



# Loose Tube All-Dielectric Cable Dry / PP

## FOSPC-XXX-X-SJADD-FT000-US/ 2-432 Fibers

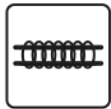
### Applications



Outdoor



Duct Installation

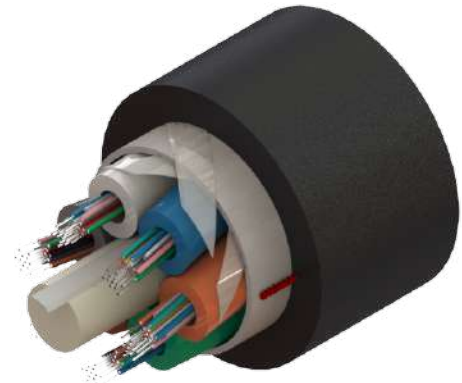


Lashed



Air Blown Fiber

### Protections

UV  
ResistantWater  
Blocking

LOOSE TUBE ALL-DIELECTRIC CABLE DRY

72F G652.D FIBER FT

### Description

Loose tube all-dielectric cables dry are the most commonly-deployed outdoor cables, because of its price and its installation flexibility, since these cables can be installed both in aerial (lashed) installations as well as in ducts through the following techniques: air-blown, jetted or pulled into a duct.

Loose tubes made of PP are more flexible and allow an easier installation and routing. Dry water blocking technology allows a cleaner and quicker installation as well as a cost-friendly cable preparation.

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.

### 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.

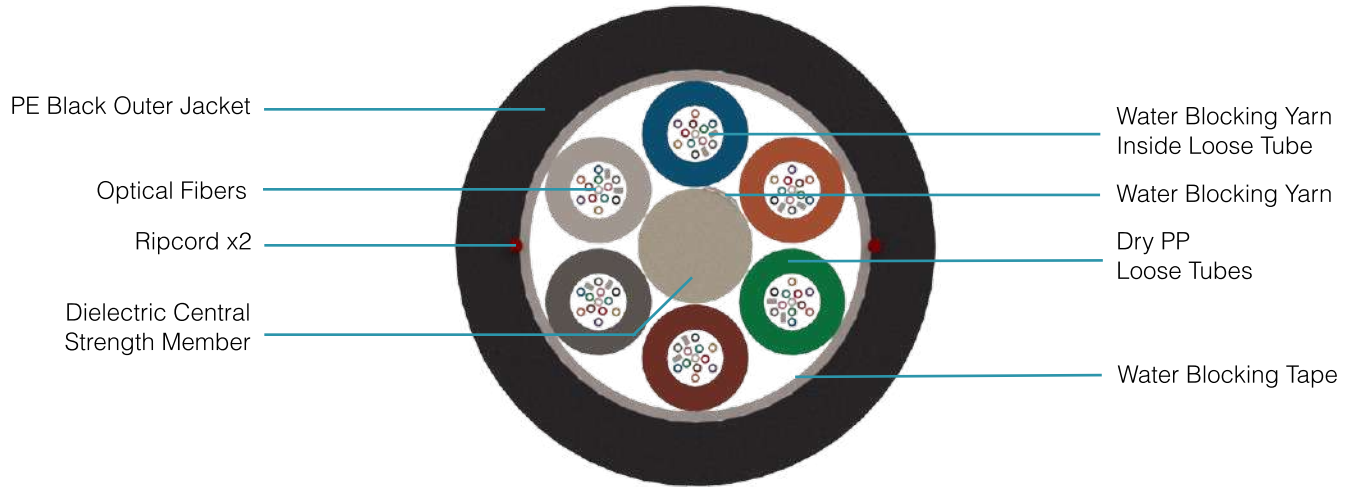
Folio PE-388-01-EN


Last Review 7/13/2023

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-XXX-X-SJADD-FT000-US/ 2-432 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 / 1.5 mm (0.06 in)  |
| Loose Tube Material / Diameter                 | PP / 2.5 mm (0.1 in)   |
| Drum Length                                    | 5,000 ft, 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/100 mm 1,100 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.

**Folio PE-388-01-EN**

**Last Review 7/13/2023**

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-XXX-X-SJADD-FT000-US/ 2-432 Fibers

## Dimensions & Properties

| Fiber Count | Loose Tube / Fillers | Cable Weight (kg/km) (lb/kft) ( $\pm 10\%$ ) | Tensile Strength (N) (lbf) Long-Term/Short-Term | Nominal Outer Dimensions (mm) (in) ( $\pm 5\%$ ) | Dielectric Central Strength Member Diameter (mm) (in) (Without PE / With PE) |
|-------------|----------------------|--|---|--|--|
| 2 - 12      | 1/5                  | 94 (63)                                      | 890 / 2,700 (200/607)                           | 11.1 (0.44)                                      | 2.6 (0.1)  |
| 24          | 2/4                  | 94 (63)                                      | 890 / 2,700 (200/607)                           | 11.1 (0.44)                                      | 2.6 (0.1)  |
| 36          | 3/3                  | 94 (63)                                      | 890 / 2,700 (200/607)                           | 11.1 (0.44)                                      | 2.6 (0.1)  |
| 48          | 4/2                  | 94 (63)                                      | 890 / 2,700 (200/607)                           | 11.1 (0.44)                                      | 2.6 (0.1)  |
| 60          | 5/1                  | 94 (63)                                      | 890 / 2,700 (200/607)                           | 11.1 (0.44)                                      | 2.6 (0.1)  |
| 72          | 6/0                  | 94 (63)                                      | 890 / 2,700 (200/607)                           | 11.1 (0.44)                                      | 2.6 (0.1)  |
| 96          | 8/0                  | 99 (66)                                      | 890 / 2,700 (200/607)                           | 12.7 (0.5)                                       | 3 / 4.2 (0.12 / 0.17)  |
| 144         | 12/0                 | 158 (106)                                    | 890 / 2,700 (200/607)                           | 15.9 (0.63)                                      | 3 / 7.4 (0.12 / 0.29)  |
| 192         | 16/2                 | 166 (111)                                    | 890 / 2,700 (200/607)                           | 16.6 (0.65)                                      | 2.6 (0.1)  |
| 216         | 18/0                 | 166 (111)                                    | 890 / 2,700 (200/607)                           | 16.6 (0.65)                                      | 2.6 (0.1)  |
| 288         | 24/0                 | 194 (130)                                    | 890 / 2,700 (200/607)                           | 19 (0.75)  | 3 / 5 (0.12/0.2)   |
| 432         | 36/0                 | 236 (159)                                    | 890 / 2,700 (200/607)                           | 22.1 (0.9)                                       | 2.6 (0.1)  |

## Printed Information on Outer Jacket

= /MONTH//YEAR/ WAVEOPTICS OPTICAL CABLE == SJADD== 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

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[www.waveoptics.net](http://www.waveoptics.net)

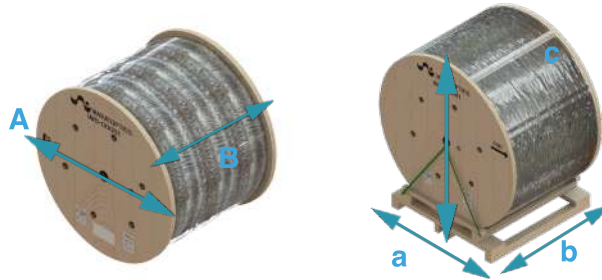
[info@waveoptics.net](mailto:info@waveoptics.net)

# TECHNICAL DATA SHEET

## OUTDOOR CABLE

FOSPC-XXX-X-SJADD-FT000-US/ 2-432 Fibers

### Drum Dimensions and Pallet Packaging Information



| Drum Length<br>(ft) (m) (±5%) | Fiber Count | A<br>(mm) (in) (± 5%) | B<br>(mm) (in) (± 5%) | Drum and Pallet<br>Total Weight<br>(kg) (lb) (± 10%) | Total Packaging (±5%) |                |                |
|-------------------------------|-------------|-----------------------|-----------------------|--|-----------------------|----------------|----------------|
|                               |             |                       |                       |  | a<br>(mm) (in)        | b<br>(mm) (in) | c<br>(mm) (in) |
| 5,000 (1,524)                 | 2 - 72      | 1,000 (39)            | 780 (31)              | 252 (556)  | 965 (38)              | 914 (36)       | 1,121 (44)     |
|                               | 96          | 1,000 (39)            | 780 (31)              | 260 (573)  | 965 (38)              | 914 (36)       | 1,121 (44)     |
|                               | 144         | 1,200 (47)            | 980 (39)              | 392 (864)  | 1,016 (40)            | 1,168 (46)     | 1,340 (53)     |
|                               | 192 - 216   | 1,200 (47)            | 980 (39)              | 404 (891)  | 1,016 (40)            | 1,168 (46)     | 1,340 (53)     |
|                               | 288         | 1,250 (49)            | 1,100 (43)            | 462 (1,019)  | 1,219 (48)            | 1,219 (48)     | 1,390 (55)     |
|                               | 432         | 1,470 (58)            | 1,100 (43)            | 577 (1,272)  | 1,219 (48)            | 1,219 (48)     | 1,610 (63)     |
| 10,000 (3,048)                | 2 - 72      | 1,150 (45)            | 930 (37)              | 422 (931)  | 965 (38)              | 1,067 (42)     | 1,271 (50)     |
|                               | 96          | 1,200 (47)            | 1,030 (41)            | 303 (668)  | 1,016 (40)            | 1,168 (46)     | 1,340 (53)     |
|                               | 144         | 1,470 (58)            | 1,000 (39)            | 700 (1,543)  | 1,470 (58)            | 1,219 (48)     | 1,591 (63)     |
|                               | 192 - 216   | 1,650 (65)            | 1,000 (39)            | 755 (1,665)  | 1,650 (65)            | 1,219 (48)     | 1,771 (70)     |
|                               | 288         | 1,650 (65)            | 1,000 (39)            | 841 (1,853)  | 1,650 (65)            | 1,219 (48)     | 1,771 (70)     |
|                               | 432         | 1,770 (70)            | 1,000 (39)            | 1,032 (2,274)  | 1,770 (70)            | 1,219 (48)     | 1,891 (74)     |
| 15,000 (4,572)                | 2 - 72      | 1,200 (47)            | 1,100 (43)            | 158  | 1,219 (48)            | 1,219 (48)     | 1,340 (53)     |
|                               | 96          | 1,470 (58)            | 1,000 (39)            | 671 (1,479)  | 1,470 (58)            | 1,219 (48)     | 1,591 (63)     |
|                               | 144         | 1,650 (65)            | 1,219 (48)            | 975 (2,149)  | 1,650 (65)            | 1,219 (48)     | 1,771 (70)     |
|                               | 192 - 216   | 1,770 (70)            | 1,000 (39)            | 1,030 (2,271)  | 1,770 (70)            | 1,219 (48)     | 1,891 (74)     |
|                               | 288         | 2,060 (81)            | 974 (38)              | 1,219 (2,259)  | 2,060 (81)            | 1,219 (48)     | 2,181 (86)     |
| 20,000 (6,096)                | 2 - 72      | 1,470 (58)            | 1,000 (39)            | 791 (1,744)  | 1,470 (58)            | 1,219 (48)     | 1,591 (63)     |
|                               | 96          | 1,650 (65)            | 1,219 (48)            | 856 (1,887)  | 1,650 (65)            | 1,219 (48)     | 1,771 (70)     |
|                               | 144         | 1,950 (77)            | 1,000 (39)            | 1,227 (2,704)  | 1,950 (77)            | 1,219 (48)     | 2,071 (82)     |
|                               | 192 - 216   | 2,060 (81)            | 974 (38)              | 1,342 (2,959)  | 2,060 (81)            | 1,219 (48)     | 2,181 (86)     |

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-388-01-EN**

**Last Review 7/13/2023**

# TECHNICAL DATA SHEET OUTDOOR CABLE

FOSPC-XXX-X-SJADD-FT000-US/ 2-432 Fibers

## Transmission Performance by Fiber Type

| Fiber Type   | Single Mode |           |         |           |
|--|-------------|-----------|---------|-----------|
|  | G652.D      | G657.A1   | G657.A2 | G655.C    |
| Waveoptics® Fiber Type                                   | G652.D      | G657.A1   | G657.A2 | G655.C    |
| Waveoptics® Fiber Code                                   | F           | T         | E       | G         |
| OFS® Fiber Type  | G652.D      | -         | -       | -         |
| OFS® Fiber Code  | 1           | -         | -       | -         |
| Wavelength (nm)  | 1310/1550   |           |         | 1550/1625 |
| Max.attn. (dB/km) (1)                                    | 0.36/0.25   | 0.36/0.25 | 0.4/0.3 | 0.25/0.27 |
| Min. Bandwidth (MHz*km) (2)                              | -           |           |         |           |
| 1-Gigabit Ethernet Distance (m) (3)                      | -           |           |         |           |
| 10-Gigabit Ethernet Distance (m) (4)                     | -           |           |         |           |
| 40/100-Gigabit Ethernet Distance (m) (5)                 | -           |           |         |           |
| Cable Marking Specifications                             | G652.D      | G657.A1   | G657.A2 | G655.C    |
| Notes:<br>(1) Maximum attenuation after cabling process. |             |           |         |           |

## Part Number Configuration

# FOSPC-XXX-X-SJADD-FT000-US

### 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 Fiber  
192- 192 Fibers  
216- 216 Fibers  
288- 288 Fibers  
432- 432 Fibers

### Waveoptics Fiber Type

F - SM G652.D  
T - SM G657.A1  
E - SM G657.A2  
G - SM G655.C

### OFS® Fiber Type

1 - SM G652.D

### 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.

**Folio PE-388-01-EN**

**Last Review 7/13/2023**