

Application

In addition to our industry standard fiber flat drop, Clearfield offers additional FieldShield FLATdrop options designed to save contractors and installers time and space in almost any deployment environment. The peelable outer sheath of FieldShield FLATdrops allow for easy access to the inner fiber elements (either 3mm or 900um) and each offer a large selection of connector types in a pre-connectorized solution while allowing for up to 100 feet of compact fiber slack storage.

Clearfield's suite of flat drop solutions effectively meet the unique needs of your network deployment.

- **FieldShield Small Form Factor FLATdrop 900µm Peelable** is a uniquely smaller footprint flat drop solution for the access portion of a FTTH or FTTB network. The small format handles more easily than traditional flat drop, allowing for less coiled storage space in outdoor storage. When the jacket is snipped and easily peeled away, the exposed 900µm subunit stores neatly on the compact FieldShield slack reel.

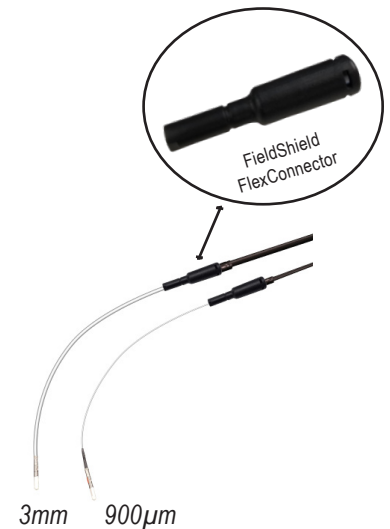
This small form factor FLATdrop is enabled with a pushable SC connector, allowing for placing and pushing through an existing pathway, in addition to the traditional deployments of direct bury or placing aerially.

- **FieldShield FLATdrop 3mm Peelable** is a drop cable solution for the access network such as FTTH and FTTB. By simply peeling back the outer jacket to expose the 3mm sub-unit, storage of excess cable is easily managed and stored on FieldShield slack reels.

All FieldShield FLATdrop cables are factory preconnectorized for fast terminal connection. At the access point, when utilizing YOURx-Terminal, simple plug-and play connectivity is achieved by incorporating a 10mm FieldShield FlexConnector. For use with standard TAP Boxes, FLATdrop breakouts secure into multi-purpose strain relief access points.

Suite of products options includes:

- jacket construction in either toneable or non-toneable
- up-jacketing with or without a rip cord (in 3mm version)



		Drop Types		
		Standard Flat Drop	FieldShield Peelable FLATdrop (With and Without Rip Cords)	FieldShield Peelable Small Form Factor FLATdrop
Coil Diameter		12"	12"	8"
Slack Footprint of Sub-Unit		N/A	100+ ft.	100+ ft.
Sheath Jacket Dims		8.3 mm x 4.7 mm	8.3 mm x 4.7 mm	5.4 mm x 3 mm
Sub-Unit		250µm	3mm	900µm
Recommended P-Clamp		021716	021716	022751
Connector Types	SC/APC	X	X	X
	SC/UPC	X	X	X
	HFOC	X	X	X
	Pushable		X	X
Deployment Environment	Aerial	X	X	X
	Buried	X	X	X
	Conduit	X	X	X

Description

The FieldShield FLATdrop suite offers the first pre-connectorized flat drop style cable to provide hardened environmental performance on a peelable 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, providing an air-tight and water-tight connection.

FlexConnector Options

- Factory Installed: the FlexConnector is shipped permanently installed on the pre-connectorized cable.
- Field Installable: the FlexConnector is shipped separately to be installed in the field over a Pushable SC. 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
- FlexConnector is designed, tested and certified to GR-771
- Terminations are designed, tested and certified to GR-326

Protection

- FlexConnector provides an air-tight, water-tight connection
- FLATdrop peelable cable allows for the outer jacket to be stripped back to expose the more flexible 3mm sub-unit or 900um sub-unit, easing storage of terminated ends

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 bulk packs for field installations

Technical Specifications

FieldShield FLATdrop	
Core Size and Type	Singlemode G652.D/G657.A1
Inner Cable Jacket OD	3.0 mm Ruggedized or Small Footprint 900 μm Subunit
Cable Types	Flat Drop Cable (Dielectric/Toneable)
Connector Type	SC, LC or MPO (only for Standard Flat Drop multi-fiber configuration)
Breakout Length	12 inches (304.80 mm)
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Color	Black Jacket and White Sub-unit
Markings	Part number, lot number, footage markers every two feet (609.60 mm)

Technical Specifications - Pole to Pole Span

Environmental Loading Condition for Drop Application			
	Heavy	Medium	Light
1% Installation Sag Maximum Span Distance ft. (m)	150 (46)	250 (76)	325 (99)

* Max pulling force on connector "W2" is 70 lbs. To obtain 100 lbs., pull on opposite end with pull sock.

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 = Peelable 3mm Non-toneable (Non-rated)
 U = Peelable 3mm Toneable (Non-rated)
 3 = Peelable SFF 900µm Non-Toneable (Non-rated)
 4 = Peelable SFF 900µm Toneable (Non-rated)

2 Select Connector #1

A = SC/UPC D = SC/APC Pushable
 B = SC/UPC Pushable W = HFOC SC/APC
 C = SC/APC W2 = HFOC SC/APC for 900um

3 Select Breakout

Q = YOURx (Factory Installed)
 Z = N/A for HFOC or Pigtail
 1 = YOURx (Ship-along)
 3 = Minimum Required

4 Select Upjacketing

A = 900 µm
 K = 3mm Subunit (Rip Cords)
 N = 3mm Subunit (No Rip Cords)
 Z = N/A

5 Select Connector #2

A = SC/UPC G = LC/APC
 B = SC/UPC Pushable W = HFOC SC/APC
 C = SC/APC W2 = HFOC SC/APC for 900um
 D = SC/APC Pushable Z = Pigtail
 E = LC/UPC

6 Select Breakout

B = 1 Meter P = Pulling Eye
 C = ½ Meter Q = YOURx
 Z = N/A for HFOC or Pigtail 3 = Minimum Required

7 Select Upjacketing

A = 900 µm
 K = 3mm Subunit (Rip Cords)
 N = 3mm Subunit (No Rip Cords)
 Z = N/A

XXXXM or XXXF

XXXXM = Length in meters
 XXXF = Length in feet

Configured Part Numbers

MPO Factory Installed Connector for Industry Standard Flat Drop

H 1 - - - - - Q D - - - - - XXXXF or XXXF

1 2 3 4 5 6

1 Select Jacket Construction

E = Flat Drop Non-Toneable
 M = Flat Drop Toneable

2 Select Fiber Count

006 = 6
 012 = 12

3 Select Connector #1

N = Pushable MPO Male
 P = Pushable MPO Female
 5 = MPO Male
 6 = MPO Female

4 Select Connector #2

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

5 Select Breakout #2

Q = YOURx
 Z = N/A

6 Select Upjacketing

D = 3mm Ruggedized
 Z = N/A

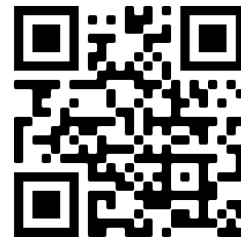
XXXXM or XXXF

XXXXM = Length in meters
 XXXF = Length in feet

Accessories

Part Number	Description
FSH-FIFC-4PAK	Field installable FlexConnector for peelable 3mm, for 4 terminations
FSP-FIFC-6PAK	Field installable FlexConnector for peelable 900 μm, for 6 terminations
FS-PUL-YOURX	YOURx Pulling Tool, 10 mm, with Stainless Steel Pulling Carrot, Reusable
FS-PUL-5-9MM	Pull Sock, 5-9mm, cable, small format cable, reusable
FS-PROTECT-YOURX	YOURx Protective Sleeve, 10 mm, without Pulling Carrot, Used During Deployment, Reusable

- *Field Installable FlexConnector (FSH-FIFC-4PAK) and FSP-FIFC-4PAK for 900 μm assembly*
 - *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*
- *When using FS-PUL-5-9MM on pushable connector end on small format FLATdrop:*
 - *Pulling Eye Loop = 50 lb. max.*
 - *Pull Sock = 100 lb. pull force*
 - *See QR code for installation method video*



Scan for FieldShield Small Form Factor Video.



Pulling Bullet FLATdrop 900um Peelable



Scan for Pulling Bullet Video.