



# Toneable Flat Drop Cable Gel-Filled

## FOSPC-0XX-X-TFDLT30-FTXXX-US / 1-12 Fibers

### Applications



Outdoor



Aerial



Duct Installation



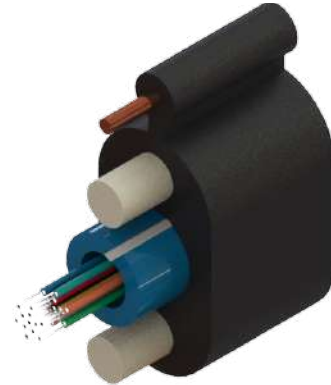
Direct-buried



Self-supporting



Toneable



### Protections



UV Resistant



Water Blocking



Crush Resistant

TONEABLE FLAT DROP CABLE GEL-FILLED  
12F G652.D FIBER FT

### Description

Waveoptics® Toneable Flat Drop Cable Gel-Filled is designed for self-supporting, direct-buried and duct installations. 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, and is filled with water blocking gel.

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 offer exceptional crush resistance. The FRP strength members are coated with EAA for improved adherence and water penetration.

Copper toning conductor allows effortless detection in direct-buried installation.

### 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.

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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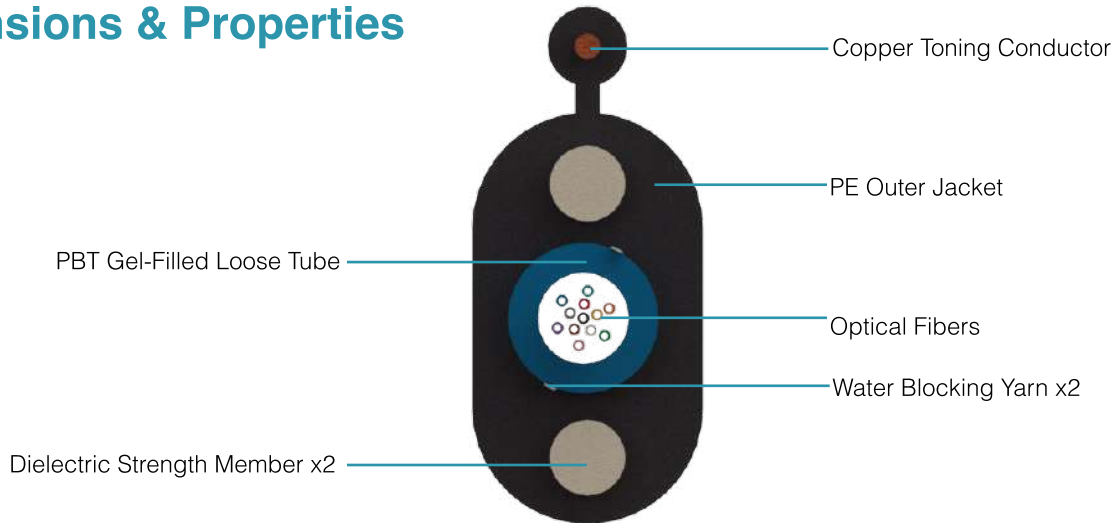
Last Review 5/30/2022


# TECHNICAL DATA SHEET

## OUTDOOR CABLE

FOSPC-0XX-X-TFDLT30-FTXXX-US / 1-12 Fibers

### Dimensions & Properties



Design	
Fiber Count	1 - 12
Fiber Color Code	
Loose Tube Material / Diameter (±5%)	PBT / 3.0 mm (0.12 in)
Dielectric Strength Member Diameter / Material	1.65 mm / EAA Coated FRP
Outer Jacket Material	Polyethylene
Toning Conductor	24 AWG Copper Wire
Drum Length	2,000 ft, 5,000 ft, 10,000 ft, 15,000 ft & 20,000 (±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/100 mm / 1,100 N/100 mm
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.

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# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-0XX-X-TFDLT30-FTXXX-US / 1-12 Fibers

## Dimensions & Properties

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	53.5 (36)	400 / 1,350 (90 / 303)	9.59 (±0.5) x 4.5(±0.5) (0.38 x 0.18)	1.65 (0.065)

## Printed Information on Outer Jacket

==/MONTH//YEAR/WAVEOPTICS OPTICAL CABLE+==FLAT DROP==TONEABLE==  ==/FIBER TYPE//FIBER COUNT//FEET\*/FT==/LOT# / =

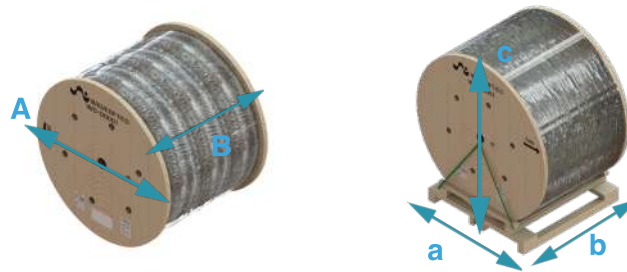
- Printed in white and resistant to physical tests on marking
- Marking interval: every 2 feet + 1%
- The marking can be changed according to customer requirement

# TECHNICAL DATA SHEET

## OUTDOOR CABLE

FOSPC-0XX-X-TFDLT30-FTXXX-US / 1-12 Fibers

### Drum Dimensions and Pallet Packaging Information



Drum Length (ft) (m) (±5%)	Fiber Count	A (mm) (in) (±5%)	B (mm) (in) (±5%)	Drum and Pallet Total Weight (kg) (lb) (±10%)	Total Packaging (±5%)		
					a (mm) (in)	b (mm) (in)	c (mm) (in)
5,000 (1,524)	1 - 12	700 (28)	580 (23)	156 (343.9)	1,219 (48)	762 (30)	821 (32)
10,000 (3,048)		900 (35)	930 (37)	270 (596)	965 (38)	1,067 (42)	1,021 (40)
15,000 (4,572)		1,000 (39)	780 (31)	354 (780)	965 (38)	914 (36)	1,121 (44)
20,000 (6,096)		1,150 (45)	930 (37)	462 (1,018)	965 (38)	1,067 (42)	1,271 (50)

Note 1: Please contact your sales agent for higher fiber counts or different drum lengths available.

Note 2: All documentation included in each drum of cable is in english, if a different language is needed, please contact your sales agent.

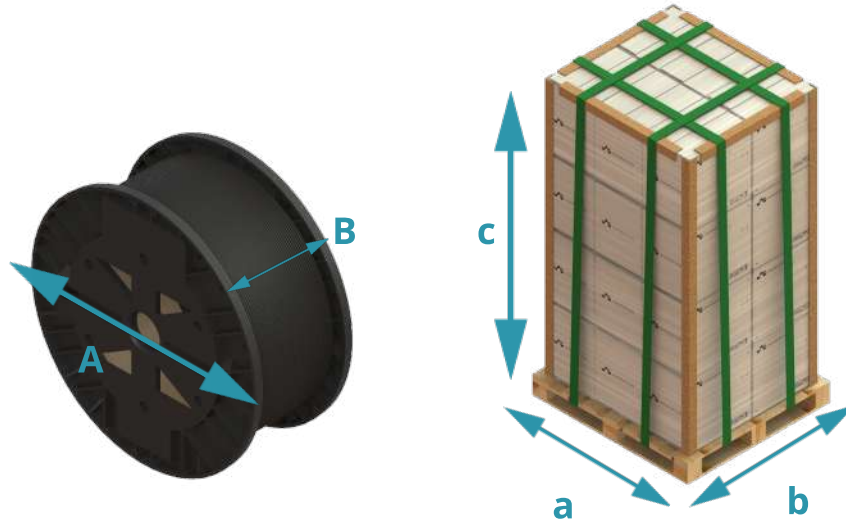
**All drums include:\***

1. Drum handling instructions
2. Test report certificate
3. Product description (weight, dimensions, lot and part number)
4. End cable marking
5. Both ends include end caps to protect against humidity

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-0XX-X-TFDLT30-FTXXX-US / 1-12 Fibers

## Drum Dimensions and Pallet Packaging Information



Drum Length (ft) (m) (±5%)	Fiber Count	A (mm) (in) (±5%)	B (mm) (in)(±5%)	Drum and Pallet Total Weight (kg) (lb) (±10%)	Total Reel Qty. per Pallet	Total Packaging (+5%)		
						a (mm) (in)	b (mm) (in)	c (mm) (in)
2,000 (610)	1 - 12	475 (18)	340 (13)	887 (1,956)	24	1,100 (43)	1,200 (47)	1,560 (61)

Note 1: Please contact your sales agent for higher fiber counts or different drum lengths available.

Note 2: All documentation included in each drum of cable is in english, if a different language is needed, please contact your sales agent.

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-0XX-X-TFDLT30-FTXXX-US / 1-12 Fibers

## Transmission Performance by Fiber Type

Fiber Type	Single Mode				Multi Mode		
Waveoptics® Fiber Type	G652.D	G657.A1	G657.A2	G657.B3	OM1	OM2	OM3
Waveoptics® Fiber Code	F	T	E	N	B	L	M
OFS® Fiber Type	G652.D	AllWave® FLEX	-	-	-	-	-
OFS® Fiber Code	1	2	-	-	-	-	-
Wavelength (nm)	1310/1550				850/1300		
Max. attn. (dB/km) (1)	0.35/0.25	0.35/0.25	0.4/0.3		3.4/1	3/1	
Min. Bandwidth (MHz*km) (2)	-				200/500	750/500	1500/500
1-Gigabit Ethernet Distance (m) (3)	-				300	750	>550
10-Gigabit Ethernet Distance (m) (4)	-				-	150	300
40/100-Gigabit Ethernet Distance (m) (5)	-				-	-	100/70
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G657.B3	OM1	OM2	OM3

**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-TFDLT30-FTXXX-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
- N - SM G657.B3
- B - MM OM1
- L - MM OM2 TRUE BEND
- M - MM OM3 TRUE BEND

### OFS® Fiber Type

- 1 - SM G652.D
- 2 - AllWave® FLEX

### Outer Jacket Material / Loose Tube Material

- 002- MDPE/PBT
- 0BZ- MDPE/PBT/REEL 2,000

## 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.

**Folio PE-383-01-EN**

**Last Review 5/30/2022**