



Loose Tube Gel-Free Single-Armored Figure 8 Slim Cable / PBT

FOSPC-XXX-X-F8SJSADX-FT002-EX / 2-288 Fibers

Description

Waveoptics Loose Tube Gel-Free Single-Armored Figure 8 Slim Cable is designed for self-supporting applications. Galvanized steel messenger composed of 7 steel wire strands is incorporated. Messenger diameters of 1/4" and 3/16" are available.

Easy one-step installation with standard hardware and installation methods. Self-supporting design requires no lashing, reducing installation time and costs.

Loose tubes are made of PBT which provide great mechanical properties under a wide range of conditions such as crush test and impact test. Gel-free 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.

Two ripcords ensure a quick fiber access.

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



LT DRY SA F8 SLIM CABLE 1/4"
288F G652D DFT002 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:



Outdoor



Aerial



Self-supporting



LIGHT

NESC Light



MEDIUM

NESC Medium



HEAVY

NESC Heavy

Protections:



Water Blocking



UV Resistant



Impact Resistant

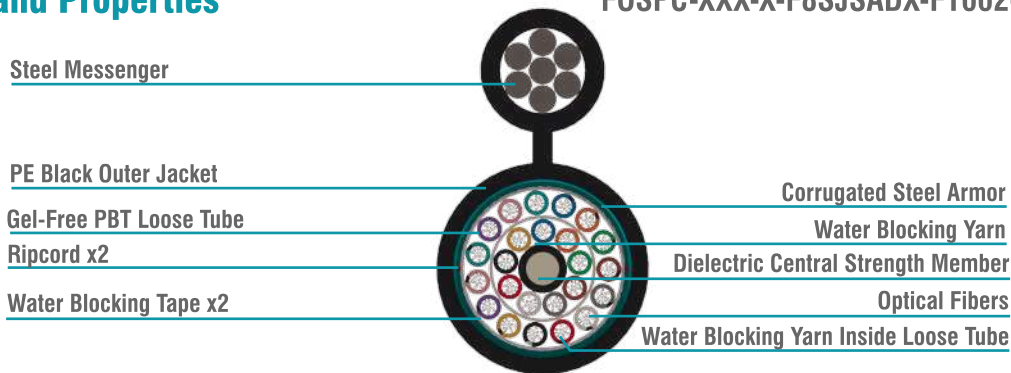



Crush Resistant



Rodent Resistant

Dimensions and Properties

FOSPC-XXX-X-F8SJSADX-FT002-EX / 2-288 fibers


| Design | |
|---|---|
| Fiber per tube | 2 - 12 |
| Fiber color code / loose tube color code |  |
| Messenger material / diameter | Galvanized steel / 1/4" & 3/16" |
| Outer jacket material / thickness | Polyethylene / 1.2 mm (0.05 in) |
| Loose tube material / diameter | PBT / 1.9 mm (0.07 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 |
| Tensile strength without messenger (N) (lbf) long-term / short-term | 890 / 2,700 (200 / 607) |
| Messenger breaking strength (1/4" / 3/16") (N) (lbf) | 26,143 (5,877) / 14,929 (3,356) |

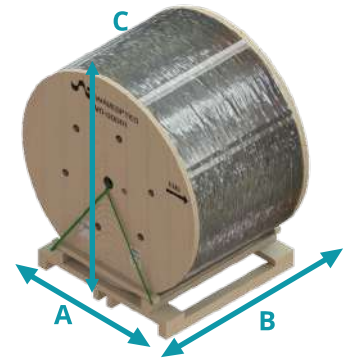
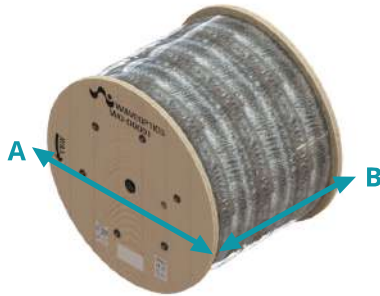
Note: Waveoptics recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

| Messenger diameter | Fiber count | Cable weight (kg/km) (lb/kft) (±10%) | Nominal outer dimensions (mm) (in) (±5%) | Maximum span (ft/m) (NESC Light / Medium / Heavy) | Dielectric central strength member diameter (mm) (in) (Without PE / With PE) |
|--------------------|-------------|--------------------------------------|--|---|--|
| 1/4" | 2 - 72 | 318 (213) | 9.9 x 21.42 (0.39 x 0.84) | 489 (1,604) / 187 (614) / 157 (515) | 2 (0.08) |
| | 96 | 340 (229) | 11.1 x 22.63 (0.44 x 0.89) | 454 (1,490) / 178 (584) / 147 (482) | 3.2 (0.13) |
| | 144 | 384 (258) | 13.4 x 24.93 (0.53 x 0.98) | 438 (1,437) / 169 (554) / 138 (453) | 3 / 5.5 (0.12 / 0.22) |
| | 192 - 216 | 388 (261) | 14.2 x 25.74 (0.56 x 1.01) | 391 (1,283) / 160 (525) / 131 (430) | 2 (0.08) |
| | 288 | 431 (290) | 15.9 x 27.44 (0.63 x 1.08) | 354 (1,161) / 148 (486) / 121 (397) | 2.6 / 3.7 (0.1 / 0.15) |
| 3/16" | 2 - 72 | 238 (160) | 9.9 x 19.86 (0.39 x 0.78) | 346 (1,135) / 117 (384) / 94 (308) | 2 (0.08) |
| | 96 | 260 (175) | 11.1 x 21.06 (0.44 x 0.83) | 315 (1,033) / 111 (364) / 89 (292) | 3.2 (0.13) |
| | 144 | 304 (204) | 13.4 x 23.37 (0.53 x 0.92) | 275 (902) / 101 (331) / 80 (262) | 3 / 5.5 (0.12 / 0.22) |
| | 192 - 216 | 309 (207) | 14.2 x 24.17 (0.56 x 0.95) | 273 (896) / 99 (325) / 78 (256) | 2 (0.08) |
| | 288 | 351 (236) | 15.9 x 25.88 (0.63 x 1.02) | 235 (771) / 92 (302) / 72 (236) | 2.6 / 3.7 (0.1 / 0.15) |

Printed Information on Outer Jacket
FOSPC-XXX-X-F8SJSADX-FT002-EX / 2-288 fibers

=/MONTH//YEAR/ WAVEOPTICS= =F8SJSAD= =/MESSENGER DIAMETER/= =/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


| Messenger diameter | 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) |
| 1/4" | 10,000 (3,048) | 2 - 72 | 1,470 (58) | 1,100 (43) | 1,223 (2,697) | 1,470 (58) | 1,220 (48) | 1,610 (63) |
| | | 96 | 1,470 (58) | 1,100 (43) | 1,290 (2,845) | 1,470 (58) | 1,220 (48) | 1,610 (63) |
| | | 144 | 1,650 (65) | 1,100 (43) | 1,467 (3,235) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 192 - 216 | 1,650 (65) | 1,100 (43) | 1,480 (3,262) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 288 | 1,770 (69) | 1,100 (43) | 1,633 (3,599) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | 15,000 (4,572) | 2 - 72 | 1,650 (65) | 1,100 (43) | 1,751 (3,860) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 96 | 1,770 (69) | 1,100 (43) | 1,886 (4,159) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | | 144 | 1,770 (69) | 1,100 (43) | 2,075 (4,574) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | | 192 - 216 | 2,060 (81) | 1,100 (43) | 2,185 (4,817) | 2,060 (81) | 1,220 (48) | 2,200 (87) |
| | 20,000 (6,096) | 2 - 72 | 1,770 (69) | 1,100 (43) | 2,258 (4,977) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| 3/16" | 10,000 (3,048) | 2 - 72 | 1,200 (47) | 1,100 (43) | 872 (1,923) | 1,220 (48) | 1,220 (48) | 1,340 (63) |
| | | 96 | 1,470 (58) | 1,100 (43) | 1,046 (2,307) | 1,470 (58) | 1,220 (48) | 1,610 (63) |
| | | 144 | 1,650 (65) | 1,100 (43) | 1,224 (2,698) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 192 - 216 | 1,650 (65) | 1,100 (43) | 1,239 (2,731) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 288 | 1,770 (69) | 1,100 (43) | 1,389 (3,062) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | 15,000 (4,572) | 2 - 72 | 1,650 (65) | 1,100 (43) | 1,385 (3,054) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 96 | 1,650 (65) | 1,100 (43) | 1,486 (3,275) | 1,650 (65) | 1,220 (48) | 1,790 (70) |
| | | 144 | 1,770 (69) | 1,100 (43) | 1,709 (3,767) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | | 192 - 216 | 1,950 (77) | 1,100 (43) | 1,783 (3,930) | 1,950 (77) | 1,220 (48) | 2,090 (82) |
| | | 288 | 1,950 (77) | 1,100 (43) | 1,975 (4,354) | 1,950 (77) | 1,220 (48) | 2,090 (82) |
| | 20,000 (6,096) | 2 - 72 | 1,770 (69) | 1,100 (43) | 1,783 (3,931) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | | 96 | 1,770 (69) | 1,100 (43) | 1,904 (4,198) | 1,770 (69) | 1,220 (48) | 1,910 (75) |
| | | 144 | 2,060 (81) | 1,100 (43) | 2,264 (4,992) | 2,060 (81) | 1,220 (48) | 2,200 (87) |

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.

Transmission Performance by Fiber Type
FOSPC-XXX-X-F8SJSADX-FT002-EX / 2-288 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-F8SJSADX-FT002-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
 192 - 192 fibers
 216 - 216 fibers
 288 - 288 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

Optical cable compliance

EX - Waveoptics standard
 AC - Buy American Act compliance

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

Messenger diameter

6 - 1/4"
 5 - 3/16"

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