WAVEOPTICS

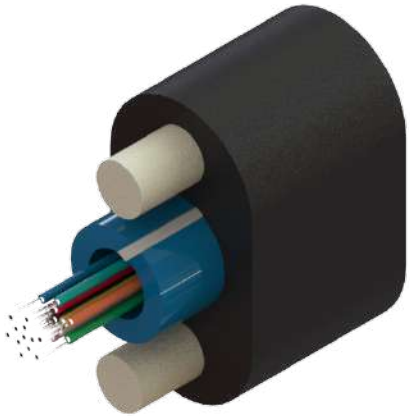
TECHNICAL DATA SHEET
OUTDOOR CABLE

Flat Drop Cable Gel-Filled

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

Applications

Protections



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

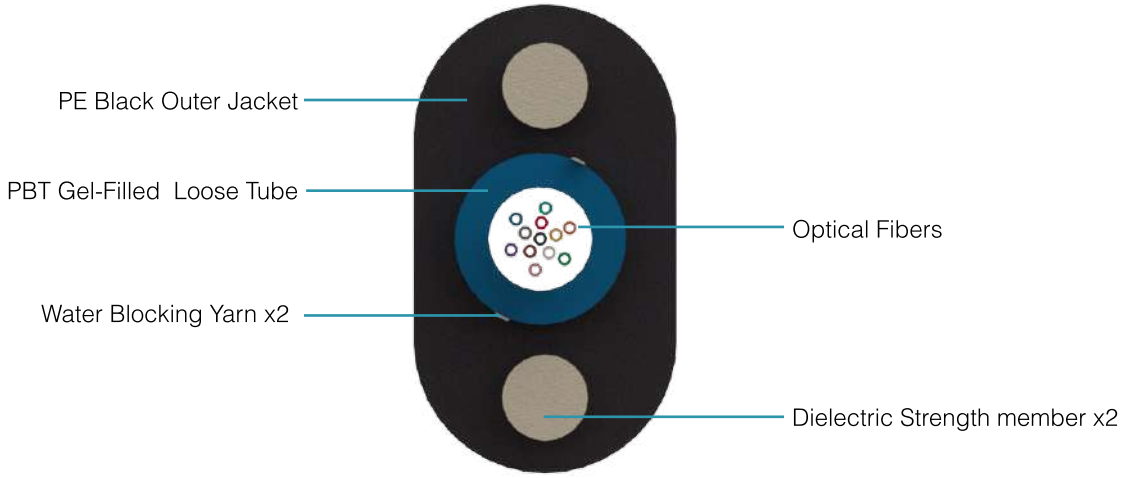
Last Review 8/26/2022

WAVEOPTICS

TECHNICAL DATA SHEET
OUTDOOR CABLE

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

Dimensions & Properties



Design	
Fiber Count	1-12
Fiber Color Code	1 2 3 4 5 6 7 8 9 10 11 12
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.

WAVEOPTICS

TECHNICAL DATA SHEET
OUTDOOR CABLE

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

Dimensions & Properties

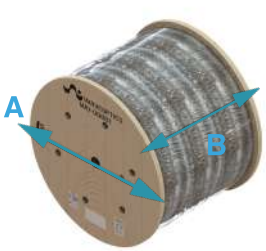
Fiber Count	Cable Weight (kg/km) (lb/kft) (±10%)	Tensile Strength (N) (lbf) Long-Term / Short-Term	Nominal Outer Dimensions (mm) (in) (±5%)	Dielectric Strength Member Diameter (mm) (in)
1-12	40 (27)	400 /1,350 (90 / 303)	8.0 (±0.4) x 4.5 (±0.5) (0.31x 0.18)	1.65 (0.065)

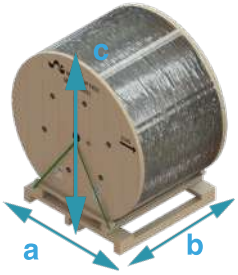
Printed Information on Outer Jacket

= /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) (±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 (27.5)	580 (23)	135 (297.6)	1,219 (48)	762 (30)	821 (32)
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 (643.7)	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.

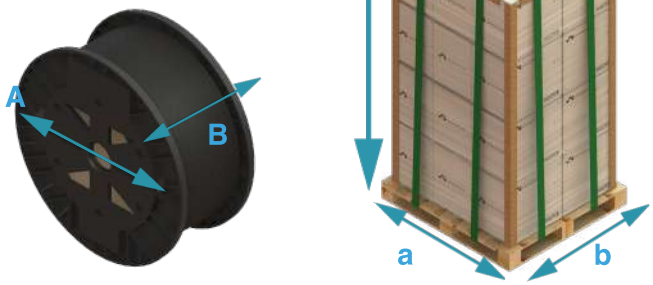
All drums include:*

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

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

WAVEOPTICS

TECHNICAL DATA SHEET
OUTDOOR CABLE

FOSPC-0XX-X-FDLT30-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	OM4
Waveoptics® Fiber Code	F	T	E	N	B	L	M	P
OFS® Fiber Type	G652.D	AllWave® FLEX	-	-	-	-	-	-
OFS® Fiber Code	1	2	-	-	-	-	-	-
Wavelength (nm)	1310/1550				850/1300			
Max.attn. (dB/km) (1)	0.36/0.25	0.36/0.25	0.4/0.3		3.4/1	3/1		
Min. Bandwidth (MHz*km) (2)	-				200/500	750/500	1500/500	3500/500
1-Gigabit Ethernet Distance (m) (3)	-				300	750	>550	>550
10-Gigabit Ethernet Distance	-				-	150	300	400
40/100-Gigabit Ethernet Distance	-				-	-	100/70	150/100
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G657.B3	OM1	OM2	OM3	OM4

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-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
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: Only applicable for 2,000 ft drum length.

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 8/26/2022