CORNING

Evolv™ Drops with Pushlok™ Technology

1 F ROC™ Drop, Pushlok™ to Pushlok

1 F ROC Drop, Pushlok to SC APC

1 F ROC Drop, Pushlok to Pigtail

1 F Round ROC Drop, Pushlok to Pigtail

Pushlok™ hardened connector technology is the key component enabling smaller terminals and drops for FTTx networks 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 1 F ROC™ Drop cables, 1 F Round ROC Drop cables, 2 F SST-Drop™ cables, and 4 F SST-Drop cables. SC APC converters, OptiTap® converters, test jumpers, and maintenance extenders are available accessories that support the drop portfolio.

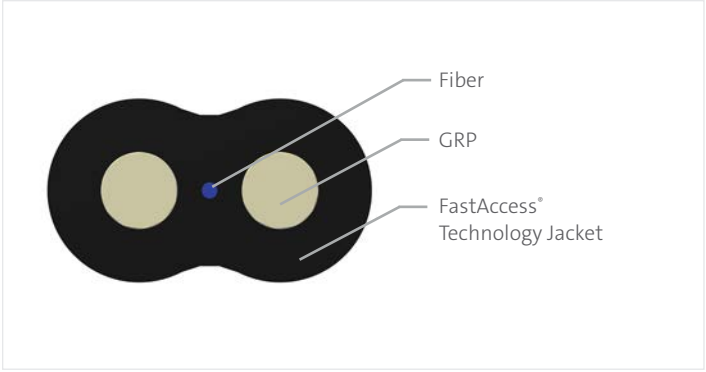
Features	Benefits
Hardened connector technology	Reduced-diameter Pushlok connector.
Flexible connector offerings	Dual-ended or pigtailed versions to accommodate any ONT interface. Hybrid assemblies with hardened connector (terminal) to SC APC (ONT). 1 F & 2 F small-cell variants with Pushlok connectors to LC or Uniboot connectors.
Versatile installation environments	Cable variants for aerial (dielectric), 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

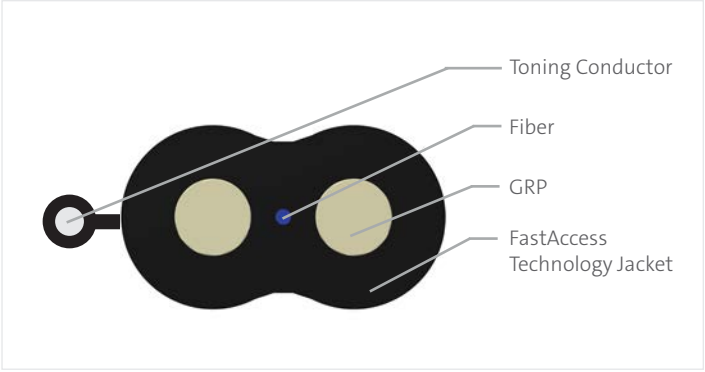
ROC™ Drop Cable Assembly

Outdoor, flat cable design, dielectric or toneable

Dielectric



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.

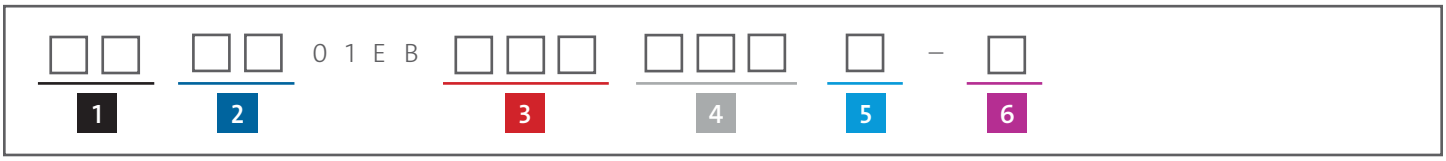
Features	Benefits
Hardened connector technology	OptiTap® connector, industry standard for existing FTTx networks, or reduced-diameter Pushlok™ connector.
Reduced optimized cable cross-section	Smaller profile and bend radius. Flexibility allows for increased slack-storage capacity in existing optical 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

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



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 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.

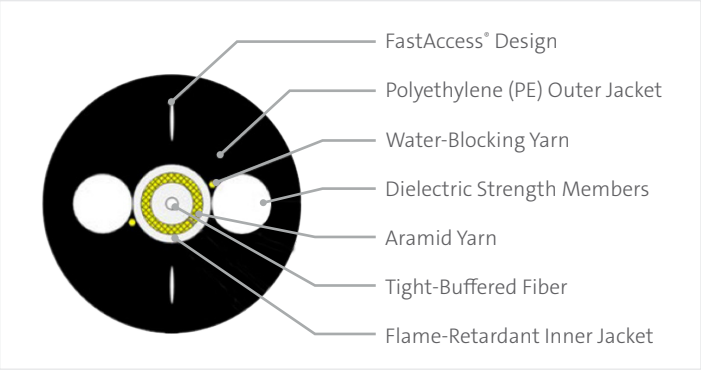
Table A: Alpha codes for lengths ≥ 1,000 ft

A00 = 1,000	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

CORNING

Evolv® Round ROC™ Drop Cable Assemblies with Pushlok™ Technology

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

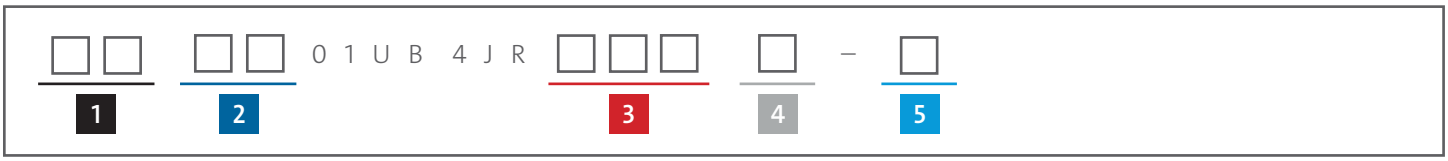
Standards	
Design and Test Criteria	Telcordia GR-3120, GR-20
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
NESC Heavy	150 ft

Pushlok™ Connector Specifications	
Insertion Loss, typical	0.15 dB
Reflectance, typical	≤ -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

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

Ordering Information



1 Select end one connector.

00 = No Connector
D1 = Pushlok™ Connector

2 Select input.

D1 = Pushlok Connector
44 = SC APC Connector, simplex

3 Select cable 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.

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M = Meters

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

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

CORNING

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

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

1 F ROC™ Drop, Pushlok™ to LC

1 F SST-Drop™, Pushlok to Uniboot

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

2 F SST-Drop, Outdoor, Pushlok to Uniboot

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

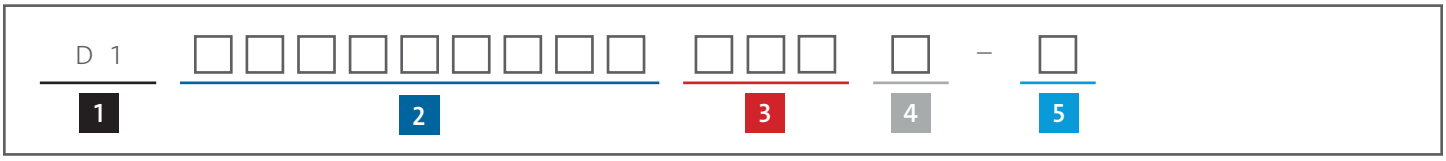
Features	Benefits
Pushlok Technology	Reduced-diameter connector, leading technology for FTTx installations
Reduced optimized cable cross-section	Smaller profile and bend radius, flexibility allows for increased slack storage capacity in existing optical network terminals (ONTs), pedestals, and handholes
Robust design	Designed for rapid connection to external flush-mounted bulkhead adapters on terminals or closures
Flexible Connector Offerings	1 F small cell variants with a Pushlok connector to LC or Uniboot. 2 F small cell variants with Pushlok to LC Duplex or LC Uniboot.
Versatile installation environments	Dielectric variants available

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

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

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

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



1 Defines end one connector.

D1 = Single-Fiber Pushlok™ Connector

2 Select input.

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

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.*

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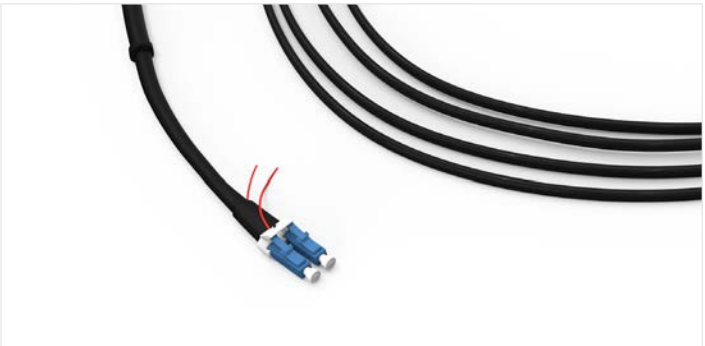
	E00 = 1,400	H00 = 1,700	L00 = 2,000

CORNING

Evolv® Universal Small Cell Cable Assembly

Outdoor, dielectric, round cable design

Evolv® Universal Small Cell Assembly



Assembly offers single- or dual-fiber connectors

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

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

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

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

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

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

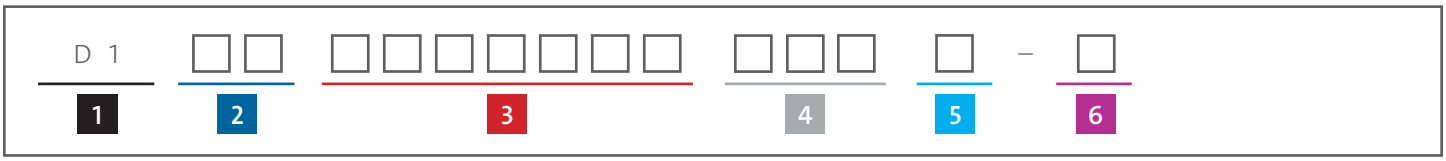
General Specifications	
Fiber Type	LBL Fiber
Environment	Outdoor
Application	FTTx
Cable Type	4.6 mm Multifiber Round Cable
Connector Assembly Type	Pushlok™-Pigtail

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

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

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

Universal Small Cell Cable Assembly Ordering Information



1 Defines connector 1.

D1 = Pushlok™ Connector

2 Select connector 2.

02 = LC Simplex
04 = LC Duplex

3 Select input

01JBDT3 = 1 F, LBL, Universal Drop, round cable, dielectric
01JBPT3 = 1 F, LBL, Universal Drop, round cable, dielectric, with Pulling Grip
02JB4D9 = 2 F, LBL, Universal Drop, round cable, dielectric
02JBP4D = 2 F, LBL, Universal Drop, round cable, dielectric, with Pulling Grip

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
Maximum: 600 m / 2,000 ft

5 Select cable assembly unit of length.

F = Feet
M = Meters

6 Defines packaging.*

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

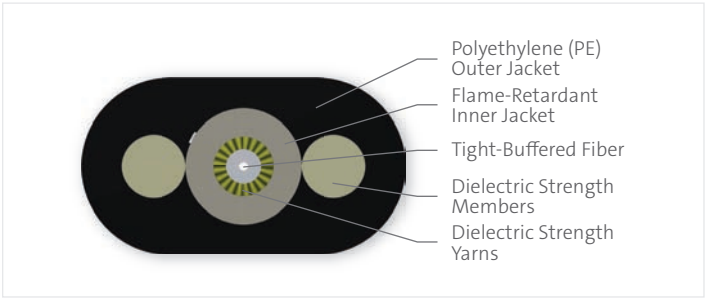
CORNING

SST-Drop™ Cable Assembly

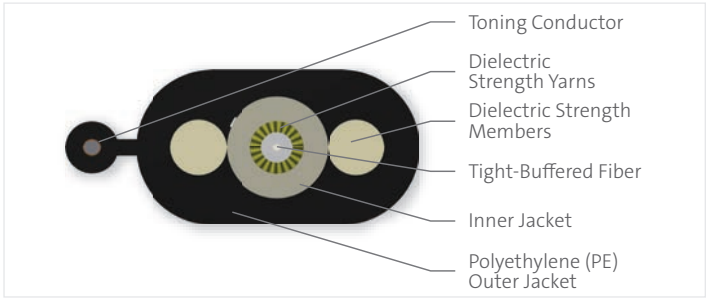
Standard Outdoor or Indoor/Outdoor, flat cable design, dielectric or toneable

SST-Drop Indoor/Outdoor Cable

Dielectric

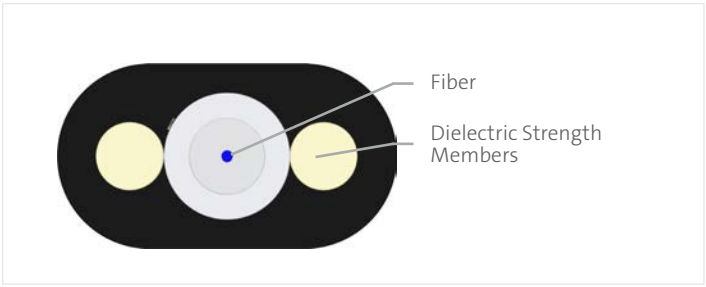


Toneable

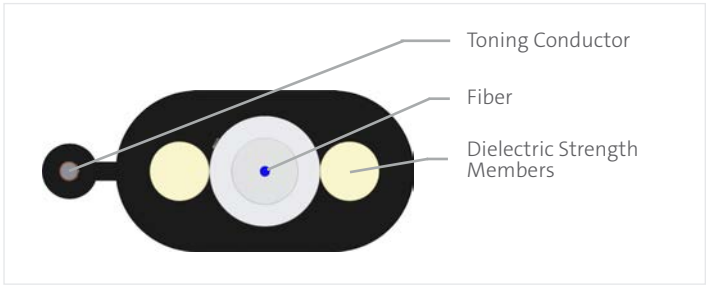


SST-Drop Outdoor Cable

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

□□ □□ □□ □□□□ □□□ □ – □

1 2 3 4 5 6 7

1 Select end one connector.

00 = No Connector
D1 = Pushlok™ Connector

2 Select input.

44 = SC APC connector
48 = In-line OptiTap® (SCA) connector
D1 = Pushlok connector

3 Select fiber count.

02 = 2 fibers
04 = 4 fibers

4 Select cable type.

JB4FD = SST-Drop™, dielectric, LBL fiber
JBP4F=SST-Drop, dielectric, 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: 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.

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M = Meters

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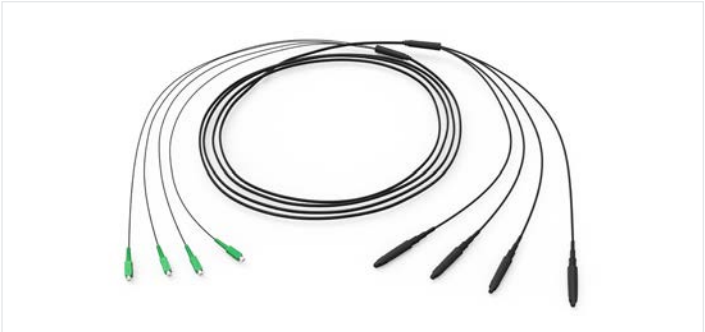
	E00 = 1,400	H00 = 1,700	L00 = 2,000

2 F Cable Assembly with Pushlok Technology

4 F Cable Assembly with Pushlok Technology

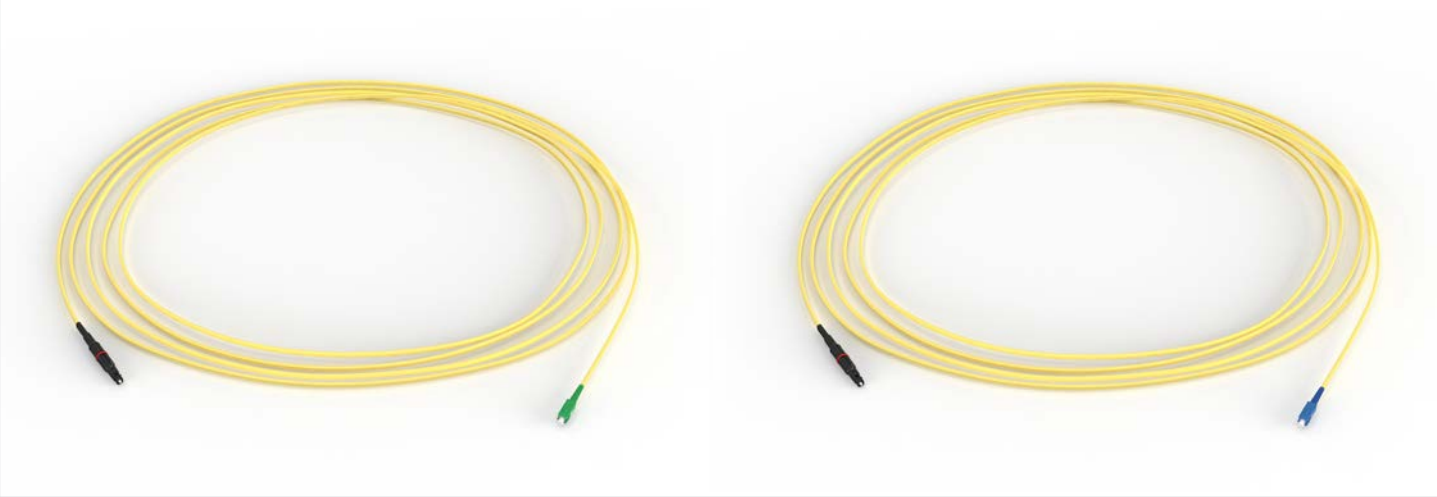


Evolv® Drop Accessories

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

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

Evolv® Test Jumpers with Pushlok™ Technology



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

Evolv Maintenance Extenders In-Line with Pushlok Technology

1-ft part number: D14801EB49R001F-P.

7-ft part number: D14801EB49R007F-P.

Accessory Information	
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, 1 F Pushlok to 1 F 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.

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 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

Evolv® 1-Fiber Pushlok™ Connection Kit

Accessory Information	
Evolv® 1 F Pushlok™ Connection Kit	
Part Number	OSLC-Pushlok-Adapter
Description	The 1 F to 1 F Pushlok Adapter contains an OSLC mini-splice repair closure, 2 SC APC converters (KT-PL-SHROUD-SC), and 1 SC APC to SC APC adapter. This allows users to connect 2 Pushlok drop cable 1 F 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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