FieldShield®

Direct Bury 10/6 mm Microduct

Application

Simplifying the placement of fiber, while providing protection from harsh environmental elements, FieldShield Direct Bury 10/6 mm Microduct is specifically designed for applications requiring a small heavy duty drop feed. Rugged crush resistance protects FieldShield Direct Bury Microduct from the rigors of all industry standard ground deployment methods, while rigid column strength allows microducts to be deployed through occupied duct previously thought exhausted. Direct Bury 10/6 mm Microduct has an outer diameter of 10 mm and an inner diameter of 6 mm.



Description

FieldShield Direct Bury 10/6 mm Microduct is a durable and crush resistant micro-conduit designed to increase the protection of fiber while decreasing installation and maintenance expenses. Manufactured using high density polyethylene (HDPE), FieldShield Direct Bury Microduct offers superior durability and protection.

Features and Benefits

Integrity

- Compliant to Telcordia GR-3155

Protection

- Quick and easy to install
- Direct Bury Microduct has high tensile strength and crush resistance that withstands all types of ground implementations including open trenching, vibratory plowing, micro-trenching and directional boring
- Made from HDPE to prevent degradation

Access

- Optional external tone wire simplifies ground locating
- Industry standard orange provides high visibility for direct bury applications
- Standard nylon pull string simplifies deployment of fiber
- Smooth core slip lining reduces drag co-efficient enabling fiber to be pushed or pulled with minimal resistance
- Optional black color available to couple direct bury orange to a more aesthetically pleasing black color as it transitions above ground on the side of a living unit

Investment

- Maximizes capacity of existing conduit previously considered exhausted
- Provides industry leading protection for “last mile” feeds

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CLEARFIELD

Technical Specifications

FieldShield Direct Bury 10/6 mm Microduct	
Length	2,000 feet (609.60 m) per spool (-0 / +5%)
Outside Diameter	0.394" (10.01 mm); Oversheathed Toneable 0.50” (12.70 mm)
Inside Diameter	0.246" (6.25 mm)
Wall Thickness	0.074" (1.88 mm)
Slip Layer	Minimum 0.004" (0.102 mm)
Ovality	≤ 5%
Installation Tension	340 lbf
Bend-Radius	Non-toneable: 6" (152.40 mm) radius minimum; Toneable: 7” (177.80 mm) radius minimum
Material	High Density Polyethylene (HDPE)
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	Orange and Black
Tone Wire	Insulated Copper
Tone Wire Diameter	0.032” (0.813 mm) / 20 AWG
Markings	Part number, lot number, 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	Non-toneable: 71 lbs (32.21 kg); Toneable: 78 lbs (35.38 kg)

Pre-Configured Part Numbers

Part Number	Description
FS-DED-NT-210-PS-2000F	FieldShield Microduct, 10 mm, direct bury, non-toneable, orange, 2000 feet (609.60 m)
FS-MEO-T-210-2000F	FieldShield Microduct, 10 mm, direct bury, oversheathed toneable, orange, 2000 feet (609.60 m)
FS-MED-NT-810-2000F	FieldShield Microduct, 10 mm, direct bury, non-toneable, black, 2000 feet (609.60 m)