



TECHNICAL DATA SHEET OUTDOOR CABLE

Reel-in-a-box Rugged Toneable Flat Drop Cable 2.0mm Gel-Filled

FOSPC-0XX-X-TFRLT20-FTB42-US / 1-12 fibers

Applications



Outdoor



Aerial



Duct Installation



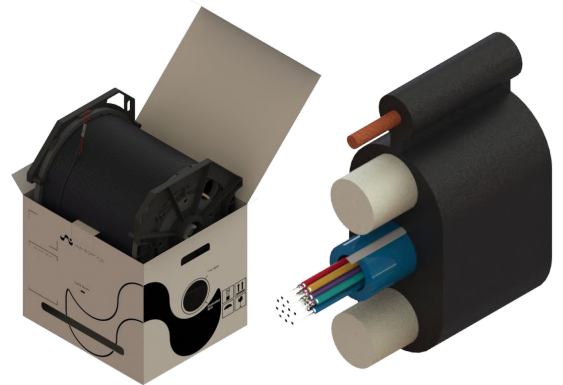
Direct-buried



Self-supporting



Toneable



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

Protections



Water Blocking



UV Resistant



Crush Resistant

Description

Waveoptics® Rugged Toneable Flat Drop Cable 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.

This slightly more compact flat drop cable design is more robust and stiffer than the traditional flat drop cable because of its two parallel 2 mm dielectric strength members that significantly increase the impact and crush resistance properties of the cable. The FRP strength members are coated with EAA for improved adherence.

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

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.

Folio PE-629-01-EN
Last Review 10/28/2021



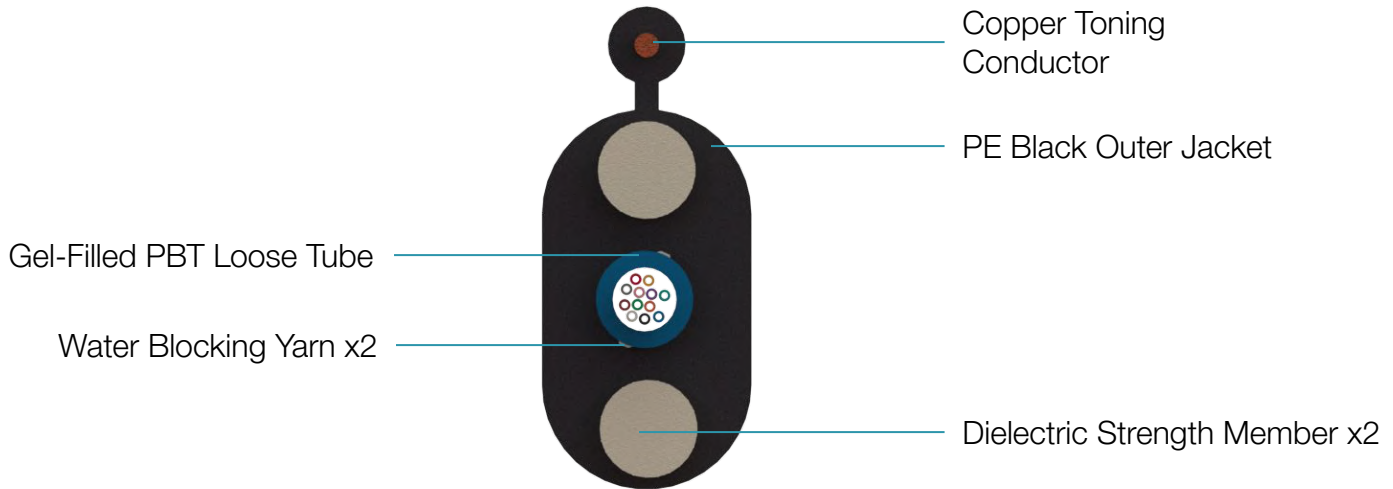
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TECHNICAL DATA SHEET

OUTDOOR CABLE

Dimensions & Properties

FOSPC-0XX-X-TFRLT20-FTB42-US / 1-12 fibers



DESIGN	
Fiber per Tube	1 - 12
Fiber Color Code	
Dielectric Strength Member	EAA Coated FRP
Toning Conductor	24 AWG Copper Wire
Outer Jacket Material	Polyethylene
Loose Tube Material / Diameter	PBT / 2.0 mm (0.08)
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.

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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	41.8 (28.1)	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= =  = = /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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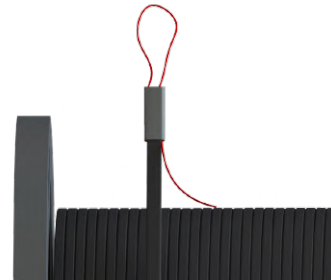
Reel and Packaging Information



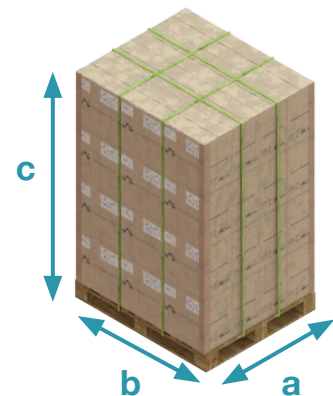
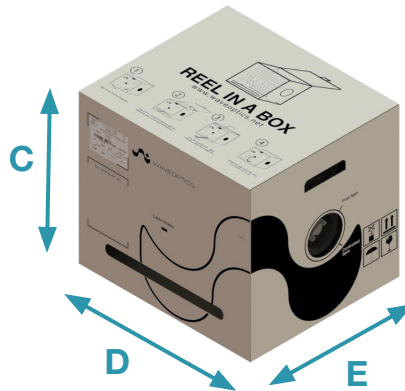
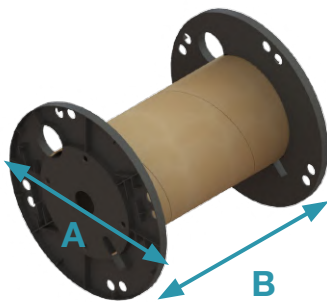
Reel supported by caddies, allowing it to rotate inside the box. Making it a more practical packaging/installation solution.



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)		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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OUTDOOR CABLE

FOSPC-0XX-X-TFRLT20-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	OM2	OM3	OM4
Waveoptics® Fiber Code	F	T	E	G	B	L	M	P
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	-	0.25/0.27	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 (m) (4)	-				-	150	300	400
40/100-Gigabit ethernet distance (m) (5)	-				-	-	100/70	150/100
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G655.C	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
 - (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
- *For more information about the optical fibers, consult the corresponding data sheets.

Part Number Configuration

FOSPC-0XX-X-TFRLT20-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
- L - MM OM2 TRUE BEND
- M - MM OM3 TRUE BEND
- P - MM OM4 TRUE BEND

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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