lengths
6, 10, then 10- or 25-ft increments up to 2,000 ft

Note: Contact customer care for extended length offerings.

6 Select cable assembly unit of length.

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	E00 = 1,400	H00 = 1,700	L00 = 2,000

2 F SST-Drop, Outdoor, Pushlok to In-Line

4 F SST-Drop™ Ordering Information

```
0 0    D 1    0 4    ☐☐☐☐  ☐☐☐  ☐  –  ☐
  1      2      3       4      5    6     7
```

1 Select end one connector.

00 = No Connector

2 Select input.

D1 = Pushlok Connector

3 Select fiber count.

04 = 4 fibers

4 Select cable type.

JB1TD = SST-Drop cable, toneable, Pushlok pigtail
JB4FD = SST-Drop cable, dielectric, Pushlok pigtail

5 Select cable assembly length (three-digit length) for lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

Lengths
Minimum: 2 m/6 ft

Meters lengths
2, 3, 5 then 5-m increments up to 600 m

Foot lengths
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Note: Contact customer care for extended length offerings.

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4 F SST-Drop, Outdoor, Pushlok to Pigtail

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

Accessory Information	
Evolv Maintenance Extender Inline	
Part Number	D14801EB49R007F-P
Description	Evolv Maintenance Extender Inline with Pushlok Technology, 1F Pushlok to 1F Inline, Dielectric , 7 ft, 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 Inline 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