

FieldShield®

FLEXdrop (UL Listed Plenum)



Application

Clearfield's FieldShield FLEXdrop cable provides the most flexible option of our FieldShield product line. The OSP-rated PVDF jacketing allows for transition of FLEXdrop from the OSP environment directly into the inside plant, with the added benefit of being UL listed for plenum applications. FLEXdrop is either pulled or pushed through microduct at turn-up, maximizing installation efficiency. In the event of a later fiber cut, the fiber can be easily pulled from microduct. The duct is then repaired and a new FieldShield Pushable Assembly is pushed or pulled through the microduct for a fast and cost-effective restoration. Options for riser rated applications are also available.

Description

FieldShield FLEXdrop has more flexibility than standard FieldShield Optical Cable making it ideal for shorter drops where more handling and slack storage may be required. Whether it's used indoor or outdoor, the flexibility of the jacket allows for deployment with reduced jacket memory and decreases the risk of kinking. While FLEXdrop is typically used in conjunction with FieldShield Microduct solutions, in some applications, it can be stapled directly to walls and ceilings or used on building wrap applications securing with crown T18 staples.

Features and Benefits

Integrity

- Designed, tested and certified to Telcordia GR-20
- Available in singlemode
- Supports all industry standard connectors

Protection

- UL listed for plenum and riser applications for single fiber only
- Passed UV testing and measurement standards per ASTM G155 for UL 1581
- Bend-insensitive (G.657.A2) fiber protects optical signal with minimal to zero attenuation down to a 10 mm radius
- Staple-ready for walls, joists and around corners, with Crown T-18 staples
- Swellable yarns for water blocking capabilities

Access

- Standard color is black with an option for off-white
- Suitable for all types of indoor and outdoor implementations (duct required for aerial and direct bury)

Investment

- Quick and easy deployment allows capital investment to be aligned to customer take rates



Available in single fiber count



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Technical Specifications

FieldShield FLEXdrop	
Fiber	Corning ClearCurve Optical Fiber or equivalent
Clad Diameter	125.0 ± 0.7 µm
Coating Diameter (Uncolored)	235 - 245 µm
Bend-Insensitive	Bend-Insensitive Fiber G.657.A2
Color Code	TIA/EIA 598 (US Standard)
Fiber Count	Single fiber
Pushable Connectors	FieldShield SC/UPC and SC/APC
Standard Connectors	SC/UPC, SC/APC, LC/APC, LC/UPC, HFOC SC/APC
Mode	Singlemode
Internal Fiber Size	900 µm - Plenum
Outside Diameter	0.118" (3 mm)
Color	Black or white
Material	PVDF (Plenum)
Bend-Radius	Standard to G.657.A2 specifications
Installation Temperature	-22°F to 131°F (-30°C to 55°C)
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Installation Tension	20 lbf
Markings	Part number, lot number and footage markers every two feet (609.60 mm)
Cable Attenuation Spec	0.35 dB/km @ 1310 nm/0.25 dB/km @ 1550 nm
Recommended Drop Length	150 feet (45.72 m) or less for normal installation conditions (200 feet max.)

Pre-Configure Part Numbers

Part Number	Description
FS-CP1-001-6ZD-B 01000F	FieldShield FLEXdrop Optical Cable, Plenum, 1 Fiber, 900um Singlemode, 3mm, White Jacket
FS-CP1-001-8ZD-B 01000F	FieldShield FLEXdrop Optical Cable, Plenum, 1 Fiber, 900um Singlemode, 3mm, Black Jacket