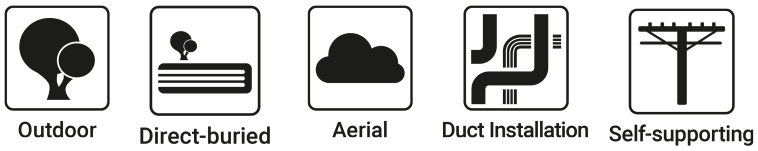
WAVEOPTICS

TECHNICAL DATA SHEET
FIBER OPTIC OUTDOOR CABLES
FLAT DROP CABLES

RUGGED FLAT DROP CABLE 2.0MM DRY

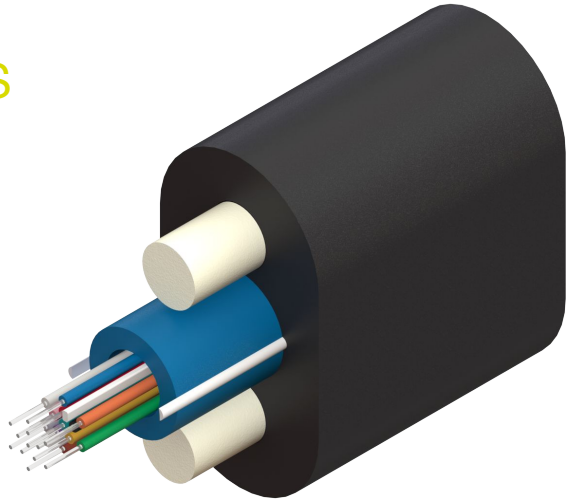
FOSPC-XXX-X-FDLTD20-FTXXX-US

Applications



Protections





FOSPC-XXX-X-FDLTD20-FTXXX-US

Description

WAVEOPTICS® Rugged Gel-Free Flat Drop Cable is engineered for self supporting robust and reliable fiber optic deployments in challenging outdoor environments. Our ruggedized flat drop cable offers exceptional durability and ease of installation. Designed in accordance with the highest standards it ensures long term performance and resilience against harsh weather conditions.

Ideal for drop applications, offering ease of access as well as easy installation. This flat drop cable design is more robust and stiffer than the traditional flat drop cable design. Gel-free waterblock technology allows a cleaner and quicker installation.

Quality

WO Manufacturing is a ISO-9001: 2015 certified company.
These products are designed under the following international standards:

- **Telcordia GR-20:** Generic requirements for optical fiber and optical fiber cable.
- **ANSI/ICEAS-110-717:** Standard for optical fiber drop cable.
- **IEC 60794:** Basic requirements for optical fiber.

Mechanical and environmental tests:

- **FOTP-33 / FOTP-38:** Cable tensile loading and fiber strain test
- **FOTP-41:** Cable compressive test
- **FOTP-25:** Cable impact test
- **FOTP-104:** Cyclic flexing test
- **FOTP-85:** Cable twist test
- **FOTP-82:** Water penetration test
- **IEC 60794-1-21, Method E2B, Method 2:** Jacket print test
- **FOTP-3:** Cable temperature cycling test
- Attenuation coefficient

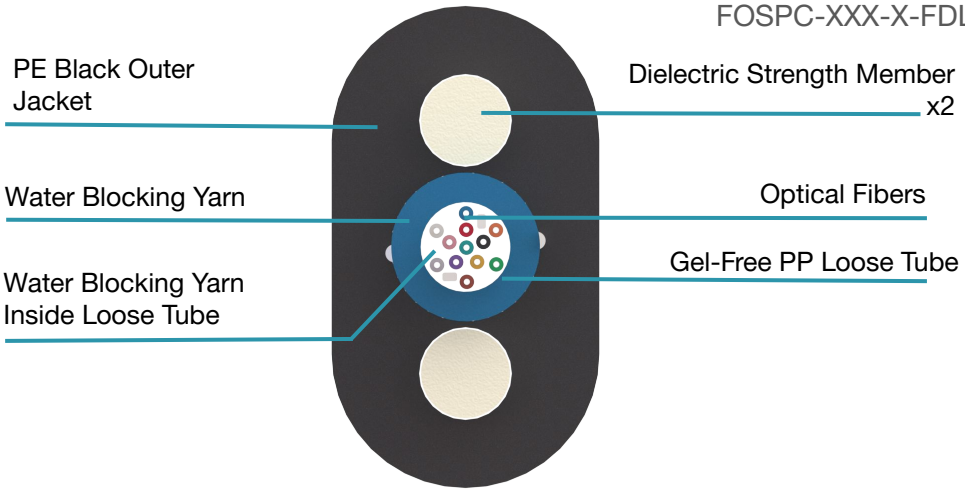
Revision: TR250508-01

WAVEOPTICS

TECHNICAL DATA SHEET
FIBER OPTIC OUTDOOR CABLES
FLAT DROP CABLES

FOSPC-XXX-X-FDLTD20-FTXXX-US

Dimensions and Properties



Design	
Fibers per loose tube	1-12
Fiber color coding / loose tube	1 2 3 4 5 6 7 8 9 10 11 12
Dielectric reinforcing member	EAA coated FRP
Outer jacket material	Polyethylene
Loose tube / Diameter (± 5%)	PP / 2.0 mm (0.12 in)
Drum length	5,000 ft, 10,000 ft, 15,000 ft & 20,000 ft (0 to +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 / Transportation	-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/100mm
Minimum bend radius (operation / installation)	10 x OD/ 20 x OD

Note: Waveoptics recommends storing the cable in a suitable temperature environment prior to installation to allow the cable temperature to meet the installation temperature range specifications for best installation results.

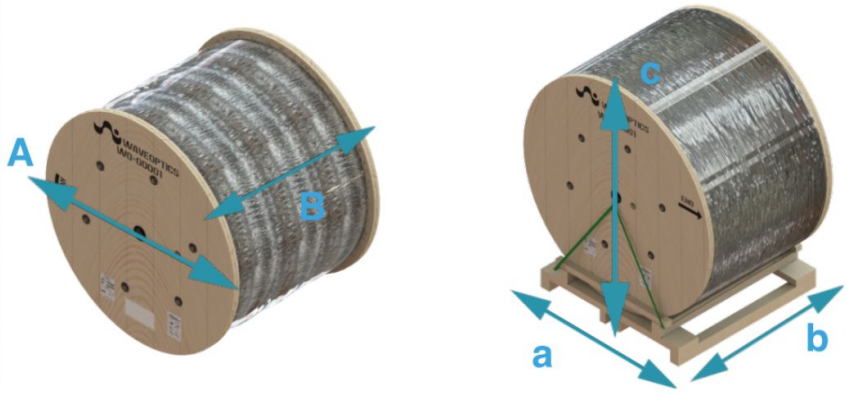
Number of fibers	Weight kg/km (lb/kft) (± 10%)	Tensile strength N (lbf) long term / short term	Outer diameter mm (in) (± 5%)	FRP diameter mm (in)
1 - 12	37.18 (25)	400 / 1,350 (90 / 303)	8 ± 0.4 x 4.5 ± 0.5 (0.31 x0.17)	2.05 (0.08)

Printed Information on Cover

= /XXXX/*= = /MONTH/ /YEAR/ /BRAND/ OPTICAL CABLE= = = /LOT# /= = RUGGED FLAT DROP= = DRY= = /FIBER COUNT/= = /FIBER TYPE/=

- White inkjet printing and resistant to physical tests on the marking
- Printed range: 1+ 1% - 0% meter or every 2 feet 0 to + 1%
- Legend can be changed according to customer's request

Reel Dimensions and Pallet Packing



Drum Length (ft) (m) (±5%)	Fiber Count	A (mm) (in) (±5%)	B (mm) (in) (±5%)	Total weight reel + pallet(kg) (± 10%)	Packing dimensions with pallet(± 5%)		
					a (mm)	b (mm)	c (mm)
5,000* (1,524)	1 - 12	550	626	138.5	550	650	750
10,000 (3,048)		750	630	303.1	750	650	950
15,000 (4,572)		900	930	431	900	820	1100
20,000 (6,096)		1000	780	501.5	100	800	1200

NOTE: *Only reels shipped by consolidated load will be packed on pallets
Note 1: Please contact your sales agent for different drum lengths available.
* Note 2: For 5,000 ft packaging, the minimum order quantity is 12 reels per part number configuration.
** Note 3: All documentation included in each drum/reel of cable can be in english or spanish language.

In all the reels, the following is attached:*

1. Coil handling instructions
2. Optical test certificate
3. Both ends are fitted with anti-humidity protectors
4. End of cable END mark
5. Product description (weight, dimensions and code number)

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TECHNICAL DATA SHEET
FIBER OPTIC OUTDOOR CABLES
FLAT DROP CABLES

FOSPC-XXX-X-FDLTD20-FTXXX-US

Transmission Performance by Fiber Type

Fiber type	Single-mode	
Category	G652.D	G657.A1
WAVEOPTICS Fiber Code	F	T
OFS Fiber Type	1	-
Wavelengths (nm)	1310 / 1550	
Maximum attenuation (dB/km) (1)	0.35 / 0.25	
Cable marking specification	G652.D	G657.A1

Notes:
(1) Maximum attenuation after extrusion process.

Part Number Configuration

FOSPC-XXX-X-FDLTD20-FTXXX-US

Fiber count

001 - 1 fiber
002 - 2 fibers
004 - 4 fibers
006 - 6 fibers
008 - 8 fibers
012 - 12 fibers

WO Manufacturing fiber type

F - SM G652.D
T - SM G657.A1

OFS fiber type

1 - SM G652.D

Marking unit

FT - Feet

Outer jacket / loose tube materials

001 - HDPE / PP
A7V- HDPE / PP 5,000 ft Wooden reel

Optical Cable compliance

US - Waveoptics brand standard products for U.S.A. and Canada, manufactured by WO Manufacturing