WAVEOPTICS

TECHNICAL DATA SHEET
OUTDOOR CABLE

Loose Tube All-Dielectric Flat Ribbon Fiber Cable Gel-filled

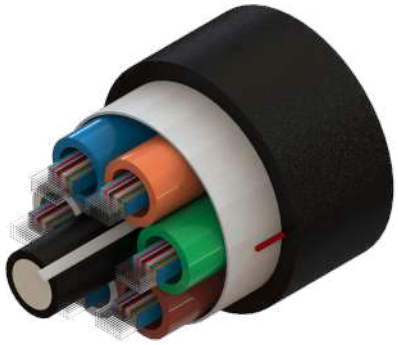
FOSPC-XXX-X-RSJAD-FTXXX-US/ 96-864 Fibers

Applications

Outdoor | Duct Installation | Lashed

Protections

UV Resistant | Water Blocking



LOOSE TUBE ALL-DIELECTRIC FLAT RIBBON FIBER CABLE 432F G652D FIBER FT

Description

Waveoptics® Loose tube Ribbon cables are designed for outdoor applications, these cables can be installed in ducts and they are known because of their outstanding carrying capacity.

Ribbon units are stranded around a fiber reinforced plastic (FRP) central strength member with PE surrounded with water blocking yarns.

The SZ-stranded method for loose tubes and two ripcords ensure a quick and easy mid-span access.

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.

Dielectric central strength member requires no bonding or grounding.

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.

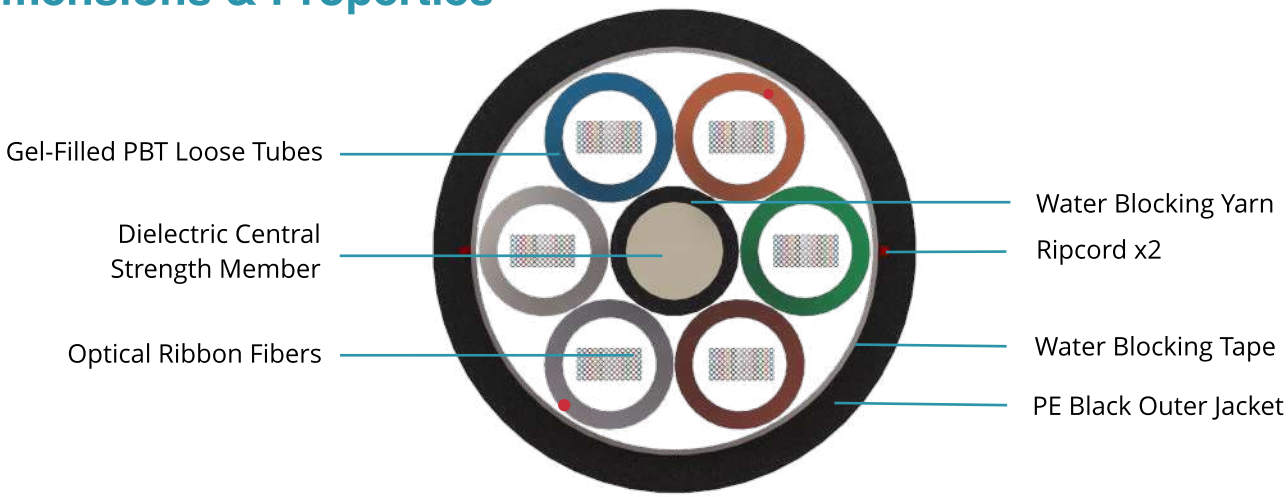
Each Waveoptics® cable meets the highest quality standards in the industry and contains a compliance certificate in which the performed tests in our quality laboratory are physically attached.

WAVEOPTICS

TECHNICAL DATA SHEET
OUTDOOR CABLE

FOSPC-XXX-X-RSJAD-FTXXX-US / 96-864 Fibers

Dimensions & Properties



Design	
Fiber per Tube	24 - 144
Fiber Color Code	1 2 3 4 5 6 7 8 9 10 11 12
Dielectric Strength Member	FRP
Outer Jacket Material	Polyethylene
Loose Tube Material	PBT
Drum Length	**96 F, 144 F**: 20,000 (6,096 m) (±5%) **288F, 432 F, 576F**: 10,000 (3,048 m) (±5%) **864 F**: 6,562 ft (2,000 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)	1,500 N/100 mm / 500 N/100 mm
Tensile Strength (Short-Term / Long-Term)	2,700 N / 900 N
Minimum Bend Radius (Operation / Installation)	15 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-XXX-X-RSJAD-FTXXX-US / 96-864 Fibers

Dimensions & Properties

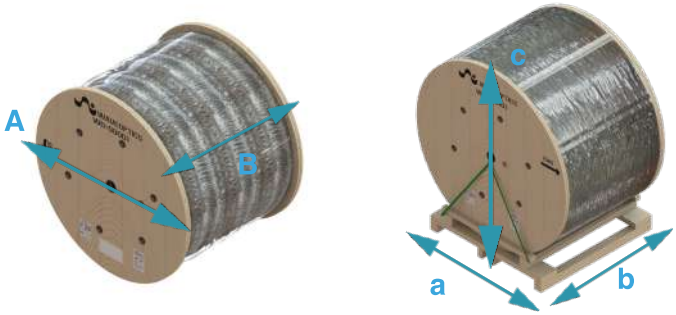
Fiber Count	Loose Tube / Diameter (mm) (in)	Ribbon Per Tube	Fibers Per Tube	Cable Weight (kg/km) (lb/kft) (±10%)	Nominal Outer Diameter (mm) (in) (±5%)	Dielectric Central Strength Member Diameter (mm) (in) (Without PE / With PE)
96	4 / 4.4 (0.17)	2	24	136 (91)	13.8 (0.54)	3.6 / 4.6 (0.14 / 0.18)
144	4 / 4.8 (0.19)	3	36	190 (128)	16.1 (0.63)	3.6 / 5.0 (0.14 / 0.20)
288	6 / 5.2 (0.2)	4	48	290 (195)	19.8 (0.78)	3.6 / 5.4 (0.14 / 0.21)
432	6 / 5.6 (0.22)	6	72	325 (218)	21 (0.83)	3.6 / 5.8 (0.14 / 0.23)
576	6 / 6.1 (0.24)	8	96	378 (254)	22.8 (0.89)	3.6 / 6.3 (0.14 / 0.24)
864	6 / 7.4 (0.3)	12	144	517 (347)	26.8 (1.1)	3.6 / 7.6 (0.14 / 0.3)

Printed Information on Outer Jacket

= /MONTH//YEAR/ WAVEOPTICS OPTICAL CABLE + = =RSJAD= =  = = /FIBER TYPE/= = /FIBER COUNT/= = /FEET*/ FT= = /LOT# /=

- Printed in white and resistant to physical tests on marking
- Marking interval: every 2 feet + 1% or 1 meter + 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)
6,562 (2,000)	864	1,850 (73)	1,100 (43)	1,235 (2,722)	1,850 (73)	1,219 (48)	1,940 (76)
10,000 (3,048)	288	1,850 (73)	1,100 (43)	2,129 (4,694)	1,850 (73)	1,219 (48)	1,940 (76)
	432	1,850 (73)	1,100 (43)	1,192 (2,628)	1,850 (73)	1,219 (48)	1,940 (76)
	576	2,050 (81)	1,100 (43)	1,373 (3,027)	2,050 (81)	1,219 (48)	2,140 (84)
20,000 (6,096)	96	1,650 (65)	1,100 (43)	1,011 (2,229)	1,650 (65)	1,219 (48)	1,791 (71)
	144	1,650 (65)	1,100 (43)	1,360 (2,998)	1,650 (65)	1,219 (48)	1,791 (71)

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-XXX-X-RSJAD-FTXXX-US / 96-864 Fibers

Transmission Performance by Fiber Type

Fiber Type	Single Mode
Waveoptics® Fiber Type	G652.D
Waveoptics® Fiber Code	F
Wavelength (nm)	1310/1550
Max.attn. (dB/km) (1)	0.36/0.25
Cable Marking Specifications	G652.D

Notes:
(1) Maximum attenuation after cabling process

Part Number Configuration

FOSPC-XXX-X-RSJAD-FTXXX-US

Fiber Count

96 - 96 Fibers
144 - 144 Fibers
288 - 288 Fibers
432 - 432 Fibers
576 - 576 Fibers
864 - 864 Fibers

Waveoptics Fiber Type

F - SM G652.D

Drum Length

C51 - 6,562 ft
0BI - 10,000 ft
0BV - 20,000 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.