

FieldShield®

Pushable 3 mm Optical Fiber with 900 μm Tight Buffer Fiber



Application

Designed to simplify the placement of fiber, FieldShield Pushable Optical Cable with 900 μm Tight Buffer Fiber reduces the cost of any fiber deployment while providing industry leading protection when mated with FieldShield Microducts. Pushable Fiber is either pushed or pulled through the microduct at turn-up, maximizing installation efficiency. Once deployed, the cable is cut to the specific application length and terminated with a CraftSmart® 900 μm Splice-On Connector.

Description

FieldShield Pushable Optical Cable is a durable and crush resistant product that is suitable for most indoor or outdoor environments. Manufactured using PBT jacketing, pushable optical fiber offers flexibility as well as resistance to chemicals. FieldShield Pushable Optical Fiber is typically recommended to be used in conjunction with FieldShield Microduct.



Features and Benefits

Integrity

- Available in singlemode
- Supports all industry standard connectors
- Only solution approved for use with FieldShield Pre-terminated Pushable Connectors

Protection

- Bend-insensitive (G.657.A2) fiber protects optical signal with minimal to zero attenuation down to a 10 mm radius
- Tough PBT jacketing provides high column strength and low coefficient of friction to maximize push and pull distances
- Lightweight and high crush resistance makes Pushable Optical Fiber strong enough to be stapled directly to walls studs, joists and around corners

Access

- Standard color is black
- Tech-friendly 900 μm fiber inside the outer jacket for applications where CraftSmart® Splice-On Connectors are used
- Suitable for all types of indoor and outdoor implementations

Investment

- Pushes directly into a Clearview® Cassette, FieldShield is optimized for placement alongside Clearfield® FieldSmart® fiber management platforms
- Quick and easy deployment allows capital investment to be aligned to customer take rates

Technical Specifications

FieldShield Pushable 3 mm Optical Fiber with 900 μm Tight Buffer Fiber	
Fiber	OFS All Wave Flex Fiber or equivalent
Water Peak	ZWP (Zero Water Peak)
Bend-Insensitive	Bend-Insensitive Fiber G.657.A2
Color Code	TIA/EIA 598 (US Standard)
Fiber Count	1 fiber
Pushable Connectors	FieldShield SC/UPC, SC/APC, LC/UPC, LC/APC
Standard Connectors	SC/UPC, SC/APC, LC/UPC, LC/APC, HFOC SC/APC
Mode	Singlemode
Internal Fiber Size	900 μm Tight Buffer
Color	Black
Outside Diameter	0.118" (3 mm)
Material	PBT
Bend-Radius	10 mm minimum
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Installation Temperature	-14°F to 158°F (-26°C to 70°C)
Markings	Part number, lot number and footage markers every two feet (609.60 mm)

Physical Characteristics

FieldShield Pushable 3 mm Optical Fiber with 900 μm Tight Buffer Fiber	
Clad Diameter	125.0 ± 0.7 μm
Clad Non-circularity	≤ 1 %
Core/Clad Concentricity Error (Offset)	≤ 0.5 μm maximum, < 0.2 μm typically
Coating Diameter (Uncolored)	900 μm Tight Buffer
Coating-Clad Concentricity Error	(Offset) ≤ 12 μm
Tensile Proof Test	100 kpsi (0.69 GPa)
Coating Strip Force Range	≥ 0.3 lbf < 2.0 lbf (≥ 1.3 N < 8.9 N)

Pre-Configured Part Numbers

Part Number	Description
FS-CC1-001-8ZD-B 01000F	FieldShield pushable optical fiber, one fiber (900 μm), singlemode, 3 mm jacket, 1000 feet (304.80 m)
FS-CC1-001-8ZD-B 02000F	FieldShield pushable optical fiber, one fiber (900 μm), singlemode, 3 mm jacket, 2000 feet (609.60 m)