

1 1/4" HDPE Innerduct — Smooth Wall

Orange · Smooth Wall · High-Density Polyethylene — Fiber Optic Cable

SMOOTH WALL

ORANGE — FIBER STD.

HDPE

DIRECT BURIAL RATED

1.315"

Outside Diameter

1.049"

Inside Diameter (Nom.)

HDPE

Material

500 / 1,000 ft

Stock Reel Lengths

PRODUCT OVERVIEW

Mirabel Energy USA 1-1/4 inch HDPE smooth wall innerduct is the standard subduct for fiber optic cable protection inside larger conduit systems, direct in underground structures, and in cable trays. The smooth-wall interior provides the lowest friction coefficient for cable pulling, maximizing pull length and minimizing installation force compared to corrugated alternatives. Orange is the universally recognized fiber optic pathway color per ANSI/TIA-758 and utility industry practice. HDPE construction provides chemical resistance, impact strength, and UV stability for long-term OSP performance.

APPLICATIONS

- Fiber optic subduct inside 2"-4" main conduit
- Direct buried innerduct for fiber cable protection
- OSP underground cable pathway management
- Utility substation cable tray fiber separation
- Data center campus OSP duct entry subduct
- Telecommunications outside plant innerduct
- Renewable energy site fiber cable protection

PRODUCT FEATURES

- Color:** Orange — fiber optic standard per ANSI/TIA-758
- Wall Type:** Smooth wall — minimum pull friction
- Material:** High-Density Polyethylene (HDPE)
- UV Rating:** UV-stabilized for outdoor/OSP exposure
- Flexibility:** Coilable — ships on reel for easy deployment
- Chemical Res.:** Resistant to soils, chemicals, fuels
- Temp Range:** -40°C to +60°C (installation/service)
- End Fittings:** Compatible with standard 1.25" conduit fittings

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	TEST / STANDARD
Nominal Size	1-1/4 inch (1.25")	Trade size designation
Outside Diameter (OD)	1.315" (33.4 mm)	ASTM D3035
Inside Diameter (ID)	1.049" (26.6 mm) nominal	ASTM D3035
Wall Thickness	0.133" (3.4 mm) nominal	ASTM D3035
Material	High-Density Polyethylene (HDPE)	ASTM D3350
Color	Orange — UV-stabilized pigment	ANSI/TIA-758 fiber standard
Wall Type	Smooth wall (non-corrugated)	—
Min. Bend Radius	6" (152 mm) installed	Mfr. specification
Tensile Strength	≥24 MPa (HDPE base resin)	ASTM D638
UV Resistance	UV-stabilized — HDPE OSP grade	ASTM D4355
Operating Temp.	-40°C to +60°C	ASTM D648
Reel Lengths	500 ft and 1,000 ft standard	—
Compliance	ASTM D3035 / F2160 NEMA TC-7	NEMA TC-7

COMPATIBLE FIBER CABLE — PULL-IN CAPACITY (70% FILL RATIO)

CABLE TYPE	MAX CABLE OD	TYPICAL FIBER COUNT	NOTES
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