

# FieldShield®

## Direct Bury 14/10 mm Microduct



### Application

Simplifying the placement of fiber, while providing protection from harsh environmental elements, FieldShield Direct Bury 14/10 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 14/10 mm Microduct has an outer diameter of 14 mm and an inner diameter of 10 mm.

### Description

FieldShield Direct Bury 14/10 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 14/10 mm 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

#### Investment

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

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### Technical Specifications

FieldShield Direct Bury 14/10 mm Microduct	
Length	Non-toneable: 1,500 feet (457.20 m) per spool; Toneable: 1,250 feet (381.00 m) per spool
Outside Diameter	Non-toneable: 0.551" (14.00 mm); Toneable: 0.66" (16.76 mm)
Inside Diameter	0.390" (9.91 mm)
Wall Thickness	0.079" (2.01 mm)
Slip Layer	Minimum 0.004" (0.102 mm)
Ovality	≤ 5%
Installation Tension	Non-toneable: 264 lbf; Toneable: 346 lbf
Bend-Radius	Non-toneable: 8" (203.20 mm) radius minimum; Toneable: 10" (254.00 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
Tone Wire	Insulated Stranded 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: 72 lb (32.66 kg); Toneable: 95 lbs (43.09 kg)

### Pre-Configured Part Numbers

Part Number	Description
FS-DED-NT-214-PS-1500F	FieldShield microduct, 14 mm, direct bury, non-toneable, orange, 1500 feet (457.20 m)
FS-DEO-T-214-PS-1250F	FieldShield microduct, 14 mm, direct bury, oversheathed toneable, orange, 1250 feet (381.00 m)