

FieldShield®

Plenum 12.7/10 mm Microduct



Application

Plenum rated microducts provide a self extinguishing raceway to protect and deploy optical fiber in airspaces, raised floors and other indoor applications designated as plenum air spaces. Plenum 12.7/10 mm Microduct has an outer diameter of 12.7 mm and an inner diameter of 10 mm.

Description

FieldShield Plenum 12.7/10 mm Microduct is a durable, polyvinylidene difluoride (PVDF) crush resistant microduct suitable for protecting fiber in any indoor application. Easily mated with an airtight and waterproof coupler, FieldShield Plenum Microducts integrate with direct bury and aerial microducts creating a single and continuous pathway from outside plant to inside plant environments.



Features and Benefits

Integrity

- Compliant to Telcordia GR-3155
- Conforms to UL-2024. ETL listed.

Protection

- Plenum rated material self-extinguishes flame and does not reignite
- High tension and crush resistance allows microduct to be pushed through existing conduit and around tight corners without degrading microduct

Access

- Quick and easy to install
- Small 10 mm footprint makes FieldShield ideal for all types of indoor implementations maximizing space in ladder racks, raised floors and air handling elevator shafts
- Straight ribs with silicone lining enables fiber to be pushed or pulled with minimal resistance
- White color for easy identification

Investment

- Extends the capacity of existing conduit previously considered exhausted

Technical Specifications

FieldShield Plenum 12.7/10 mm Microducts	
Length	1,500 feet (457.20 m) per spool (-0 / +5%)
Outside Diameter	0.500" (12.70 mm)
Inside Diameter	0.408" (10.36 mm)
Wall Thickness	0.042" (1.07 mm)
Slip Layer	Minimum 0.004" (0.102 mm)
Ovality	≤ 5%
Minimum Bend-Radius	8" (203.20 mm) radius
Material	Polyvinylidene Difluoride (PVDF)
Rating	Plenum rated
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Installation Temperature	-14°F to 158°F (-26°C to 70°C)
Color	White
Tone Wire	N/A
Tone Wire Diameter	N/A
Markings	Part number, date code, footage markers every two feet (609.60 mm)
Spool Size	12" ID x 24" OD x 20" W (304.80 mm x 609.60 mm x 508.00 mm)
Weight	125 lbs (57.00 kg)

Pre-Configured Part Numbers

Part Number	Description
FS-DCP-NT-612.7-PS-1500F	FieldShield Microduct, 12.7 mm, Indoor Plenum, non-toneable, white, 1500 feet (457.20 m)