



Loose Tube Single-Armored Flat Ribbon Cable Gel-Filled

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

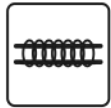
Applications



Outdoor



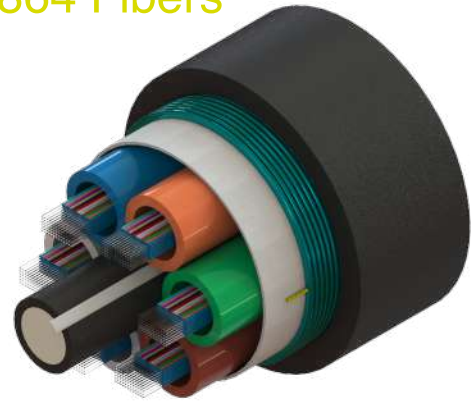
Duct Installation



Lashed



Direct-buried



LOOSE TUBE SINGLE-ARMORED FLAT RIBBON
CABLE GEL-FILLED 432F G.652D FIBER FT

Protections



UV Resistant

Crush
Resistant

Water Blocking

Rodent
DeterrentImpact
Resistant

Description

Waveoptics® Loose Tube Single-Armored Flat Ribbon Cables are designed for Outdoor applications, these cables can be direct-buried as well as aerial (lashed) installation, 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 and 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.

Corrugated steel armor makes a rugged cable rodent deterrent and offers exceptional performance against compression.

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-644-01-EN

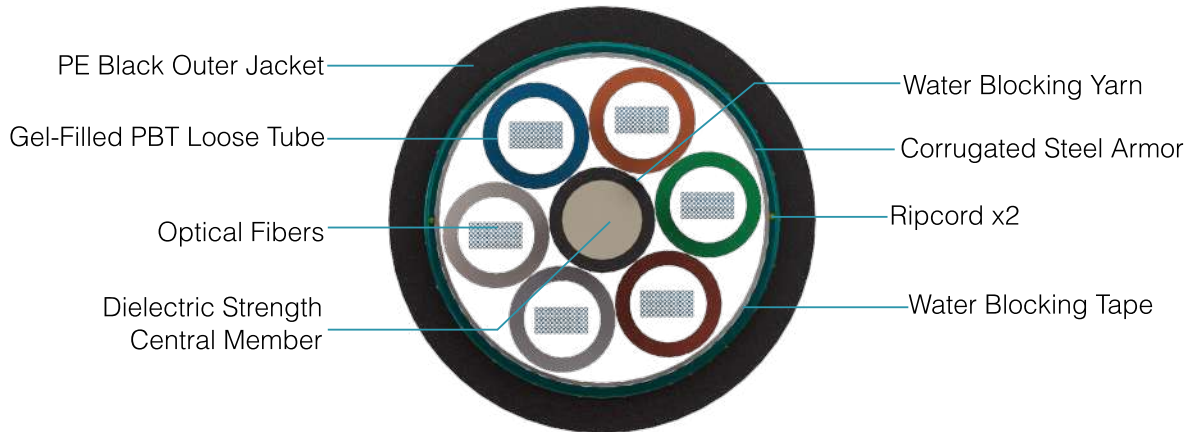
Last Review 2/28/2023



TECHNICAL DATA SHEET OUTDOOR CABLE

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

Dimensions & Properties



Design	
Fiber per Tube	24-144
Fiber Color Code	
Dielectric Central Strength Member	FRP
Outer Jacket Material	Polyethylene
Loose Tube Material	PBT
Drum Length	96F: 20,000ft (±5%) 144F: 15,000 (±5%) 288F, 432F, 576F: 10,000 ft (±5%), 864F: 5,000ft (±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)	3,000 N/100mm / 1,000 N/100mm
Tensile Strength (Short-Term/Long-Term)	3,000 N / 900 N
Minimum Bend Radius (Operation / Installation)	15 x OD / 25 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.



TECHNICAL DATA SHEET OUTDOOR CABLE

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

Dimensions & Properties

Fiber Count	Loose Tubes / Diameter (mm)(in)	Fibers per Ribbon	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)	12	2	24	195 (131)	14.9 (0.59)	3.6/4.6 (0.14/0.18)
144	4 (4.8)	12	3	36	255 (171)	17.2 (0.68)	3.6/5.0 (0.14/0.20)
288	6 (5.2)	12	4	48	360 (242)	20.9 (0.82)	3.6/5.4(0.14/0.21)
432	6 (5.6)	12	6	72	400 (269)	22.1 (0.87)	3.6/5.8 (0.14/0.31)
576	6 (6.1)	12	8	96	470 (316)	23.9 (0.94)	3.6/6.3 (0.14/0.25)
864	6 (7.4)	12	12	144	620 (417)	27.9 (1.1)	3.6/7.6 (0.14/0.30)

Printed Information on Outer Jacket

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

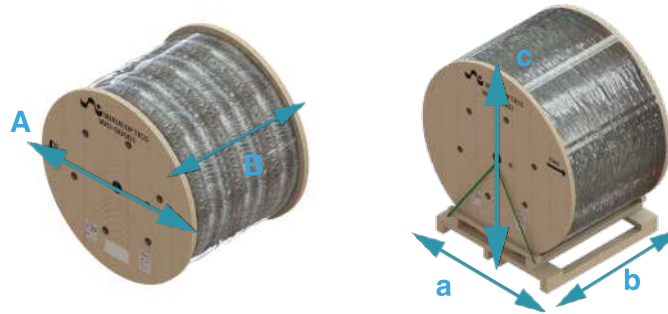
- Printed in white and resistant to physical tests on marking
- Marking interval: every 2 feet + 1%



TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-XXX-X-RSJS-FTXXX-US / 96-864 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 Packaging (±5%)		
					A (mm)(in)	B (mm)(in)	C (mm)(in)
5,000 (1,524)	864	2,000 (79)	1,100 (43)	1,461 (3,221)	2,000 (79)	1,219 (48)	2,146 (85)
10,000 (3,048)	288	1,800 (71)	1,100 (43)	1,298 (2,862)	1,800 (71)	1,219 (48)	1,943 (77)
	432	1,800 (71)	1,100 (43)	1,420 (3,131)	1,800 (71)	1,219 (48)	1,943 (77)
	576	2,000 (87)	1,100 (43)	1,653 (3,644)	2,000 (79)	1,219 (48)	2,350 (93)
15,000 (4,572)	144	1,600 (63)	1,100 (43)	1,346 (2,967)	1,600 (63)	1,219 (48)	1,740 (69)
20,000 (6,096)	96	1,700 (67)	1,100 (43)	1,381 (3,044)	1,700 (67)	1,219 (48)	1,842 (73)

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-XXX-X-RSJSA-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

*For more information about the optical fibers, consult the corresponding data sheets.

Part Number Configuration

FOSPC-XXX-X-RSJSA-FTXXX-US

Fiber Count

096 - 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

OBM - 5,000 ft
OBI - 10,000 ft
OBR - 15,000 ft
OBV - 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.