

TECHNICAL DATA SHEET
OUTDOOR CABLE

Loose Tube Single-Armored Single-Jacket Slim Cable Gel-Filled / PP

FOSPC-XXX-X-SJSA-FT000-EX / 2-144 Fibers

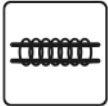
Applications



Outdoor



Duct Installation



Lashed



Direct-buried

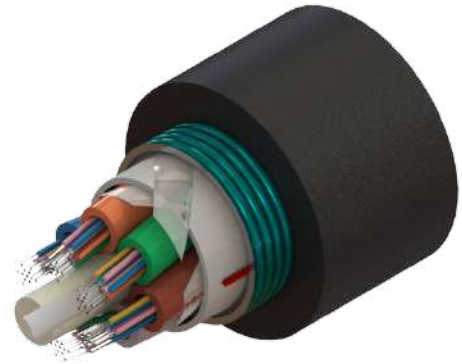
Protections



Water Blocking



UV Resistant

Crush
ResistantImpact
ResistantRodent
DeterrentLOOSE TUBE SINGLE-ARMORED SINGLE-JACKET
CABLE GEL-FILLED 72F G652D FIBER FT

Description

Waveoptics® Loose Tube Single-Armored Single Jacket Slim Cable is designed for direct-buried installation, as well as for duct and aerial (lashed) installation. Reduced weight design and smaller diameter allows the usage of smaller ducts.

Loose tubes made of PP are more flexible and allow an easier installation and routing, and are 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.

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

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.



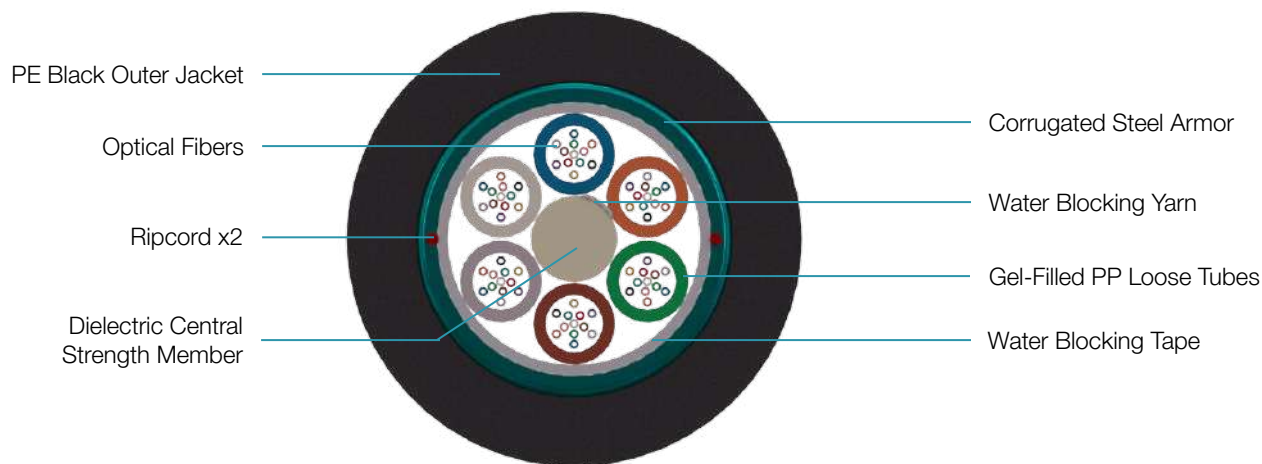
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FOSPC-XXX-X-SJSA-FT000-EX / 2-144 Fibers

Dimensions & Properties



Design	
Fiber per Tube	2 - 12
Fiber Color Code / Loose Tube Color Code	
Dielectric Central Strength Member	FRP
Outer Jacket Material / Thickness	Polyethylene / 1.6 mm (0.06 in)
Loose Tube Material / Diameter	PP / 1.9 mm (0.07 in)
Drum Length	5,000 ft, 10,000 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)	4,400 N/100 mm / 2,200 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.



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Fiber Count	Loose Tube / Fillers	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) (With PE/Without PE)
2 - 12	1/5	111 (75)	890 / 2,700 (200/607)	10.7 (0.42)	2 (0.08)
24	2/4	111 (75)	890 / 2,700 (200/607)	10.7 (0.42)	2 (0.08)
36	3/3	111 (75)	890 / 2,700 (200/607)	10.7 (0.42)	2 (0.08)
48	4/2	111 (75)	890 / 2,700 (200/607)	10.7 (0.42)	2 (0.08)
60	5/1	111 (75)	890 / 2,700 (200/607)	10.7 (0.42)	2 (0.08)
72	6/0	111 (75)	890 / 2,700 (200/607)	10.7 (0.42)	2 (0.08)
96	8/0	130 (87)	890 / 2,700 (200/607)	11.9 (0.47)	3.2 (0.13)
144	12/0	180 (121)	890 / 2,700 (200/607)	14.2 (0.56)	3 / 5.5 (0.12 / 0.22)

Printed Information on Outer Jacket

= /MONTH/YEAR/ WAVEOPTICS OPTICAL CABLE= =SJSA= = PP = =  = = /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



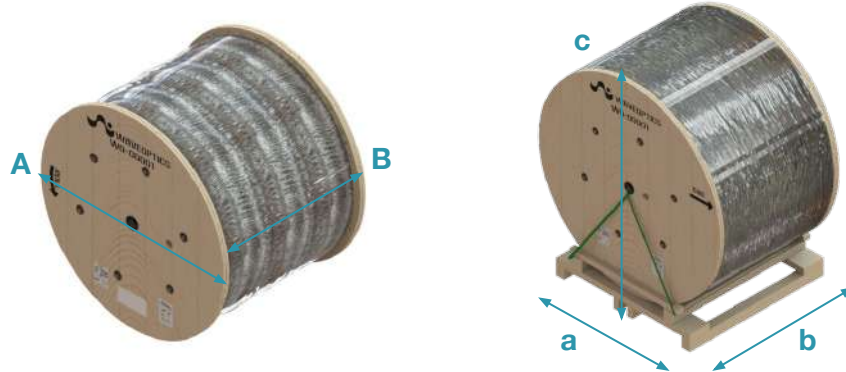
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FOSPC-XXX-X-SJSA-FT000-EX / 2-144 Fibers

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)	2 - 72	1,000 (39)	700 (28)	278 (614)	1,000 (39)	914 (36)	1,121 (44)
	96	1,000 (39)	700 (28)	307 (678)	1,000 (39)	914 (36)	1,121 (44)
	144	1,150 (45)	850 (33)	410 (904)	1,150 (45)	1,067 (42)	1,271 (50)
10,000 (3,048)	2 - 72	1,150 (45)	850 (33)	474 (1,045)	1,150 (45)	1,067 (42)	1,271 (50)
	96	1,200 (47)	900 (35)	547 (1,206)	1,200 (47)	1,169 (46)	1,321 (52)
	144	1,200 (47)	1,000 (39)	706 (1,557)	1,219 (48)	1,219 (48)	1,321 (52)
20,000 (6,096)	2 - 72	1,300 (51)	1,000 (39)	846 (1,865)	1,300 (51)	1,219 (48)	1,421 (56)
	96	1,650 (65)	1,000 (39)	1,045 (2,304)	1,650 (65)	1,219 (48)	1,771 (70)
	144	1,770 (70)	1,000 (39)	1,373 (3,027)	1,770 (70)	1,219 (48)	1,891 (74)

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



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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	0.35/0.25	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-XXX-X-SJSA-FT000-EX

Fiber Count

002 - 2 Fibers
004 - 4 Fibers
006 - 6 Fibers
008 - 8 Fibers
012 - 12 Fibers
024 - 24 Fibers
036 - 36 Fibers
048 - 48 Fibers
060 - 62 Fibers
072 - 72 Fibers
096 - 96 Fibers
144 - 144 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

EX - Waveoptics® Slim Design
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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