



Single Jacket ADSS Cable Gel-Filled / PBT

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

Applications



Outdoor



Aerial



Duct Installation



Self-supporting



LIGHT

NESC Light



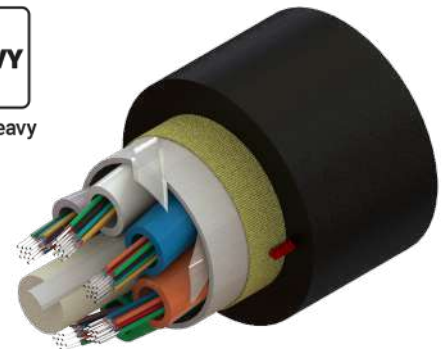
MEDIUM

NESC Medium



HEAVY

NESC Heavy



SINGLE-JACKET ADSS CABLE SPAN 450 FT 72F
G652.D FIBER FT

Protections



UV Resistant



Water Blocking

Description

Waveoptics® Single Jacket ADSS Cable is designed for self-supporting and duct applications for cable spans up to 1,050 feet, allowing an easy and cost-effective one-step installation using standard hardware and installation methods. Reduced weight design and smaller diameter allows the usage of smaller ducts.

Loose tubes are made of PBT which provide great mechanical properties under a wide range of conditions such as crush test and impact test, and are filled with water blocking gel for improved water resistant.

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.

Aramid yarns have an excellent performance against high tension for direct-aerial installations, aerial to duct transitions and can be used for other applications that require added tensile performance such as long duct pulls. No messenger cable is required for installation, and no metallic components are used in ADSS cables.

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.
- IEEE Std 1222 - 2019: Standard for Testing Performance for All-Dielectric Self-Supporting Fiber Optic Cable for use on Electric Utility Power Lines (requirements).
- IEC 60794: Basic requirements for optical fiber and cable elements (method).

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.

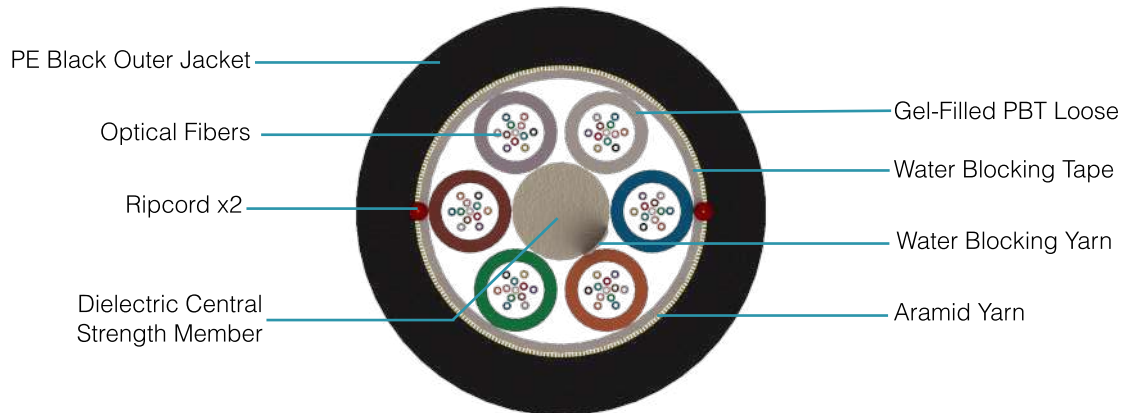
Folio PE-429-01-EN


Last Review 10/26/23

TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 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 / 1.55 mm (0.06 in)
Loose Tube Material / Diameter	PBT / 2.2 mm (0.09 in)
Drum Length	10,000 ft, 15,000 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)	3,000 N/100 mm / 1,500 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.

TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

NESC Installation Conditions

NESC LIGHT - 1% INSTALLATION SAG								
SPAN (ft) (m)	Fiber Count	Nominal Outer Diameter (mm) (in) (±5%)	Cable Weight (kg/km) (lb/kft) (±10%)	Maximum Rated Cable Load (MRCL) (N) (lbf)	Tension Strength (Unloaded) (N) (lbf)	SAG-Loaded (%)	Tension Strength (Loaded) (N) (lbf)	Dielectric Central Strength Member Diameter (mm) (in) (Without PE / with PE)
300 (91)	2-72	10.8 (0.43)	90 (60)	2,672 (600)	1,103 (248)	0.70	2,280 (513)	2.6 (0.1)
	96	11.9 (0.47)	109 (74)	2,558 (575)	1,336 (300)	0.80	2,447 (550)	2.6/3.7 (0.1 /0.15)
	144	15.1 (0.59)	175 (117)	3,938 (885)	2,143 (482)	0.80	3,664 (824)	3/6.9 (0.12 /0.27)
	192-216	15.8 (0.62)	193 (129)	4,235 (952)	2,362 (531)	0.80	3,983 (895)	2.6 (0.1)
	288	17.7 (0.70)	233 (157)	4,551 (1,023)	2,864 (644)	0.90	4,337 (975)	3/4.5 (0.12 / 0.18)
450 (137)	2-72	10.8 (0.43)	91 (61)	3,131 (704)	1,561 (351)	0.80	2,937 (660)	2.6 (0.1)
	96	12.0 (0.47)	114 (76)	3,856 (866)	1,950 (438)	0.80	3,534 (794)	2.6/3.7 (0.1 / 0.15)
	144	15.3 (0.60)	183(123)	5,463 (1,228)	3,143 (707)	0.80	5,326 (1,197)	3/6.9 (0.12 / 0.27)
	192-216	15.9 (0.63)	199 (133)	5,733 (1,288)	3,412 (767)	0.90	5,244 (1,179)	2.6 (0.1)
	288	17.8 (0.70)	241 (162)	6,335 (1,424)	4,136 (930)	0.90	6,222 (1,399)	3/4.5 (0.12 / 0.18)
600 (183)	2-72	11 (0.43)	97 (65)	4,510 (1,014)	2,260 (508)	0.80	4,101 (922)	2.6 (0.1)
	96	12.1 (0.48)	118 (79)	5,154 (1,158)	2,755 (619)	0.80	4,847 (1,090)	2.6/3.7 (0.1 / 0.15)
	144	15.4 (0.61)	190 (128)	7,370 (1,656)	4,429 (996)	0.90	6,709 (1,508)	2.6/3.7 (0.1 / 0.15)

TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

NESC Installation Conditions

NESC LIGHT - 1% INSTALLATION SAG								
SPAN (ft) (m)	Fiber Count	Nominal Outer Diameter (mm) (in) (±5%)	Cable Weight (kg/km) (lb/kft) (±10%)	Maximum Rated Cable Load (MRCL) (N)(lbf)	Tension Strength (unloaded) (N)(lbf)	SAG-Loaded (%)	Tension Strength (loaded) (N) (lbf)	Dielectric Central Strength Member Diameter (mm) (in) (Without PE/with PE)
750 (229)	2-72	11.1 (0.44)	100 (68)	5,429 (1,220)	2,836 (638)	0.80	5,039 (1,133)	2.6 (0.1)
	96	12.2 (0.48)	122 (82)	6,019 (1,353)	3,439 (773)	0.80	5,942 (1,336)	2.6/3.7 (0.1/0.15)
	144	15.4 (0.61)	190 (128)	7,370 (1,656)	5,362 (1,205)	1.10	6,951 (1,563)	2.6/3.7 (0.1/0.15)
900 (274)	2-72	11.2 (0.44)	105 (71)	6,808 (1,530)	3,607 (811)	0.80	6,344 (1,426)	2.6 (0.1)
	96	12.3 (0.48)	126 (85)	7,173 (1,612)	4,336 (975)	0.90	6,835 (1,537)	2.6/3.7 (0.1/0.15)
1,050 (320)	2-72	11.3 (0.44)	108 (73)	7,574 (1,702)	4,250 (955)	0.80	7,368 (1,656)	2.6 (0.1)
	96	12.4 (0.49)	129 (87)	7,750 (1,742)	5,077 (1,141)	1.00	7,336 (1,649)	2.6/3.7 (0.1/0.15)

TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

NESC Installation Conditions

NESC MEDIUM- 1% INSTALLATION SAG								
SPAN (ft) (m)	Fiber Count	Nominal Outer Diameter (mm) (in) (±5%)	Cable Weight (kg/km) (lb/kft) (±10%)	Maximum Rated Cable Load (MRCL) (N)(lbf)	Tension Strength (unloaded) (N)(lbf)	SAG-loaded (%)	Tension Strength (loaded) (N) (lbf)	Dielectric Central Strength Member Diameter (mm) (in) (without PE / with PE)
300 (91)	2-72	10.8 (0.43)	91 (61)	3,131 (704)	1,115 (251)	2.80	2,656 (597)	2.6 (0.1)
	96	11.9 (0.47)	110 (74)	2,990 (672)	1,348 (303)	2.80	2,869 (645)	2.6/3.7 (.1/0.15)
	144	15.1 (0.59)	175 (117)	3,938 (885)	2,143 (482)	2.50	3,833 (862)	3/6.9 (0.12/0.27)
	192-216	15.8 (0.62)	193 (129)	4,235 (952)	2,362 (531)	2.50	4,010 (901)	2.6 (0.1)
	288	17.7 (0.70)	234 (157)	4,908 (1,103)	2,876 (646)	2.40	4,598 (1,034)	3/4.5 (0.12 / 0.18)
450 (137)	2-72	10.9 (0.43)	94 (63)	4,051 (911)	1,621 (364)	2.80	3,756 (844)	2.6 (0.1)
	96	12 (0.47)	114 (77)	4,288 (964)	1,967 (442)	2.80	4,061 (913)	2.6/3.7 (0.1/0.15)
	144	15.3 (0.60)	184 (124)	5,845 (1,314)	3,159 (710)	2.50	5,465 (1,229)	3/6.9 (0.12 / 0.27)
	192-216	15.9 (0.63)	199 (133)	5,733 (1,288)	3,412 (767)	2.60	5,512 (1,239)	2.6 (0.1)
	288	17.8 (0.70)	241 (162)	6,335 (1,424)	4,136 (930)	2.60	6,121 (1,376)	3/4.5 (0.12/0.18)
600 (183)	2-72	11.1 (0.44)	100 (68)	5,429 (1,220)	2,343 (527)	2.80	5,109 (1,149)	2.6 (0.1)
	96	12.2 (0.48)	121 (81)	5,586 (1,256)	2,819 (634)	2.80	5,522 (1,241)	2.6/3.7 (0.1/0.15)
	144	15.4 (0.61)	189 (127)	7,116 (1,599)	4,415 (992)	2.80	6,799 (1,528)	3/6.9 (0.12/0.27)

TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

NESC Installation Conditions

NESC MEDIUM- 1% INSTALLATION SAG								
SPAN (ft) (m)	Fiber Count	Nominal Outer Diameter (mm) (in) (±5%)	Cable Weight (kg/km) (lb/kft) (±10%)	Maximum Rated Cable Load (MRCL) (N)(lbf)	Tension Strength (unloaded) (N)(lbf)	SAG-loaded (%)	Tension Strength (Loaded) (N)(lbf)	Dielectric Central Strength Member Diameter (mm) (in) (without PE / with PE)
750 (229)	2-72	11.2 (0.44)	104 (70)	6,348 (1,427)	2,936 (660)	2.80	6,170 (1,387)	2.6 (0.1)
	96	12.3 (0.48)	126 (84)	6,884 (1,547)	3,544 (797)	2.80	6,678 (1,501)	2.6/3.7 (0.1/0.15)
900 (274)	2-72	11.4 (0.45)	111 (74)	7,880 (1,771)	3,798 (854)	2.80	7,656 (1,721)	2.6 (0.1)
	96	12.4 (0.49)	129 (87)	7,750 (1,742)	4,443 (999)	3.20	7,474 (1,680)	2.6/3.7 (0.1/0.15)

TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers


NESC Installation Conditions

NESC HEAVY - 1% INSTALLATION SAG								
SPAN (ft) (m)	Fiber Count	Nominal Outer Diameter (mm) (in) (±5%)	Cable Weight (kg/km) (lb/kft) (±10%)	Maximum Rated Cable Load (MRCL) (N) (lbf)	Tension Strength (unloaded) (N) (lbf)	SAG-Loaded (%)	Tension Strength (loaded) (N) (lbf)	Dielectric Central Strength Member Diameter (mm) (in) (Without PE / with PE)
300 (91)	2-72	10.9 (0.43)	94 (63)	4,051 (960)	1,158 (260)	4.00	3,929 (883)	2.6 (0.1)
	96	12.0 (0.47)	114 (76)	4,288 (964)	1,405 (316)	4.00	4,147 (932)	2.6/3.7 (0.1/0.15)
	144	15.2 (0.60)	180 (121)	5,082 (1,142)	2,206 (496)	4.00	4,800 (1,079)	3/6.9 (0.12/0.27)
	192-216	15.9 (0.63)	198 (133)	5,358 (1,204)	2,426 (545)	4.00	4,955 (1,114)	2.6 (0.1)
	288	17.7 (0.70)	236 (159)	5,622 (1,263)	2,899 (652)	4.00	5,328 (1,198)	3/4.5 (0.12/0.18)
450 (137)	2-72	11.1 (0.44)	101 (68)	5,889 (1,324)	1,742 (392)	4.00	5,571 (1,252)	2.6 (0.1)
	96	12.2 (0.48)	122 (82)	6,019 (1,353)	2,094 (471)	4.00	5,877(1,321)	2.6/3.7 (0.1/0.15)
	144	15.4 (0.61)	189 (127)	6,861 (1,542)	3,242 (729)	4.00	6,799 (1,528)	3/6.9 (0.12/0.27)
	192-216	16.0 (0.63)	204 (137)	6,856 (1,541)	3,502 (787)	4.20	6,736 (1,514)	2.6 (0.1)
600 (183)	2-72	11.4 (0.45)	111 (68)	7,880 (1,771)	2,577 (579)	4.00	7,592 (1,707)	2.6 (0.1)
	96	12.4 (0.49)	129 (87)	7,750 (1,742)	3,015 (678)	4.20	7,688 (1,728)	2.6/3.7 (0.1/0.15)

TECHNICAL DATA SHEET OUTDOOR CABLE

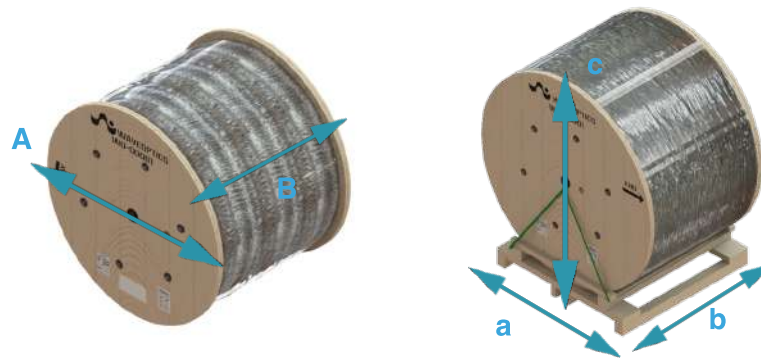
FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

Printed Information on Outer Jacket

= /MONTH//YEAR/WAVEOPTICS OPTICAL CABLE= =/SPAN/FT= = /NESC/ = =  = =/FIBERTYPE/= =/FIBERCOUNT/= =/XXXX/*= =/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

Drum Dimensions and Pallet Packaging Information



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

Folio PE-429-01-EN

Last Review 10/26/23

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TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-XXX-X-SSSJXXX-FT002 / 2-288 Fibers

Transmission Performance by Fiber Type

Fiber Type	Single Mode		
Waveoptics® Fiber Type	G652.D	G657.A1	G657.A2
Waveoptics® Fiber Code	F	T	E
OFS® Fiber Type	G652.D	-	-
OFS® Fiber Code	1	-	-
Wavelength (nm)	1310/1550		
Max.attn. (dB/km) (1)	0.36/0.25	0.36/0.25	0.35/0.25
Cable Marking Specifications	G652.D	G657.A1	G657.A2
Notes: (1) Maximum attenuation after cabling process			

Part Number Configuration

FOSPC-XXX-X-SSSJXXX-FT002

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 - 60 Fibers
 072 - 72 Fibers
 096 - 96 Fibers
 144 - 144 Fibers
 192 - 192 Fibers
 216 - 216 Fibers
 288 - 288 Fibers

Waveoptics® Fiber Type

F - SM G652.D
 T - SM G657.A1
 E - SM G657.A2

OFS® Fiber Type

1 - SM G652.D

SPAN

1 - 300 ft
 1D - 450 ft
 1I - 600 ft
 2C - 750 ft
 2H - 900 ft
 3B - 1,050 ft

NESC

N/A - Light
 M - Medium
 V - Heavy

Note: please contact your Waveoptics® distributor if you need any additional compliance or if you have questions about the part number configuration.