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	Single-fiber and multifiber Pushlok connectors are a fraction of the size of their predecessors allowing for savings across the build – including shipping, warehousing, and installation.
Backward compatibility	Accessories and converters allow Pushlok assemblies and terminals to intermate with existing OptiTap®- or OptiTip®-based solutions.
"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 can 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 Manufacturers Association (NEMA) to indicate its uninterrupted performance in high-pressure immersion environments.

Table of contents

Evolv® Terminals with Pushlok® Technology
Stubbed Terminals
Stubbed Terminals for FlexNAP™ Systems
Stubless Terminals
Splitter Terminals
Optical Tap Terminals
Evolv BPEO Closures with Pushlok Technology
ECAM Converter
Evolv Terminal Accessories
Evolv Assemblies with Pushlok Technology
ROC [™] Drop Cable Assembly
Round ROC Drop Cable Assembly with Pushlok Technology
Long-Span ROC Drop All-Dielectric Self-Supporting (ADSS) Cable Assemblies with Pushlok Technology
Evolv FlexNAP System with Multifiber Tethers
2- and 4-Fiber SST-Drop™ Cable Assembly
1- and 2-Fiber Small Cell Cable Assemblies
Evolv Assembly Accessories
Test Jumpers
Maintenance Extenders In-Line
Port Cleaners
1-Fiber Pushlok Adapter

CORNING

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-, 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	Lowers installation cost and increase speed of connection.
Standard and integrated splitter terminal options	Solution supports various architecture types.
Split or unsplit configurations	Adaptable to a variety of network architectures.
Available stubless, stubbed, or preterminated	Compatible with existing FlexNAP™ system 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.

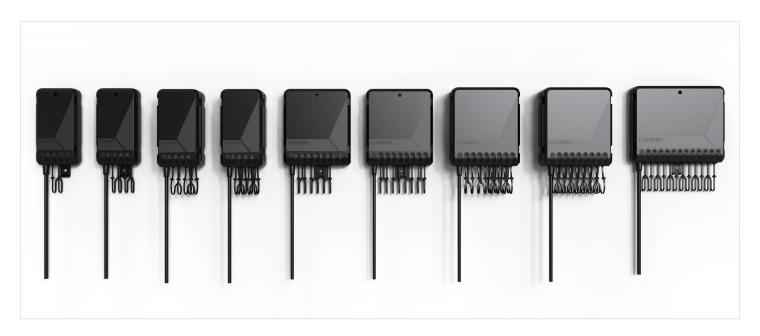
Standards	
Telcordia	Designed to Telcordia GR-771-CORE, Issue 1

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)	0.40 dB	0.15 dB	-65 dB
Multifiber Pushlok Connector	Single-mode (OS2)	0.35 dB	0.15 dB	-65 dB
OptiTip® Multifiber Connector	Single-mode (OS2)	0.50 dB	0.35 dB	-65 dB
Packaging				
Cable Stub Length	Dimensions (L x W x H)		Packaging Method	
Cables ≤ 650 ft	152 x 762 x 762 mm (6 x 30 x 30 in)		Box	
Cables > 650 ft	846 x 178 x 846 mm (33 x 7 x 33 in)		Reel	

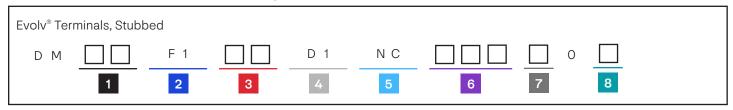
Terminal Cable Stub Information		
SST-Drop [™] Cable Stub		
Application	SST-Drop cable offers the ease of installation of standard ALTOS® cable in an easy-access, single-tube design. The toneable version allows for effortless detection of buried cable with a toning conductor that can be separated. The 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	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	
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 400 ft (NESC Heavy) to 500 ft (NESC Medium).	

Evolv® Stubbed Terminals with Pushlok® Technology



Stubbed Terminals — Se	ee Additional Configurations on Page 7
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
DMATF1FDD1NC050F0P	Evolv Terminal with Pushlok Technology, 12 port, stubbed, SST dielectric, 50 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
DMATF1MLD1NC050F0P	Evolv Terminal with Pushlok Technology, 12 port, stubbed, MiniXtend, 50 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
DMA8F1LSD1NC250F0P	Evolv Terminal with Pushlok Technology, 8 port, stubbed, Long-Span SST, dielectric, 250 ft
DMATF1LSD1NC500F0P	Evolv Terminal with Pushlok Technology, 12 port, stubbed, Long-Span SST, dielectric, 500 ft

Evolv® Stubbed Terminal Ordering Information



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

 $\begin{array}{lll} \text{A2} = 2 \, \text{ports} & \text{B3} = 6 \, \text{ports} \, (2 \, \text{rows of 4 ports}, 2 \, \text{filled}) \\ \text{A4} = 4 \, \text{ports} & \text{B4} = 8 \, \text{ports} \, (2 \, \text{rows of 4 ports}) \\ \text{A6} = 6 \, \text{ports} & \text{B6} = 12 \, \text{ports} \, (2 \, \text{rows of 8 ports}, 4 \, \text{filled}) \\ \text{A8} = 8 \, \text{ports} & \text{B8} = 16 \, \text{ports} \, (2 \, \text{rows of 8 ports})^* \\ \text{AT} = 12 \, \text{ports} & *only \, available \, with \, \textit{MiniXtend}^e \, \text{stub} \end{array}$

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

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.

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

7 Select unit length.

F = Feet M = Meters

8 Select packaging.

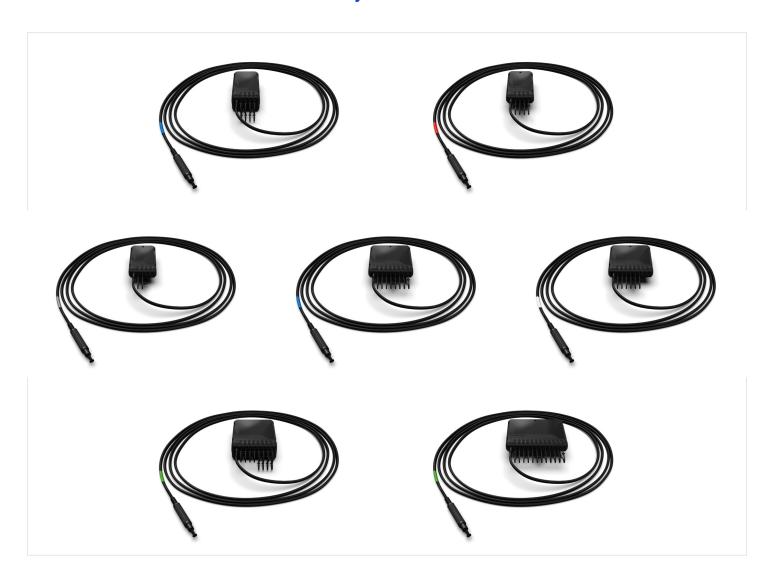
P = Standard spool — individual packaging

Z = Reverse spool — individual packaging

B = Bulk packaging

Table A: Alpha co	odes for lengths ≥ 1	,000 ft	
A00 = 1,000 B00 = 1,100 C00 = 1,200 D00 = 1,300 E00 = 1,400 F00 = 1,500 G00 = 1,600	H00 = 1,700 J00 = 1,800 K00 = 1,900 L00 = 2,000 M00 = 2,100 N00 = 2,200 P00 = 2,300	Q00 = 2,400 R00 = 2,500 S00 = 2,600 T00 = 2,700 U00 = 2,800 V00 = 2,900 W00 = 3,000	X00 = 3,100 Y00 = 3,200 Z00 = 3,300

Evolv® Stubbed Terminals for FlexNAP™ Systems



Stubbed Terminals for FlexNAP [™] Systems		
Part Number	Product Description	
DFA2F1FDD1T1010F0P	Evolv® Terminal with Pushlok® Technology, 2 port, preconnectorized Multifiber Pushlok stub, SST dielectric, 10 ft	
DFA2F1TDD1T1025F0P	Evolv Terminal with Pushlok Technology, 2 port, preconnectorized Multifiber Pushlok stub, SST toneable, 25 ft	
DFA4F1FDD1T1010F0P	Evolv Terminal with Pushlok Technology, 4 port, preconnectorized Multifiber Pushlok stub, SST dielectric, 10 ft	
DFA4F1TDD1T1025F0P	Evolv Terminal with Pushlok Technology, 4 port, preconnectorized Multifiber Pushlok stub, SST toneable, 25 ft	
DFA6F1FDD1T1010F0P	Evolv Terminal with Pushlok Technology, 6 port, preconnectorized Multifiber Pushlok stub, SST dielectric, 10 ft	
DFA6F1TDD1T1025F0P	Evolv Terminal with Pushlok Technology, 6 port, preconnectorized Multifiber Pushlok stub, SST toneable, 25 ft	
DFA8F1FDD1T1010F0P	Evolv Terminal with Pushlok Technology, 8 port, preconnectorized Multifiber Pushlok stub, SST dielectric, 10 ft	
DFA8F1TDD1T1025F0P	Evolv Terminal with Pushlok Technology, 8 port, preconnectorized Multifiber Pushlok stub, SST toneable, 25 ft	
DFATF1FDD1T1010F0P	Evolv Terminal with Pushlok Technology, 12 port, preconnectorized Multifiber Pushlok stub, SST dielectric, 10 ft	
DFATF1TDD1T1025F0P	Evolv Terminal with Pushlok Technology, 12 port, preconnectorized Multifiber Pushlok stub, SST toneable, 25 ft	

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

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

A8 = 8 portsAT = 12 ports

2 Defines output port fiber count

F1 = Single-fiber per port

3 Select cable type.

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

4 Defines output port type.

D1 = Single-fiber Pushlok SC APC

5 Defines tail connector type.

T1 = Multifiber Pushlok Connector (female) M1 = OptiTip® connector 6 Select cable stub length.

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

7 Select unit length.

F = Feet M = Meters

8 Select packaging.

 $\begin{array}{ll} P = Standard\,spool-individual\,packaging \\ Z = Reverse\,spool-individual\,packaging \end{array}$

B = Bulk packaging

Table A: Alpha c	odes for lengths ≥ 1	,000 ft	
A00 = 1,000 B00 = 1,100 C00 = 1,200 D00 = 1,300 E00 = 1,400 F00 = 1,500 G00 = 1,600	H00 = 1,700 J00 = 1,800 K00 = 1,900 L00 = 2,000 M00 = 2,100 N00 = 2,200 P00 = 2,300	Q00 = 2,400 R00 = 2,500 S00 = 2,600 T00 = 2,700 U00 = 2,800 V00 = 2,900 W00= 3,000	X00 = 3,100 Y00 = 3,200 Z00 = 3,300

Evolv® Stubless Terminals with Multifiber Pushlok® Technology





Stubless Terminals for FlexNAP [™] Systems and Multifiber Drop Cable Assemblies	
Part Number	Product Description
DFA2F100D1T3000S0P	Evolv Pushlok 2-Ports, 2 Fibers, Single row of ports, Multifiber Pushlok Stubless Terminal
DFA4F100D1T3000S0P	Evolv Pushlok 4-Ports, 4 Fibers, Single row of ports, Multifiber Pushlok Stubless Terminal
DFA6F100D1T3000S0P	Evolv Pushlok 6-Ports, 6 Fibers, Single row of ports, Multifiber Pushlok Stubless Terminal
DFA8F100D1T3000S0P	Evolv Pushlok 8-Ports, 8 Fibers, Single row of ports, Multifiber Pushlok Stubless Terminal
DFATF100D1T3000S0P	Evolv Pushlok 12-Ports, 12 Fibers, Single row of ports, Multifiber Pushlok Stubless Terminal
DFB3F100D1T3000S0P	Evolv Pushlok 6-Ports, 6 Fibers, Two rows of ports, Multifiber Pushlok Stubless Terminal
DFB4F100D1T3000S0P	Evolv Pushlok 8-Ports, 8 Fibers, Two rows of ports, Multifiber Pushlok Stubless Terminal
DFB6F100D1T3000S0P	Evolv Pushlok 12-Ports, 12 Fibers, Two rows of ports, Multifiber Pushlok Stubless Terminal

Select number of Pushlok® single-fiber connector ports.

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

A8 = 8 portsAT = 12 ports

2 Defines output port fiber count

F1 = Single-fiber per port

3 Defines output port type.

D1 = Single-fiber Pushlok SC APC

4 Defines tail connector type.

T3 = Multifiber Pushlok Input Port

5 Select unit length.

S = Stubless Terminal

6 Select packaging.

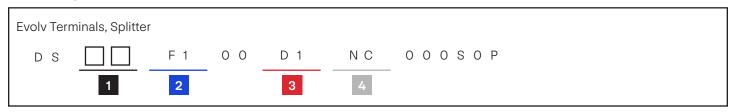
P = Individual packaging B = Bulk packaging

Evolv® Splitter Terminals with Pushlok® Technology



Splitter Terminals				
Part Number	Produc	Product Description		
DSH2F100D1NC000S0P	Evolv®	Evolv® Splitter Terminal with Pushlok® Technology, 2 port, unstubbed, 1x2 splitter		
DSH4F100D1NC000S0P	Evolv	Splitter Terminal with Pushlok Technol	ogy, 4 port, unstubbed, 1x4 splitter	
DSF9F100D1NC000S0P	Evolv	Evolv Splitter Terminal with Pushlok Technology, 8 port, unstubbed, 1x8 splitter, 2 rows of 4 ports		
DSF8F100D1NC000S0P	Evolv	Evolv Splitter Terminal with Pushlok Technology, 8 port, unstubbed, 1x8 splitter		
DSP6F100D1NC000S0P	Evolv	Evolv Splitter Terminal with Pushlok Technology, 16 port, unstubbed, 1x16 splitter, 2 rows of 8 ports		
Splitter Type		Insertion Loss, Max	Insertion Loss, Typical	Reflectance, Typical
1x2 Splitter		4.20 dB	3.60 dB	-55 dB
1x4 Splitter		7.50 dB	6.80 dB	-55 dB
1x8 Splitter		10.90dB	10.00 dB	-55 dB
1x16 Splitter		14.00 dB	13.20 dB	-55 dB

Ordering Information



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 Defines output port type.

D1 = Single-fiber Pushlok SC APC

4 Defines tail connector type.

NC = Not connectorized

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, also known 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.

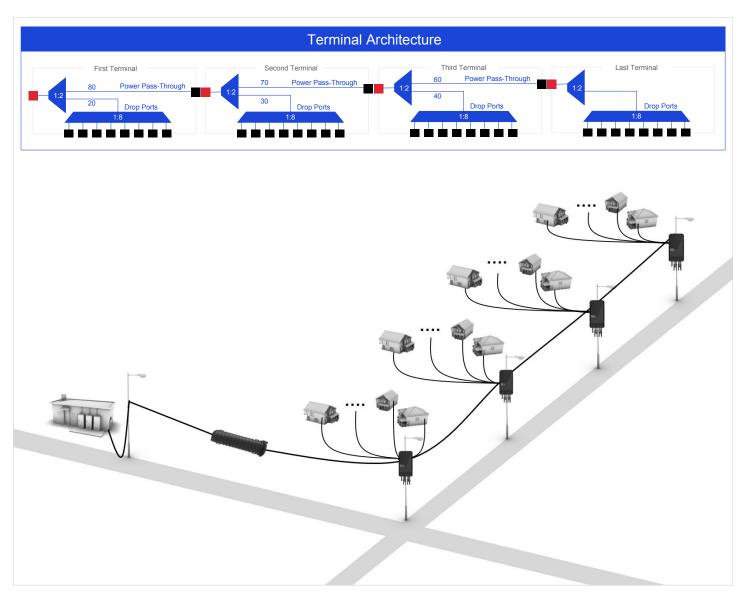
This solution is comprised of an array of power-split ratios to customize each run for optimal signal reach. Tap splits of 90/10, 85/15, 80/20, 70/30, and 60/40 split ratios can be cascaded, or daisy-chained, to accommodate a wide variety of deployment scenarios.

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.

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)

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
Pass-Through Port (00)	N/A	N/A	N/A
Drop Port (00)	4.20 dB	3.60 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
Pass-Through Port (00)	N/A	N/A	N/A
Drop Port (00)	7.50 dB	6.10 dB	-55 dB

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	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
Drop Port (00)	10.90 dB	10.00 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)

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 power split ratio.

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 07 = 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

14 = 60/40 Power Split

10 = 00/00 Power Split

3 Select packaging.

P = 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

CORNING

Evolv® BPEO Closure with Pushlok® Technology



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. 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 Closure 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 1.5, 2 splice trays, 8 SC APC adapters	
BH-12P-D00-03A-PG12	8 Port, Size 1.5, 2 splice trays, 8 SC APC adapters	

Evolv® BPEO ECAM Converter for Pushlok® Technology 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 $ROC^{^{\bowtie}}$ 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

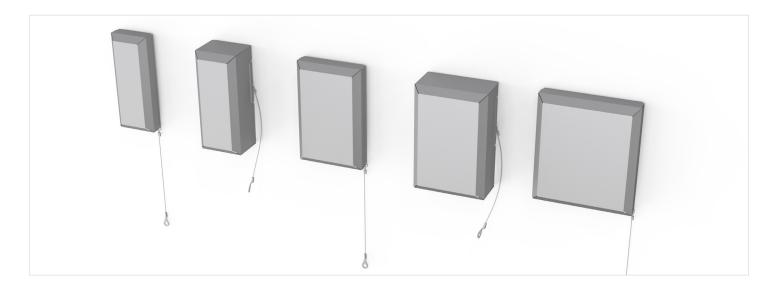
Evolv BPEO ECAM Converter for Pushlok Technology on ROC [™] Drop Cable		
Part Number	Product Description	
KT-PL-ECAM-CONV	Evolv ECAM Converter for Pushlok connector on ROC Drop Cable.	

CORNING

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 [®] 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 characterization. One of the many advantages of hardened connectorized solutions is that the terminal's position is ideal for locating these reflective devices.

The Evolv Reflector with Pushlok Technology is a stubbed connector containing an optical filter that 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, which provides the test equipment with the information it needs for terminal identification. In many applications, each terminal has a reflector in one port when it is initially installed and like any connector, the reflector can be easily removed from the port.

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

CORNING

Evolv® Assemblies with Pushlok® Technology







Multifiber Pushlok Harness Assembly



ADSS ROC™ Drop Cable Assembly



1F ROC Drop, Pushlok to Pigtail



1F Round 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.

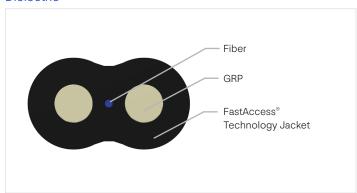
To supplement the new Evolv® Terminal portfolio, the Evolv assemblies will also feature Pushlok technology. A suite of 1- to 12-fiber assemblies are available including FlexNAP™ tether extenders, drop cables, specialty assemblies, and their associated accessories.

Features	Benefits	
Hardened connector technology	Reduced-diameter single-fiber and multifiber 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). 1F & 2F small-cell variants with Pushlok connectors to LC or Uniboot connectors. Multifiber assemblies with SC, LC or MTP® connectors for outdoor and indoor applications.	
Versatile installation environments	Flat and round cable variants for aerial (dielectric), direct-buried (toneable), duct, and MDU applications.	
Backward compatibility	Accessories and converters allow Pushlok assemblies and drops to intermate with existing OptiTap®- or OptiTip®-based solutions.	

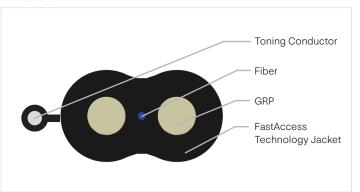
ROC™ Drop Cable Assembly

Outdoor, flat cable design, dielectric or toneable

Dielectric



Toneable



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.

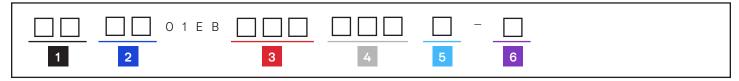
By featuring the ROC drop cable design, issues of slack storage capacity are virtually eliminated. The ROC drop cable minimum bend radius is half the size of legacy drop cable. The outer dimensions of the cable have been reduced by more than 50%. ROC drop cables are more flexible, allowing for easier 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, GR-20

Pushlok [®] Connector Specifications		
Insertion Loss, typical	0.15 dB	
Reflectance, typical	≤ -65 dB	
Outer diameter dimensions	12.3 mm (0.48 in) with dust cap; minimum recommended duct size is 0.75 in	

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



1 Select end one connector.

00 = No Connector

D1 = Pushlok® Connector

D3 = Pushlok Connector, includes OptiTap® converter

2 Select input.

D1 = Pushlok Connector

44 = SC APC Connector, simplex

D3 = Pushlok Connector, includes OptiTap converter

- 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

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 1,501 ft/460 m ships on a reel.

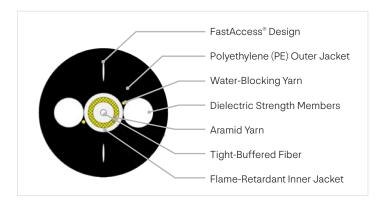
Individual packaging

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

Round ROC™ Drop Cable Assembly

Indoor/Outdoor, round cable design, dielectric





Drop cables are designed for rugged outdoor environments while compact drop cables are designed for challenging indoor bend environments. The Evolv® Round ROC™ drop cable design is gel-free, fully water-blocked, and UV resistant. Designed to meet industry standard requirements for indoor and outdoor drop cables, the product eliminates the need for termination to transition from the outdoor environment to an indoor ONT. This dielectric version eliminates any bonding and grounding requirements and is suitable for aerial, direct-buried, and duct installation.

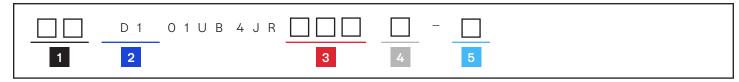
Features	Benefits	
Pushlok® Technology	Leading technology for FTTx installations	
FastAccess Technology	Saves time and reduces complexity	
Jettable	Can be used for pull or jet installs	
Dielectric	Eliminates bonding and grounding requirements	
Round cable with GRP strength members	Optimizes performance in ducts; cable design avoids kinking in duct bends	
Bend-insensitive single-mode fiber	Enables installers to route the subunit around tight corners down to 5 mm (0.2 in) radius inside the home	
Crush resistance	Fiber protection and signal integrity	
Indoor subunit in a rugged outdoor cable	Eliminates the need for termination transition in indoor ONT and allows ease of installation in space-constrained areas	

Standards		
Design and Test Criteria	Telcordia GR-3120, GR-20	
RoHS Free of hazardous substances according to RoHS 2011/65/EU		
NESC Heavy	150 ft	

Pushlok® Connector Specifications		
Insertion Loss, typical	0.15 dB	
Reflectance, typical	≤ -65 dB	
Outer diameter dimensions	12.3 mm (0.48 in) with dust cap; minimum recommended duct size is 0.75 in	

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

General Specifications		
Fiber type	Single-mode	
Fiber Category	Corning® ClearCurve® ZBL	
Environment	Indoor/Outdoor	
Application	FTTx: Duct, Jetting, General Purpose Horizontal, Vertical Riser, Aerial	
Cable Type	ROC™ Dielectric Drop	
Connector Assembly Type	Pigtail to Pushlok®	
Assembly Insertion Loss	0.15 dB	



1 Select end one connector.

00 = No Connector

D1 = Pushlok Connector

D3 = Pushlok Connector, includes OptiTap converter

2 Defines input.

D1 = Pushlok Connector

D3 = Pushlok Connector, includes OptiTap converter

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

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 1,500 ft/455 m. Greater than 1,501 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.

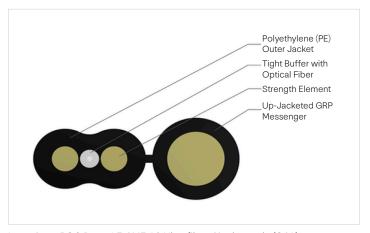
Table A: Alpha codes for lengths ≥ 1,000 ft			
A00 = 1,000 B00 = 1,100	C00 = 1,200 D00 = 1,300 E00 = 1,400	F00 = 1,500 G00 = 1,600 H00 = 1,700	J00 = 1,800 K00 = 1,900 L00 = 2,000

Long-Span ROC™ Drop All-Dielectric Self-Supporting (ADSS) Cable Assembly

Outdoor, flat cable design, dielectric only







Long-Span ROC Drop, 1 F, SMF-28 Ultra fiber, Single-mode (OS2)

Long-Span ROC Torop All-Dielectric Self-Supporting (ADSS) cable assemblies provide preterminated drop capabilities for span distances not achievable with traditional cable construction. The long-length ADSS version allows pole-to-pole span lengths ranging from 400 ft to 650 ft under NESC wind loading conditions. There is no support or messenger wire required, allowing installation to be achieved in a single pass, dramatically reducing installation time and cost while delivering high-speed internet to rural areas. The cables are RDUP (RUS) Listed and offer exceptional crush resistance.

The Evolv® Long-Span ROC drop cable design is gel-free, fully water-blocked, and UV resistant. Its robust design and added GRP is designed to meet industry standard requirements for outdoor drop cables. This dielectric assembly eliminates any bonding or grounding requirements and is suitable for aerial, direct-buried, and duct installation.

Features Benefits	
Pushlok® Technology	Leading technology for FTTx installations
Dielectric	Eliminates bonding and grounding requirements
Larger GRP strength members	Enables NESC Heavy 400-ft pole spans
Crush resistance (RDUP/RUS Listed)	Fiber protection and signal integrity
Self-supporting	No support or messenger wire required

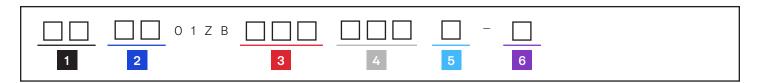
Standards	
Design and Test Criteria	Telcordia GR-3120, GR-20
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
*NESC Loading	400 ft to 650 ft

^{*}Consult NESC guidelines for ground clearance requirements.

Pushlok® Connector Specificat	tions
Insertion Loss, typical	0.15 dB
Insertion Loss, maximum	0.40 dB
Reflectance, typical	≤ -65 dB
Outer diameter dimensions	12.3 mm (0.48 in) with dust cap; minimum recommended duct size is 0.75 in

Cable Assembly Specifications	ble Assembly Specifications		
Environment	Outdoor		
Application	FTTx		
Cable Type	Long-Span ROC™ Dielectric Cable		
Fiber Category	Ultra fiber		
Fiber Count	1		
Connector Assembly Type	Pushlok-Pushlok; Pushlok-SC APC, Pushlok-Pigtail, and SC APC-Pigtail		
Assembly Insertion Loss	Pushlok-Pushlok and Pushlok-SC APC, and SC APC-Pigtail: 0.5 dB Pushlok-Pigtail: 0.4 dB		

Accessories	
Recommended Clamps (Both have been tested with favorable results)	AB2106 (Can be ordered through Corning or directly through Allied Bolt) S1 0978 (Can be ordered through MSI)
Jacket Removal RDST Tool	RDST-000
Lobe Removal Tool	ROC-LS-RT



1 Select end one connector.

00 = No Connector

D1 = Pushlok® Connector

D3 = Pushlok Connector, includes OptiTap® converter

2 Select end two connector.

D1 = Pushlok Connector

D3 = Pushlok Connector, includes OptiTap converter

44 = SC APC Connector, simplex

3 Select input.

L9R = Long-Span ROC™ assembly

LFR = Long-Span ROC assembly with pulling grip

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

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.

Table A: Alpha co	odes for lengths ≥ 1	I,000 ft	
A00 = 1,000 B00 = 1,100 C00 = 1,200	D00 = 1,300 E00 = 1,400 F00 = 1,500	G00 = 1,600 H00 = 1,700 J00 = 1,800	K00 = 1,900 L00 = 2,000

Evolv® FlexNAP™ System with Multifiber Tethers



Pushlok Multifiber Assembly (Male to Male)

Pushlok Multifiber Extender

Pushlok Multifiber Harness Assembly (Female Pushlok to LC UPC connectors)

Pushlok® Multifiber Assembly

Pushlok® Multifiber Assemblies can be configured as jumpers with either male or female multifiber Pushlok connectors on either end or as pigtailed assemblies depending on the application. As an example, male to male Pushlok assemblies can be leveraged when daisy-chaining terminals together.

Pushlok Multifiber Extender

The Pushlok Multifiber Extender is an outdoor or indoor/outdoor cable factory terminated with a female Pushlok Multifiber Connector on one end and a male Pushlok Multifiber Connector on the other end. Each connector is protected from dust and water ingress by either a dust plug (female) or dust cap (male) with integrated pulling eye.

Pushlok Multifiber Harness Assembly

The Pushlok Multifiber Harness Assembly is an outdoor or indoor/outdoor cable factory terminated with a Pushlok Multifiber connector on one end and a furcation and breakout to LC or SC single-fiber connectors or an MTP® multifiber connector on the other end. Single fiber connectors are terminated on 24-in long, 2.0-mm jacketed furcation legs. The MTP connector is terminated on a 24-in long, 2.9-mm round furcation leg.

Connector Specifications

Multifiber Pushlok® Connector	s
Operation	-40°C to 70°C (-40°F to 158°F)
Length	SST-Drop™ Cable 4.70 in (120 mm) Multifiber Pushlok in-line connector, tip to end of boot; 5.53 in (141 mm) with dust plug installed, Round Cable 7.00 in (178 mm) Multifiber Pushlok in-line connector, tip to end of boot; 7.82 in (199 mm) with dust plug installed, SST Cable 7.00 in (178 mm) Multifiber Pushlok connector, tip to end of boot; 7.74 in (197 mm) with dust cap installed, Round Cable 5.56 in (142 mm) Multifiber Pushlok connector, tip to end of boot; 6.27 in (160 mm) with dust cap
Maximum Outer Diameter	Multifiber Pushlok connector 0.48 in: minimum recommended duct size is 0.75 in
Maximum Outer Diameter Multifiber Pushlok (Male)	Multifiber Pushlok connector 12.3 mm (0.48 in); minimum reccommended duct size is 0.75 in
Maximum Outer Diameter Multifiber In-Line (Female)	Multifiber Pushlok connector 17.4 mm (0.69 in); minimum reccommended duct size is 1.0 in
Qualification	EIA/TIA 568-B.3,GR-3152, IP69K and IP68
Reflectance	Single-mode OS2: ≤ -65 dB
Tensile Strength	50 lb when factory installed on SST-Drop or FREEDM® Flat-Drop Cable and 25 lb when installed on Evolv® Multifiber Round Cable
Insertion Loss, Maximum	0.35 dB maximum per fiber
Insertion Loss, Typical	0.15 dB typical per fiber

^{*}Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

LC and SC Compatible Connectors		
Operation	-40°C to 70°C (-40°F to 158°F)	
Intermateability	TIA/EIA-568-B.3, FOCIS - TIA/EIA-604-10 (LC), TIA/EIA-604-3 (SC)	
Qualification	EIA/TIA 568-B.3	
Reflectance	Single-mode OS2: ≤ -55 dB	
Insertion Loss, Maximum	0.5 dB maximum per fiber, 0.2 dB typical	
Tensile Strength	≤ 0.2 dB change, 15 lb FOTP-6	

Cable Specifications

SST-Drop [™] Outdoor Cable	
Installation	-22°F to 158°F (-30°C to 70°C)
Operation	-40°F to 158°F (-40°C to 70°C)
Qualification	GR-20, EIA/TIA 568-B.3, RDUP listed
Weight	20 lbs/1,000 ft (30 kg/km)
Outside Diameter	0.32 in (8.1 mm)
Tensile Strength	300 lbs (1350N)
Compressive Loading	125 lb/in (220N/cm)

Note: Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

FREEDM® LSZH™ Flat-Drop Inde	EDM® LSZH™ Flat-Drop Indoor/Outdoor Cable		
Installation	-22°F to 158°F (-30°C to 70°C)		
Operation	-40°F to 158°F (-40°C to 70°C)		
Qualification	GR-20, EIA/TIA 568-B.3, RDUP listed		
Weight	20 lbs/1,000 ft (30 kg/km)		
Outside Diameter	0.32 in (8.1 mm)		
Tensile Strength	300 lbs (1350N)		
Compressive Loading	125 lb/in (220N/cm)		

Note: Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

Multifiber Round Cable	
Installation	23°F to 122°F (-5°C to 50°C)
Operation	-13°F to 140°F (-25°C to 60°C)
Qualification	GR-20, EIA/TIA 568-B.3, RDUP listed
Weight	12 lbs/1,000 ft (18 kg/km)
Outside Diameter	0.18 in (4.6 mm)
Tensile Strength	300 lbs (1350N)
Compressive Loading	125 lb/in (220N/cm)

Note: Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

		Z				Р
1 2	3	4	5	6	7	8

1 Select connector type 1.

00 = Stub end

T1 = Multifiber Pushlok® Connector (female)

T2 = Multifiber Pushlok Connector (male)

2 Select connector type 2.

T1 = Multifiber Pushlok

Connector (female)

T2 = Multifiber Pushlok Connector (male)

M1 = OptiTip®, non-pinned

M2 = OptiTip, pinned

Select cable type.

02 = LC UPC

44 = SC APC

58 = SC UPC $90 = MTP^{\circ}$

02 = 2 fibers

04 = 4 fibers

06 = 6 fibers

08 = 8 fibers

12 = 12 fibers

4 Defines fiber type.

Z = Single-mode

5 Select cable type.

B4D1E = SST-Drop™ Dielectric Cable

B1D1E = SST-Drop Toneable Cable (single-mode only)

BZD1X = FREEDM® LSZH®

Flat Drop Cable

B4D3E = Evolv® Multifiber Round Cable†

6 Select length.

003 = 3 ft*

050 = 50 ft

100 = 100 ft

A00 = 1,000 ft

7 Select unit of measure.

F = Feet

M = Meters

8 Defines packaging.

P = Individual packaging

Notes:

For lengths greater than 100 ft (30 m), contact Customer Care.

 $\label{eq:minimum} \begin{tabular}{ll} \hline Minimum length is 10 ft (3 m). All other lengths must be ordered in 10- or 25-ft increments of 5 ft. \\ \hline \end{tabular}$

 $^{*}3$ ft option only available for maintenance extender combining T1/T2 connector code with M1/M2 connector code.

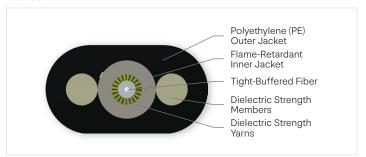
 \dagger M1 and M2 connector types are not available with the B4D3E option for Evolv Multifiber Round Cable.

2- and 4-Fiber SST-Drop™ Cable Assembly

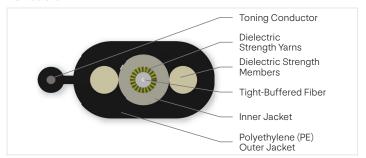
Standard Outdoor or Indoor/Outdoor, flat cable design, dielectric or toneable

SST-Drop Indoor/Outdoor Cable

Dielectric

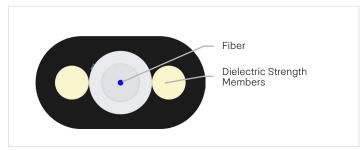


Toneable

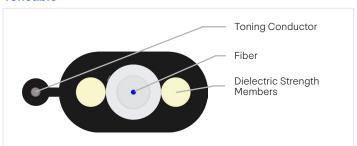


SST-Drop Outdoor Cable

Dielectric



Toneable

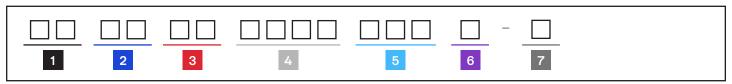


As an industry leader in optical connectivity products, Corning designs and manufactures the SST-Drop™ cable assembly with factory-terminated, environmentally sealed and hardened connectors to reduce the cost and the time of drop cable deployment in optical access networks. The Pushlok® drop cable assembly 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 and 4 multifiber drops including pigtail and in-line 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	≤ -65 dB
Outer diameter dimensions	12.3 mm (0.48 in) with dust cap; minimum recommended duct size is 0.75 in



Select end one connector.

D1 = Pushlok® Connector D3 = Pushlok Connector, includes OptiTap converter

2 Select input.

44 = SC APC connector

48 = In-line OptiTap® (SCA) connector

D1 = Pushlok connector

D3 = Pushlok Connector, includes OptiTap converter

3 Select fiber count.

02 = 2 fibers 04 = 4 fibers

4 Select cable type.

JB4DD = SST-Drop™, dielectric, LBL fiber JBP4F = SST-Drop, dielectric, LBL fiber, with pulling grip JBPDD = SST-Drop, toneable, LBL fiber, with pulling grip

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

Lengths

Minimum: 10 m / 25 ft

Meters lengths

5-m increments up to 600 m

Foot lengths

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 1,501 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 B00 = 1,100	C00 = 1,200 D00 = 1,300	F00 = 1,500 G00 = 1,600	J00 = 1,800 K00 = 1,900
, , , , , , , , , , , , , , , , , , , ,	D00 = 1,300 E00 = 1,400	G00 = 1,600 H00 = 1,700	

2F Cable Assembly with Pushlok Technology



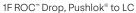
4F Cable Assembly with Pushlok Technology



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

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







1F SST-Drop™, Pushlok to Uniboot



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



2F SST-Drop, Outdoor, Pushlok to Uniboot

Corning's 1F small cell assemblies are available with Pushlok $^{\circ}$ to LC simplex on the ROC $^{\circ}$ Drop cable and LC Uniboot on the SST-Drop $^{\circ}$. The 2F 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	1F small cell variants with a Pushlok connector to LC or Uniboot. 2F 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
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

Small Cell Drop Cable Assembly Specifications	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU



1 Defines end one connector.

D1 = Single-Fiber Pushlok® Connector

2 Select input.

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

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 Maximum: 600 m / 2,000 ft 4 Select cable assembly unit of length.

F = Feet M = Meters

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 1,500 ft/455 m. Greater than 1,501 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.

CORNING

Evolv® Assembly Accessories

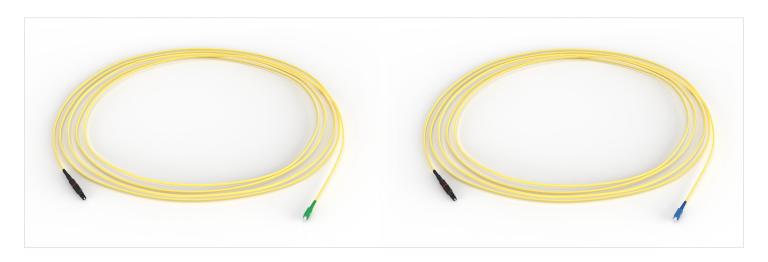


Pushlok® Drop Cable Assembly Accessory Information	
Evolv® SC Converter with Pushlok® Technology	
Part Number	KT-PL-SHROUD-SC
Description	SC APC shroud for converting Pushlok drop connectors to an SC form factor
Minimum Order Quantity (MOQ)	10



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
Corning Optical Communications	Evalv [®] Salution with Dushlak [®] Tachnology Specification Shoot CDD-1/82 AEN Daga 38

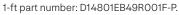
Test Jumpers with Pushlok® Technology



Accessory Information		
SC APC Test Jumper		
Part Number	D14401E31AJ003M	
Description	Evolv® Test Jumper with Pushlok® Technology, 1F Pushlok to SC APC simplex, 3 m	
SC APC Test Jumper		
Part Number	D15801E31AJ003M	
Description	Evolv Test Jumper with Pushlok Technology, 1F Pushlok to SC UPC simplex, 3 m	

Maintenance Extenders In-Line with Pushlok Technology







7-ft part number: D14801EB49R007F-P.

Accessory Information			
Evolv Maintenance Extender In-Line	Evolv Maintenance Extender In-Line		
Part Number – 1-ft extender	D14801EB49R001F-P, available in both individual and bulk packaging		
Part Number – 7-ft extender	D14801EB49R007F-P, available in both individual and bulk packaging		
Description	Evolv Maintenance Extenders In-Line with Pushlok Technology, 1F Pushlok to 1F in-line, dielectric, 1-ft and 7-ft options, 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.		

Port Cleaners





Single-Fiber 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 post-mate 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	

Multifiber Cleaner with Pushlok Technology		
Part Number	CLEANER-PUSHLOK-MF	
Description	The Evolv Port Cleaner with Pushlok Technology is compatible with multi-fiber Pushlok connectors and Evolv terminals and multiports. Multi-fiber cleaner accessories are proven effective for removing the following from connector end faces: skin oil, hand lotion, Arizona road dust, pre- and post-mate 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	

1-Fiber Pushlok® Adapter



Accessory Information	
Part Number	Adapter-Pushlok-SF
Description	This adapter allows users to connect 2 Pushlok drop cable 1F assemblies together. This may be used in instances where a drop cable assembly is too short to reach a final destination and needs to be extended.

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