



# Reel-in-a-box Rugged Toneable Flat Drop Cable 2.0mm Dry

FOSPC-0XX-X-TFRLTD20-FTB42-US / 1-12 Fibers

## Applications



Outdoor



Aerial



Duct Installation



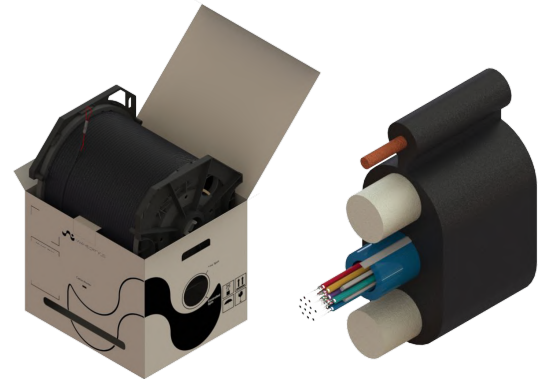
Direct-buried



Self-supporting



Toneable



REEL IN A BOX RUGGED TONEABLE FLAT DROP  
CABLE 2.0MM DRY 12F G657A1 FIBER FT

## Protections



Water Blocking



UV Resistant



Crush  
Resistant

## Description

Waveoptics® Gel-Free Flat Drop Cable is designed for self-supporting, direct-buried and duct installations. Fully dielectric design, ideal for drop applications, offering ease of access as well as easy installation.

Single loose tube made of PBT which provides great mechanical properties under a wide range of conditions such as crush test and impact test. Gel-free water blocking technology allows a cleaner and quicker installation as well as a cost-friendly cable preparation.

PE single jacket with additives makes a resistant, durable and easy to strip cable, providing superior protection against UV radiation, fungus, abrasion and other environmental factors.

Two parallel dielectric strength members that require no bonding or grounding, offering exceptional crush resistance. The FRP strength members are coated with EAA for improved adherence.

Reel-in-a-box packaging makes a quicker and easier installation, providing a cost-friendly and time-efficient installation method.

## Quality

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

We meet or exceed the following international standards:

- Telcordia GR-20: Generic requirements for optical fiber and optical fiber cable.
- IEC 60794: Basic requirements for optical fiber and cable elements.
- ANSI/ICEA S-87-640: Standard for optical fiber outside plant communications cable.
- ANSI/ICEA S-110-717: Standard for optical fiber drop cable.

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.

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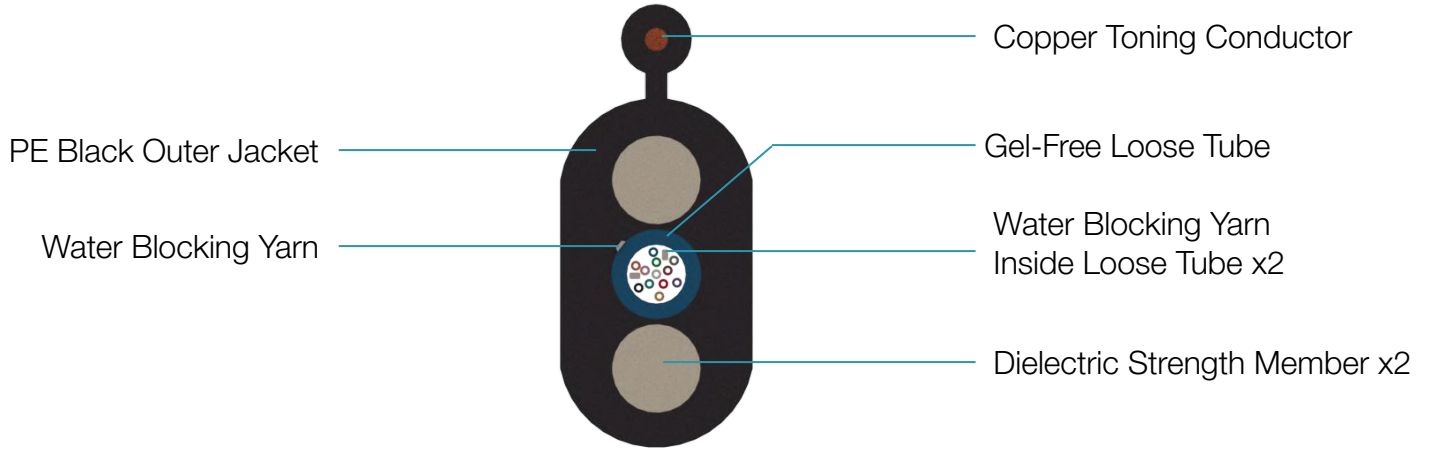
# WAVEOPTICS

## TECHNICAL DATA SHEET

### OUTDOOR CABLE

## Dimensions & Properties

FOSPC-0XX-X-TFRLTD20-FTB42-US / 1 - 12 Fibers



DESIGN	
Fiber per Tube	1 - 12
Fiber Color Code	
Dielectric Strength Member	EAA Coated FRP
Outer Jacket Material	Polyethylene
Loose Tube Diameter	2.0 mm (0.08 in)
Drum Length	2,000 ft (610 m) (±5 %)
Temperature Range	
Operation	-40°C to 70°C (-40° F to 158° F)
Installation	-30°C to 70°C (-22° F to 158° F)
Storage / Transport	-40°C to 70°C (-40° F to 158° F)
Mechanical Properties	
Crush resistance (short-term / long-term)	2,200 N/100mm / 1,100 N/100mm
Minimum bend radius (operation / installation)	10 x OD / 20 x OD

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.



# WAVEOPTICS

## TECHNICAL DATA SHEET


### OUTDOOR CABLE

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Fiber Count	Cable weight (kg/km) (lb/kft) (±10%)	Tensile strength (N) (lbf) long-term / short-term	Nominal outer dimensions (mm) (in) (±5%)	Dielectric strength member diameter (mm) (in)
1 - 12	41.3 (27.7)	400 / 1,350 (90 / 303)	9.9 x 4.3 (0.39 x 0.17)	2.0 (0.08)

Note: Please contact your Waveoptics® distributor for information about the NESC installation conditions.

## Printed Information on Outer Jacket

= /MONTH/YEAR/ WAVEOPTICS OPTICAL CABLE= =RUGGED FLAT DROP= =TONEABLE= =DRY= =  = = /FIBERTYPE/= = /FIBERCOUNT/= = /FEET\*/ FT= = /LOT# /=-

- Printed in white and resistant to physical tests on marking
  - Marking interval: every 2 feet + 1%
  - The marking can be changed according to customer requirements
- \*The standard marking interval is every 2 feet, in case the marking requirement is in meters, a notification on the purchase order would be necessary



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## TECHNICAL DATA SHEET

### OUTDOOR CABLE

FOSPC-0XX-X-TFRLTD20-FTB42-US / 1 - 12 Fibers

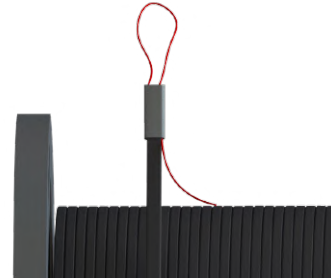
## Reel and Packaging Information



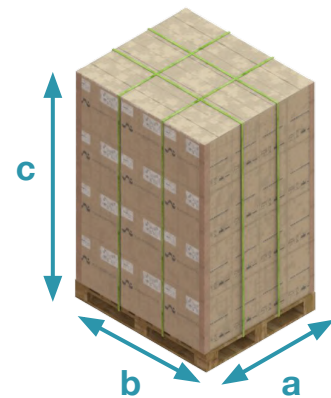
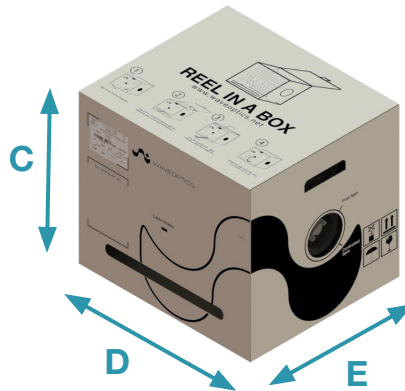
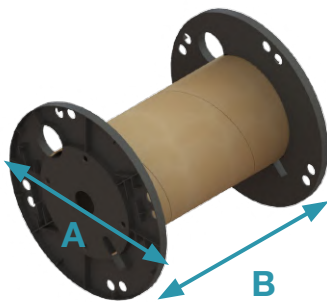
Reel supported by caddies, allowing it to rotate inside the box. Making it a more practical packaging/installation solution.



Spin control knob allows to have better reel rotation control. Allowing it to rotate freely or controlled.



Pulling-eye integrated on the end of the cable, allowing easy access to the cable.



Reel Length (ft) (m) (±2 ft)	Reel Dimensions (mm) (in) (±5%)		Box dimensions (mm) (in) (±5%)			Total Weight (kg) (lb) (±10%)	Pallet Capacity (ft) (m) (±5%)	Pallet dimensions (mm) (in) (±5%)		
	A	B	C	D	E			a	b	c
2,000 ft (610)	355 (14)	445 (17.5)	395 (15.6)	500 (19.7)	407 (16.0)	894 (1,971)	60,000 (18,288)	2,175 (86)	1,219 (48)	1,016 (40)

Note 1: All documentation included in each drum of cable is in English, if a different language is needed, please contact your sales agent.

**All boxes include:\***

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

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# WAVEOPTICS

## TECHNICAL DATA SHEET

### OUTDOOR CABLE

FOSPC-0XX-X-TFRLTD20-FTB42-US / 1 - 12 Fibers

## Transmission Performance by Fiber Type

Fiber Type	Single Mode				Multi mode
Waveoptics® Fiber Type	G652.D	G657.A1	G657.A2	G655.C	OM1
Waveoptics® Fiber Code	F	T	E	G	B
OFS® Fiber Type	G652.D	AllWave® FLEX			-
OFS® Fiber Code	1	2			-
Wavelength (nm)	1310/1550			1550/1625	850/1300
Max.attn. (dB/km) (1)	0.35/0.25	0.35/0.25	0.35/0.25	0.25/0.27	3.4/1
Min. bandwidth (MHz*km) (2)					200/500
1-Gigabit ethernet distance (m) (3)					300
10-Gigabit ethernet distance (m) (4)					-
40/100-Gigabit ethernet distance (m) (5)					-
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G655.C	OM1

**Notes:**

(1) Maximum attenuation after cabling process

(2) OFL (overfilled launch) bandwidth measurement

(3) 1-Gb/sat 850 nm transmissions based on IEEE 802.3z test protocol

\*For more information about the optical fibers, consult the corresponding data sheets.

(4) 10-Gb/sat 850 nm transmissions based on IEEE 802.3ae test protocol

(5) 40/100-Gb/sat 850 nm transmissions based on IEEE P802.3ba test protocol

## Part Number Configuration

# FOSPC-0XX-X-TFRLTD20-FTB42-US

### Fiber Count

- 01 - 1 Fiber
- 02 - 2 Fibers
- 04 - 4 Fibers
- 06 - 6 Fibers
- 08 - 8 Fibers
- 12 - 12 Fibers

### Waveoptics® Fiber Type

- F - SM G652.D
- T - SM G657.A1
- E - SM G657.A2
- G - SM G655.C
- B - MM OM1

### OFS® Fiber Type

- 1 - SM G652.D
- 2 - AllWave® FLEX

### Optical Cable Compliance

- US - Waveoptics® Standard
- AC - Buy American Act Compliance

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

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