

Application

Building upon the restoration promise of FieldShield Pushable Fiber, FieldShield D-ROP is a pre-connectorized drop cable delivered to market pre-placed in a 7 mm microduct. The FieldShield FlexConnector snaps into the FieldShield FlexPort, providing an air-tight, water-tight connection between the YOURx-TAP and the YOURx-Terminal.

Installed as a single-pass deployment, FieldShield D-ROP provides ease of restoration. In the event of a future fiber cut, a field technician easily identifies the cut area, and utilizes a simple coupler and a FieldShield Fiber Assembly to restore service.

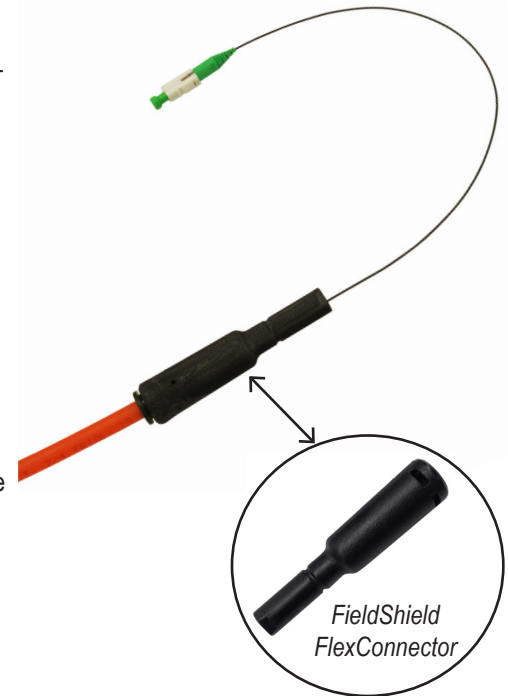
Description

D-ROP cable presents the same footprint as a flat drop cable with the added advantage of being restorable. As with all FieldShield ducted solutions, fiber cuts are located and microduct is repaired with repair kit. Blunt fiber is then pulled and terminated with a splice-on connector, minimizing costs and time to restore the service outage. The pre-installed FlexConnector is plugged directly into the FlexPort opening of the YOURx-Terminal or YOURx-TAP, providing a completely protected pathway from the access point directly to the premise, business or antenna with the option for restoration after accidental fiber cut.

D-ROP does not have the slack storage challenges that a flat drop presents because the duct slack can be peeled or removed leaving only the fiber assembly.

FlexConnector Options

- Factory Installed: the connector is shipped permanently installed on the pre-connectorized cable.
- Field Installable: the connector is shipped separately to be installed in the field. This is an ideal solution for eliminating excess slack storage when standard cable lengths are used for custom drop distances. The FlexConnector can be field installed on the pre-connectorized cable (full plug-and-play) or blunt cable followed by a splice-on connector.



Features and Benefits

Integrity

- Duct is compliant to Telcordia GR-3155
- Available with singlemode fiber

Protection

- FieldShield FlexConnector provides an air-tight, water-tight connection
- FieldShield Direct Bury Microduct has high tensile strength and crush resistance that withstands all types of implementations including open trenching, vibratory plowing and directional boring
- Duct is constructed from HDPE to prevent degradation

Access

- Available pre-terminated with SC and LC or bulk for field installation
- Option for splice-on connector (utilizing fiber matrix 850 μm)
- Includes bend-insensitive fiber
- The FlexConnector installed onto microduct pushes directly into a YOURx-Terminal or YOURx-TAP
- Integrated tone wire simplifies ground locating in direct bury applications
- Industry standard orange provides high visibility for direct bury applications
- Available for aerial applications

Investment

- Available in bulk or pre-connectorized for a labor-lite, plug-and-play installation
- FieldShield FlexConnector available in 4 packs for field installations



Field Installable FlexConnector



D-ROP Opener



Bulk D-ROP Spool



D-ROP Deadend

Technical Specifications

FieldShield D-ROP	
Outside Diameter	0.276" (7.01 mm)
Inside Diameter	0.146" (3.71 mm)
Material	HDPE
Connector Style	SC and LC
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Stringing Tension	To local regulations. Recommended not to exceed 0.2 KN
Min. Bend Radius	4.72" (119.89 mm)
Rated Cable Load	270 lbf (1.2 KN)
Duct Color	Orange (Direct Bury with tone) or Black (Aerial)
Tone Wire	Copper coated steel wire (Direct Bury only)
Markings	Part number, lot number, footage markers every foot
Breakout Length	12 inches (304.80 mm)

Accessories

- Field Installable FlexConnector (FSD-FIFC-4PAK)
 - Installer cuts duct to desired length in the field using a rotary cutter, then snaps on the FlexConnector. After fusing on the standard connector and passing through the FlexPort, the outer housing is attached and connected to the adapter.
- D-ROP Opener: splitter tool with 7 mm OD (FS-DUCT-OPENER)
- D-ROP Deadend (FS-DEADEND-LG7)

Configured Part Numbers

Factory Installed Connectors

F S D - [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] XXXXF

<p>1 Select Duct Construction A = 7 mm Aerial C = 7 mm Toneable</p> <p>2 Select Duct Color 2 = Orange 8 = Black</p> <p>3 Select Fiber Type 1 = Singlemode, 800 µm</p> <p>4 Select Fiber Count 001 = 1</p>	<p>5 Select Connector #1 A = SC/UPC E = LC/UPC C = SC/APC G = LC/APC</p> <p>6 Select Breakout Q = xTAP</p> <p>7 Select Upjacketing Z = N/A</p> <p>8 Select Connector #2 A = SC/UPC E = LC/UPC C = SC/APC G = LC/APC</p>	<p>9 Select Breakout Q = xTAP Z = N/A - Pigtail</p> <p>10 Select Upjacketing Z = N/A</p> <p>Select Length (XXXXF)</p> <table border="0"> <tbody> <tr> <td>0050 = 50 ft. (15.24 mm)</td> <td>0200 = 200 ft. (60.96 mm)</td> </tr> <tr> <td>0075 = 75 ft. (22.86 mm)</td> <td>0225 = 225 ft. (68.58 mm)</td> </tr> <tr> <td>0100 = 100 ft. (30.48 mm)</td> <td>0250 = 250 ft. (76.20 mm)</td> </tr> <tr> <td>0125 = 125 ft. (38.10 mm)</td> <td>0275 = 275 ft. (83.82 mm)</td> </tr> <tr> <td>0150 = 150 ft. (45.72 mm)</td> <td>0300 = 300 ft. (91.44 mm)</td> </tr> <tr> <td>0175 = 175 ft. (53.34 mm)</td> <td></td> </tr> </tbody> </table>	0050 = 50 ft. (15.24 mm)	0200 = 200 ft. (60.96 mm)	0075 = 75 ft. (22.86 mm)	0225 = 225 ft. (68.58 mm)	0100 = 100 ft. (30.48 mm)	0250 = 250 ft. (76.20 mm)	0125 = 125 ft. (38.10 mm)	0275 = 275 ft. (83.82 mm)	0150 = 150 ft. (45.72 mm)	0300 = 300 ft. (91.44 mm)	0175 = 175 ft. (53.34 mm)	
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Pre-Configured Part Numbers

Field-Installed Connectors

Part Number	Description
FS-MED-001-T-207-3280F	Bulk D-ROP, direct bury, orange, 7 mm O.D., 3280 foot (999.75 m) spool
FS-MEA-001-NT-807-3280F	Bulk D-ROP, aerial, black, 7 mm O.D., 3280 foot (999.75 m) spool
FSD-FIFC-4PAK	Field installable FlexConnector in 4 pack
FSD-FIFC-SCA-4PAK	Field installable FlexConnector with splice-on SC/APC connectors, 4 pack

Application

FieldShield FLATdrop is a drop cable solution for the access network such as FTTH and FTTB. FLATdrop takes industry standard flat drop cable that is factory pre-connectorized and incorporates a 10 mm FieldShield FlexConnector, providing simple plug-and-play connectivity between the YOURx-Terminal and YOURx-TAP.

Description

FieldShield FLATdrop is the first pre-connectorized flat drop style cable to provide hardened environmental performance on a flat drop style cable without the added cost or dependency on the market's existing bulky connector. Connectivity to access terminals is achieved through the innovative FlexConnector, which snaps into the YOURx-Terminal and YOURx-TAP, providing an air-tight and water-tight connection.

FlexConnector Options

- **Factory Installed:** the connector is shipped permanently installed on the pre-connectorized cable.
- **Field Installable:** the connector is shipped separately to be installed in the field. This is an ideal solution for eliminating excess slack storage when standard cable lengths are used for custom drop distances. The FlexConnector can be field installed on the pre-connectorized cable (full plug-and-play) or blunt cable followed by a splice-on connector.



Features and Benefits

Integrity

- Available in singlemode
- Supports most industry standard flat drop cable
- FlexConnector is designed and tested to GR-3120 using FieldShield FLATdrop

Protection

- FlexConnector provides an air-tight, water-tight connection

Access

- Flat drop cable construction allows for installation in direct bury and aerial applications
- Pre-terminated with an SC, LC or MPO connector or with pigtail for customer choice application
- Toneable cables allow for traceability

Investment

- Leveraging the low cost of a traditional optical flat drop cable with option for plug-and-play field terminations
- Quick and easy deployment allows capital investment to be aligned to customer take rates
- FieldShield FlexConnector available in 4 packs for field installations

Technical Specifications

FieldShield FLATdrop	
Core Size and Type	Singlemode
Inner Cable Jacket OD	3.0 mm Ruggedized
Cable Types	Flat Drop Cable (Dielectric/Toneable)
Connector Type	SC, LC, MPO
Breakout Length	12 inches (304.80 mm)
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Color	Black
Markings	Part number, lot number, footage markers every two feet (609.60 mm)

Accessories

- Field Installable FlexConnector (FSH-FIFC-4PAK)
 - Once the cable has been prepped, the flat cable is sandwiched between the two retainer clips, pinched into place and then the FlexConnector is pushed and snapped together with the retaining clips



Field Installable FlexConnector

Configured Part Numbers

SC and LC Factory Installed Connector

F S H - 1 - 0 0 1 - XXXXF

1
2
3
4
5
6
7

1 Select Jacket Construction

T = OSP Non-toneable (Non-rated)
 U = OSP Toneable (Non-rated)
 3 = Peelable FLATdrop Non-Toneable (Non-rated)
 4 = Peelable FLATdrop Non-Toneable (Non-rated)

2 Select Connector #1

A = SC/UPC D = SC/APC Pushable
 B = SC/UPC Pushable V = HFOC SC/UPC
 C = SC/APC W = HFOC SC/APC

3 Select Breakout

K = 14" for FlexPort
 Q = YOURx (Factory Installed)
 Z = N/A for HFOC or Pigtail
 1 = YOURx (Ship-along)

4 Select Upjacketing

A = 900 µm
 D = 3mm Ruggedized
 K = 3mm Subunit
 Z = N/A

5 Select Connector #2

A = SC/UPC G = LC/APC
 B = SC/UPC Pushable V = HFOC SC/UPC
 C = SC/APC W = HFOC SC/APC
 D = SC/APC Pushable Z = Pigtail
 E = LC/UPC

6 Select Break

B = 1 Meter
 C = ½ Meter
 K = 14" for FlexPort

7 Select Upjacket

A = 900 µm
 D = 3mm Ruggedize
 K = 3mm Subunit
 Z = N/A

XXXM or XXXF

XXXM = Length in m
 XXXF = Length in feet

MPO Factory Installed Connector

H 1 - Q D - XXXXF or XXXXF

1
2
3
4
5
6

1 Select Jacket Construction

E = OSP Non-Toneable
 M = OSP Toneable

2 Select Fiber Count

006 = 6
 012 = 12

3 Select Connector #1

N = Pushable MPO Male
 P = Pushable MPO Female

4 Select Connector #2

N = Pushable MPO Male
 P = Pushable MPO Female
 Z = Pigtail

5 Select Breakout #2

Q = YOURx
 Z = N/A

6 Select Upjacketing

D = YOURx
 Z = N/A

XXXM or XXXF

XXXM = Length in meters
 XXXF = Length in feet

Pre-Configured Part Numbers

SC Field Installed Connector

Part Number	Description
FSH-FIFC-4PAK	Field installable FlexConnector with pieces for 4 terminations
FSH-FIFC-SCA-4PAK	Field installable FlexConnector with splice-on SCA connectors and pieces for 4 terminations
020519-2000F	Bulk FLATdrop, toneable, 2.9mm Riser Subunit, 2000 foot (609.60 m) spool
020484-2000F	Bulk FLATdrop, non-toneable, 2.9mm Riser Subunit, 2000 foot (609.60 m) spool