



# Flat Drop Cable Gel-Filled

## FOSPC-0XX-X-FDLT30-FTXXX-US / 1-12 Fibers

### Applications



Outdoor



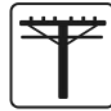
Aerial



Duct Installation



Direct-buried



Self-supporting

### Protections



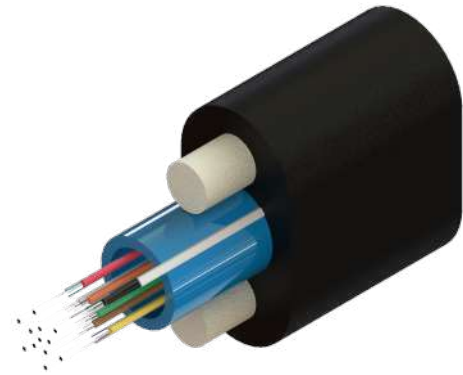
UV Resistant



Water Blocking



Crush Resistant



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

### Description

Waveoptics® Flat Drop Cable Gel-Filled 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, 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 require no bonding or grounding, offering exceptional crush resistance. The FRP strength members are coated with EAA for improved adherence and water penetration.

### 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.

Folio PE-331-01-EN

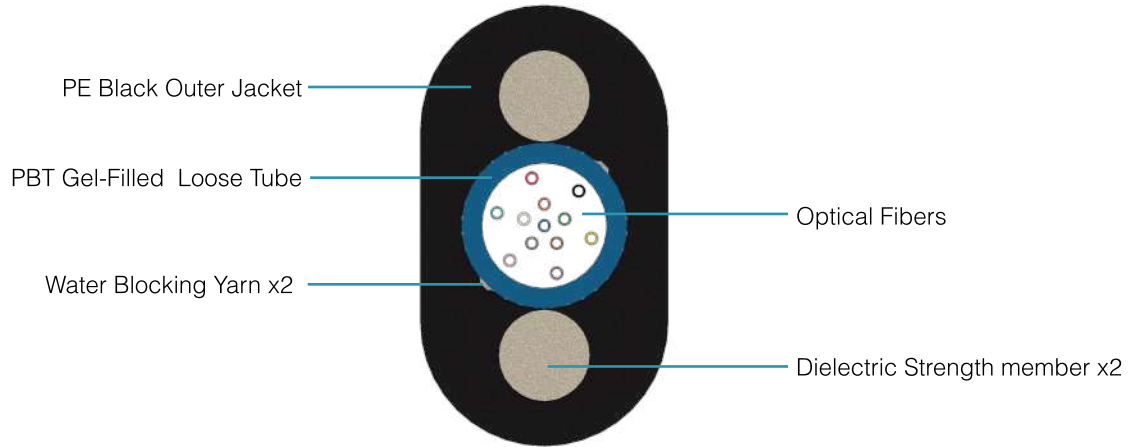
Last Review 7/26/2023


# TECHNICAL DATA SHEET

## OUTDOOR CABLE

FOSPC-0XX-X-FDLT30-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
Drum Length	2,000 ft, 5,000 ft, 10,000 ft, 15,000 ft & 20,000 ft (±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.

Folio PE-331-01-EN

Last Review 7/26/2023

[www.waveoptics.net](http://www.waveoptics.net)

[info@waveoptics.net](mailto:info@waveoptics.net)

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-0XX-X-FDLT30-FTXXX-US / 1-12 Fibers

## Dimensions & Properties

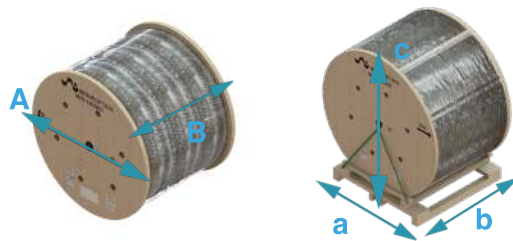
Fiber Count	Cable Weight (kg/km) (lb/kft) ( $\pm 10\%$ )	Tensile Strength (N) (lbf) Long-Term / Short-Term	Nominal Outer Dimensions (mm) (in) ( $\pm 5\%$ )	Dielectric Strength Member Diameter (mm) (in)
1-12	40 (27)	400 / 1,350 (90 / 303)	8.0 ( $\pm 0.4$ ) x 4.5 ( $\pm 0.5$ ) (0.31 x 0.18)	1.65 (0.065)

## Printed Information on Outer Jacket

= /MONTH//YEAR/ WAVEOPTICS OPTICAL CABLE = = FLAT DROP= =  = = /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 requirements

## Drum Dimensions and Pallet Packaging Information



Drum Length (ft) (m) ( $\pm 5\%$ )	Fiber Count	A (mm) (in) ( $\pm 5\%$ )	B (mm) (in) ( $\pm 5\%$ )	Drum and Pallet Total Weight (kg) (lb) ( $\pm 10\%$ )	Total Packaging ( $\pm 5\%$ )		
					a (mm) (in)	b (mm) (in)	c (mm) (in)
5,000 (1,524)	1 - 12	700 (27.5)	580 (23)	135 (298)	1,219 (48)	762 (30)	840 (33)
10,000 (3,048)	1 - 12	900 (35)	930 (37)	229 (505)	965 (38)	1,067 (42)	1,021 (40)
15,000 (4,572)	1 - 12	1,000 (39)	780 (31)	292 (644)	965 (38)	914 (36)	1,121 (44)
20,000 (6,096)	1 - 12	1,000 (39)	780 (31)	353 (779)	965 (38)	914 (36)	1,121 (44)

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

Folio PE-331-01-EN

Last Review 7/26/2023

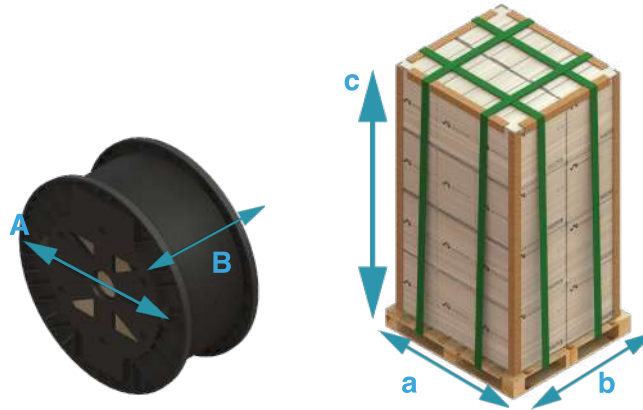
www.waveoptics.net

info@waveoptics.net

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-0XX-X-FDLT30-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)	681 (1,501)	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.

### 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-FDLT30-FTXXX-US / 1-12 Fibers

## Transmission Performance by Fiber Type

Fiber Type	Single Mode			
Waveoptics® Fiber Type	G652.D	G657.A1	G657.A2	G657.B3
Waveoptics® Fiber Code	F	T	E	N
OFS® Fiber Type	G652.D	-	-	-
OFS® Fiber Code	1	-	-	-
Wavelength (nm)	1310/1550			
Max.attn. (dB/km) (1)	0.36/0.25	0.36/0.25	0.4/0.3	
Min. Bandwidth (MHz*km) (2)	-			
1-Gigabit Ethernet Distance (m) (3)	-			
10-Gigabit Ethernet Distance (m) (4)	-			
40/100-Gigabit Ethernet Distance (m) (5)	-			
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G657.B3
Notes: (1) Maximum attenuation after cabling process				

## Part Number Configuration

# FOSPC-0XX-X-FDLT30-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

### OFS® Fiber Type

1 - SM G652.D

### Outer Jacket Material / Loose Tube Material

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

## Optical Cable Compliance

US - Waveoptics® Standard

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

**Folio PE-331-01-EN**

**Last Review 7/26/2023**