



TECHNICAL DATA SHEET INDOOR - OUTDOOR CABLE

MDU Drop Cable / FRTPU

FOSPC-001-N-MDUFRTPU-3MM / 1 Fiber

Applications



Indoor



Outdoor



Aerial



Duct Installation



Bend Insensitive



FTTx Cable

Protections



Flame Retardant



UV Resistant



FRTPU Cable



Low Smoke Emission



LSZH Cable

Note: Protections marked with "*" are only applicable for the tight buffer.

The rest are only applicable for the outer jacket.

Description

Waveoptics® MDU Drop Cable is ideal for FTTx applications, due to its flexibility, robustness and light weight. The optical fibers are positioned in the center of the cable under a 900um tight buffer tube.

Aramid yarn as a strength member provides excellent tensile strength. In addition, the cable has a FRTPU Black Outer Jacket, ideal for indoor / outdoor applications.

FRTPU Black Outer Jacket prevents the spread of flames, in case of fire. Also, it can be considered low smoke emission, and is manufactured free of halogen materials and with the highest mechanical performance.

Quality

Waveoptics® is a ISO-9001:2015 certified company.

We meet or exceed the following international standards.

- IEC 60794-1-21 E1 to E7: Mechanical test methods for Fiber Optic Cable.
- IEC 60794-1-21 F1: Temperature cycling test

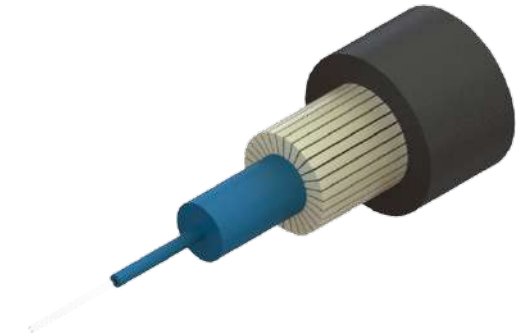
Each Waveoptics® cable meets the highest quality standards in the industry and contains a compliance certificate in which the performed tests in our quality laboratory are physically attached.

Folio SS-930-01-EN

Last Review 12/12/2023

www.waveoptics.net

info@waveoptics.net



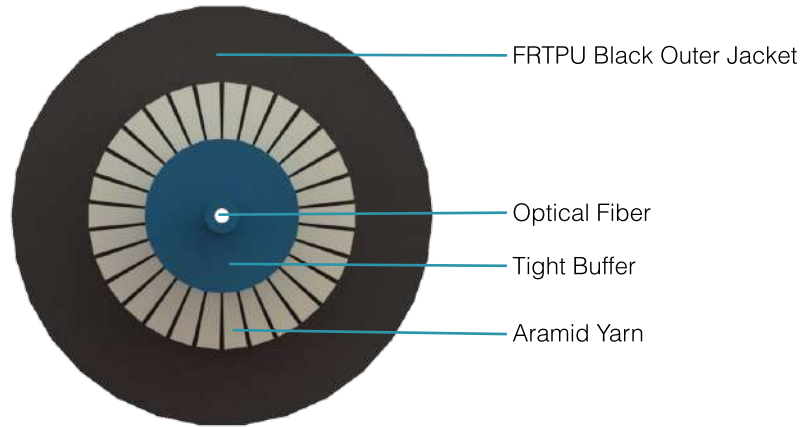
MDU FRTPU DROP CABLE 01F G657.B3 FIBER FT

TECHNICAL DATA SHEET

INDOOR - OUTDOOR CABLE

FOSPC-001-N-MDUFRTPU-3MM / 1 Fiber

Dimensions & Properties



| Design | |
|---|------------------------------------|
| Fiber Count | 1 |
| Tight Buffer Color Code | 1 Blue |
| Tight Buffer Material / Diameter | LSZH / 0.9 mm (0.04 in) (± 0.05mm) |
| Dielectric Strength Member | Aramid Yarn |
| Outer Jacket Material / Color | FRTPU with UV protection / Black |
| Reel Length | 2,000 m (6561 ft) (± 5%) |
| Temperature Range | |
| Operation | -20°C to 60°C (-4° F to 140° F) |
| Installation | -10°C to 50°C (14° F to 122° F) |
| Storage / Transport | -20°C to 60°C (-4° F to 140° F) |
| Mechanical Properties | |
| Maximum Crush Resistance (Short-term / Long-term) | 500 N/100 mm / 100N/100mm |

Note: Waveoptics® recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

| Fiber Count | Nominal Outer Diameter (mm) (in) (±5%) | NESC | SPAN (ft) (m) | Tension Strength (Loaded) (N) (lbf) | SAG-Loaded (%) | Cable Weight (kg/km) (lb/kft) (±10%) |
|-------------|--|--------|---------------|-------------------------------------|----------------|--------------------------------------|
| 1 | 3.0 (0.12) | LIGHT | 1400 (427) | 800 (179) | 1.00 | 8.4 (5.6) |
| | | MEDIUM | 220 (67) | | 2.50 | |
| | | HEAVY | 120 (36) | | 3.80 | |

TECHNICAL DATA SHEET INDOOR - OUTDOOR CABLE

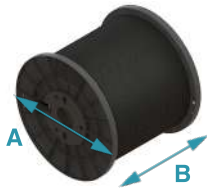
FOSPC-001-N-MDUFRTPU-3MM / 1 Fiber

Printed Information on Outer Jacket

=/SERIAL NUMBER/= = WAVEOPTICS = /YEAR/MONTH/= =FOSPC-001-N-MDUFRTPU-3MM= =1FO= =G657B3= =TP= =/LOT# /= =/METERS/ M=

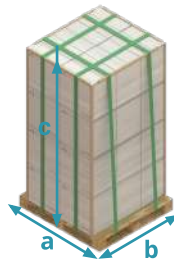
- Printed in white and resistant to physical tests on marking.
- Marking interval: every 1 meter + 1%

Drum Dimensions and Pallet Packaging Information



| Outer Jacket Material | Reel Length (m) (ft) (±5%) | A (mm)(in) (±5%) | B (mm)(in) (±5%) |
|-----------------------|----------------------------|------------------|------------------|
| FRTPU | 2,000 (6,561) | 360 (14) | 318 (12.5) |

| PACKAGING | Box and Drum Weight (kg)(lb) (±10%) | C (mm)(in) (±5%) | D (mm)(in) (±5%) | E (mm)(in) (±5%) |
|-----------|-------------------------------------|------------------|------------------|------------------|
| PACKAGING | 19.1 (42) | 370 (14.5) | 350 (13.7) | 370 (14.5) |



| Pallet Gross Weight (kg)(lb) (±10%) | Reel Qty. per Pallet | Total Packaging (±5%) | | |
|-------------------------------------|----------------------|-----------------------|------------|------------|
| | | a (mm)(in) | b (mm)(in) | c (mm)(in) |
| 573 (1263) | 30 | 1,016 | 1,219 | 2,010 |

All drums include:

1. Test report certificate
2. Product description (weight, dimensions, lot and part number)

TECHNICAL DATA SHEET INDOOR - OUTDOOR CABLE

FOSPC-001-N-MDUFRTPU-3MM / 1 Fiber

Transmission Performance by Fiber Type

| Fiber Type | |
|--|-----------|
| Waveoptics® Fiber Type | G657.B3 |
| Waveoptics® Fiber Code | N |
| Wavelength (nm) | 1310/1550 |
| Max.attn. (dB/km) (1) | 0.4/0.3 |
| Cable Marking Specifications | G657.B3 |
| Notes: (1) Maximum attenuation after cabling process. | |

Part Number Configuration

FOSPC-001-N-MDUFRTPU-3MM

Waveoptics® Fiber Type

N - G657.B3

Note: Please contact your Waveoptics® distributor if you need any additional compliance or if you have questions about the part number configuration.