

FieldShield®

Plenum 10/6 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 10/6 mm Microduct has an outer diameter of 10 mm and an inner diameter of 6.9 mm.

Description

FieldShield Plenum 10/6 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
- Smooth core 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



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Technical Specifications

| FieldShield Plenum 10/6 mm Microducts | |
|---------------------------------------|---|
| Length | 2,000 feet (609.60 m) per spool (-0 / +5%) |
| Outside Diameter | 0.394" (10.01 mm) |
| Inside Diameter | 0.272" (6.91 mm) |
| Wall Thickness | 0.059" (1.50 mm) |
| Slip Layer | Minimum 0.004" (0.102 mm) |
| Ovality | ≤ 5% |
| Minimum Bend-Radius | 6" (152.40 mm) radius, supported 4" (101.60 mm), unsupported 8" (203.20 mm) |
| 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, lot number, footage markers every two feet (609.60 mm) |
| Spool Size | 12" ID x 24" OD x 15" W (304.80 mm x 609.60 mm x 381.00 mm) |
| Weight | 104 lbs (47 kg) |

Pre-Configured Part Numbers

| Part Number | Description |
|---------------------|--|
| FS-MCP-NT-610-2000F | FieldShield Microduct, 10 mm, Indoor Plenum, non-toneable, white, 2000 feet (609.60 m) |