Single Jacket ADSS Slim Cable / PP

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

Description

Waveoptics Single Jacket ADSS Slim 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.

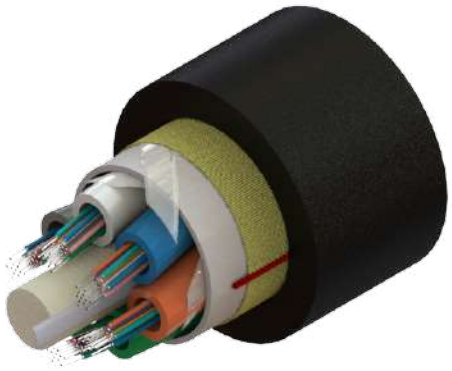
Loose tubes made of PP are more flexible and allow an easier installation and routing, and are filled with water blocking gel.

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.

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.



SJ ADSS SLIM CABLE SPAN 450 FT
72F G652D DFT000 S EX

Quality

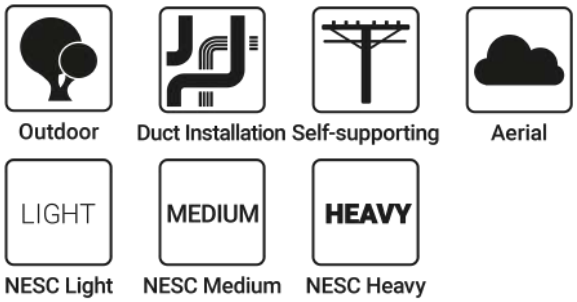
Waveoptics is a ISO-9001: 2015 certified company.

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.

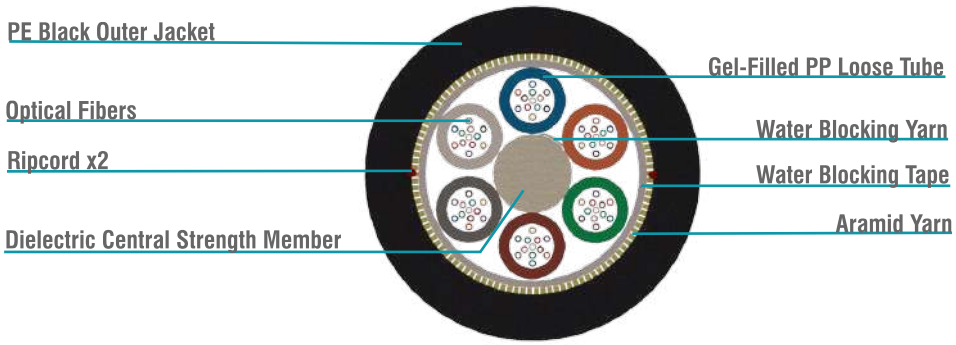
Applications:



Protections:

Dimensions and Properties

FOSPC-XXX-X-SSSJXXX-FT000-EX / 2-144 fibers



Design	
Fiber per tube	2 - 12
Fiber color code / loose tube color code	1 2 3 4 5 6 7 8 9 10 11 12
Dielectric central strength member	FRP
Outer jacket material / thickness	Polyethylene / 1.55 mm (0.06 in)
Loose tube material / diameter	PP / 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)	2,200 N/100mm / 1,100 N/100mm
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.

NESC Installation Conditions

FOSPC-XXX-X-SSSJXXX-FT000-EX / 2-144 fibers

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)	91 (61)	3,727 (838)	1,112 (250)	0.7	2,854 (642)	2.6 (0.1)
	96	11.9 (0.47)	103 (69)	3,963 (891)	1,256 (282)	0.7	3,116 (701)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	162 (109)	5,700 (1,281)	1,986 (446)	0.7	4,189 (942)	3 / 6.9 (0.12 / 0.27)
450 (137)	2-72	10.8 (0.43)	91 (61)	3,727 (838)	1,556 (350)	0.8	3,496 (786)	2.6 (0.1)
	96	11.9 (0.47)	103 (69)	3,963 (891)	1,759 (395)	0.8	3,817 (858)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	162 (109)	5,700 (1,281)	2,780 (625)	0.8	5,131 (1,154)	3 / 6.9 (0.12 / 0.27)
600 (183)	2-72	10.8 (0.43)	92 (62)	4,864 (1,094)	2,141 (481)	0.8	4,765 (1,071)	2.6 (0.1)
	96	11.9 (0.47)	104 (70)	5,319 (1,196)	2,420 (544)	0.8	5,205 (1,170)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	163 (110)	7,041 (1,583)	3,803 (855)	0.8	6,989 (1,571)	3 / 6.9 (0.12 / 0.27)
750 (229)	2-72	10.8 (0.43)	93 (63)	5,860 (1,317)	2,623 (590)	0.8	5,790 (1,302)	2.6 (0.1)
	96	11.9 (0.47)	105 (71)	6,374 (1,433)	2,960 (665)	0.8	6,323 (1,422)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	165 (111)	8,549 (1,922)	4,644 (1,044)	0.8	8,495 (1,910)	3 / 6.9 (0.12 / 0.27)
900 (274)	2-72	10.9 (0.43)	95 (64)	7,283 (1,637)	3,248 (730)	0.8	7,119 (1,600)	2.6 (0.1)
	96	12 (0.47)	107 (72)	7,882 (1,772)	3,658 (822)	0.8	7,770 (1,747)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	167 (112)	10,560 (2,374)	5,718 (1,285)	0.8	10,397 (2,337)	3 / 6.9 (0.12 / 0.27)
1,050 (320)	2-72	11 (0.43)	96 (64)	8,361 (1,880)	3,749 (843)	0.8	8,199 (1,843)	2.6 (0.1)
	96	12 (0.47)	108 (72)	9,188 (2,065)	4,224 (950)	0.8	8,912 (2,003)	2.6 / 3.7 (0.1 / 0.15)
	144	15.2 (0.60)	168 (113)	12,213 (2,745)	6,585 (1,480)	0.8	11,960 (2,689)	3 / 6.9 (0.12 / 0.27)

NESC Installation Conditions

FOSPC-XXX-X-SSSJXXX-FT000-EX / 2-144 fibers

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)	3,727 (838)	1,112 (250)	3.2	2,845 (640)	2.6 (0.1)
	96	11.9 (0.47)	103 (69)	3,963 (891)	1,256 (282)	2.8	3,415 (768)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	162 (109)	5,700 (1,281)	1,986 (446)	2.4	4,632 (1,041)	3 / 6.9 (0.12 / 0.27)
450 (137)	2-72	10.8 (0.43)	91 (61)	4,153 (934)	1,564 (352)	3.2	3,984 (896)	2.6 (0.1)
	96	11.9 (0.47)	103 (70)	4,867 (1,094)	1,775 (399)	2.8	4,784 (1,076)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	163 (110)	6,705 (1,507)	2,797 (629)	2.4	6,489 (1,459)	3 / 6.9 (0.12 / 0.27)
600 (183)	2-72	10.8 (0.43)	93 (62)	5,575 (1,253)	2,160 (486)	3.2	5,413 (1,217)	2.6 (0.1)
	96	11.9 (0.47)	105 (71)	6,675 (1,501)	2,453 (551)	2.8	6,502 (1,462)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	165 (111)	8,884 (1,997)	3,843 (864)	2.4	8,818 (1,982)	3 / 6.9 (0.12 / 0.27)
750 (229)	2-72	10.9 (0.43)	94 (63)	6,714 (1,509)	2,650 (596)	3.2	6,584 (1,480)	2.6 (0.1)
	96	12 (0.47)	107 (72)	8,033 (1,806)	3,009 (677)	2.8	7,908 (1,778)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	167 (112)	10,808 (2,430)	4,697 (1,056)	2.4	10,686 (2,402)	3 / 6.9 (0.12 / 0.27)
900 (274)	2-72	11 (0.43)	96 (64)	8,361 (1,880)	3,280 (737)	3.2	8,055 (1,811)	2.6 (0.1)
	96	12.1 (0.48)	108 (73)	9,820 (2,208)	3,718 (836)	2.8	9,673 (2,174)	2.6 / 3.7 (0.1 / 0.15)
	144	15.2 (0.60)	169 (113)	13,265 (2,982)	5,794 (1,303)	2.4	13,070 (2,938)	3 / 6.9 (0.12 / 0.27)
1,050 (320)	2-72	11 (0.43)	97 (65)	9,551 (2,147)	3,799 (854)	3.2	9,215 (2,072)	2.6 (0.1)
	96	12.1 (0.48)	110 (74)	11,396 (2,562)	4,311 (969)	2.8	11,067 (2,488)	2.6 / 3.7 (0.1 / 0.15)
	144	15.3 (0.60)	171 (115)	15,370 (3,455)	6,696 (1,505)	2.4	15,004 (3,373)	3 / 6.9 (0.12 / 0.27)

NESC Installation Conditions

FOSPC-XXX-X-SSSJXXX-FT000-EX / 2-144 fibers

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	10.8 (0.43)	91 (61)	3,869 (870)	1,113 (250)	4.4	3,760 (845)	2.6 (0.1)
	96	11.9 (0.47)	103 (69)	4,566 (1,026)	1,264 (284)	3.9	4,404 (990)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	163 (109)	6,203 (1,394)	1,992 (448)	3.2	6,026 (1,355)	3 / 6.9 (0.12 / 0.27)
450 (137)	2-72	10.8 (0.43)	93 (62)	5,433 (1,221)	1,589 (357)	4.4	5,269 (1,184)	2.6 (0.1)
	96	11.9 (0.47)	105 (70)	6,223 (1,399)	1,799 (404)	3.9	6,171 (1,387)	2.6 / 3.7 (0.1 / 0.15)
	144	15.1 (0.59)	165 (111)	8,549 (1,922)	2,827 (635)	3.2	8,445 (1,899)	3 / 6.9 (0.12 / 0.27)
600 (183)	2-72	10.9 (0.43)	95 (64)	7,283 (1,637)	2,204 (495)	4.4	7,179 (1,614)	2.6 (0.1)
	96	12 (0.47)	107 (72)	8,557 (1,924)	2,493 (561)	3.9	8,409 (1,890)	2.6 / 3.7 (0.1 / 0.15)
	144	15.2 (0.60)	168 (113)	11,862 (2,667)	3,902 (877)	3.2	11,507 (2,587)	3 / 6.9 (0.12 / 0.27)
750 (229)	2-72	11 (0.43)	96 (65)	8,956 (2,013)	2,712 (610)	4.4	8,724 (1,961)	2.6 (0.1)
	96	12.1 (0.48)	109 (73)	10,450 (2,349)	3,072 (691)	3.9	10,218 (2,297)	2.6 / 3.7 (0.1 / 0.15)
	144	15.3 (0.60)	170 (114)	14,318 (3,219)	4,786 (1,076)	3.2	13,980 (3,143)	3 / 6.9 (0.12 / 0.27)
900 (274)	2-72	11.1 (0.44)	98 (66)	10,743 (2,415)	3,367 (757)	4.4	10,662 (2,397)	2.6 (0.1)
	96	12.2 (0.48)	111 (75)	12,658 (2,846)	3,815 (858)	3.9	12,489 (2,808)	2.6 / 3.7 (0.1 / 0.15)
	144	15.4 (0.61)	174 (117)	17,467 (3,927)	5,957 (1,339)	3.2	17,094 (3,843)	3 / 6.9 (0.12 / 0.27)
1,050 (320)	2-72	11.2 (0.44)	100 (67)	12,529 (2,817)	3,922 (882)	4.4	12,233 (2,750)	2.6 (0.1)
	96	12.3 (0.48)	114 (77)	14,543 (3,269)	4,472 (1,005)	3.9	14,335 (3,223)	2.6 / 3.7 (0.1 / 0.15)
	144	15.5 (0.61)	176 (118)	20,050 (4,507)	6,907 (1,553)	3.2	19,609 (4,408)	3 / 6.9 (0.12 / 0.27)

Notes:

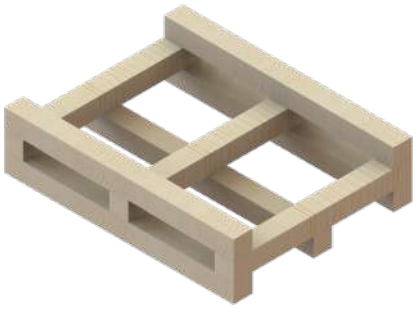
- Custom designs for longer span lengths available upon request.
- MRCL calculated for a maximum fiber strain of 0.2%.

Printed Information on Outer Jacket

=/MONTH//YEAR/ WAVEOPTICS= =SSSJ= =/SPAN XXXX/FT= =/NESC/= =PP= =/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.
- *The standard marking interval is every 2 feet, in case the marking requirement is in meters, a notification on the purchase order would be necessary.

Drum Dimensions and Pallet Packaging Information



Notes:

- The cable is wound in a wooden drum covered with wood lagging, strapped to a wooden pallet, as shown in the images above.
- Please contact your sales agent for information about the total packaging dimensions and weight, as well as for higher fiber counts and different drum lengths available.

*Note: 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.

Transmission Performance by Fiber Type

FOSPC-XXX-X-SSSJXXX-FT000-EX / 2-144 fibers

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	AllWave® FLEX+	TrueWave® LA	62.5 um Laser Optimized	50 um Graded Index	LaserWave® FLEX 300	LaserWave® FLEX 550
OFS® fiber code	1	2	3	7	5	8	9	0
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/s at 850 nm transmissions based on IEEE 802.3z test protocol.
(4) 10-Gb/s at 850 nm transmissions based on IEEE 802.3ae test protocol.
(5) 40/100-Gb/s at 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-SSSJXXX-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 - 60 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
3 - AllWave® FLEX+
7 - TrueWave® LA
5 - 62.5 um Laser Optimized
8 - 50 um Graded Index
9 - LaserWave® FLEX 300
0 - LaserWave® FLEX 550

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

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.