



Loose Tube Gel-Free Single-Armored Single Jacket Cable / PBT

FOSPC-XXX-X-SJSAD-FT002-US / 2-432 Fibers

Description

Waveoptics Loose Tube Gel-Free Single-Armored Single Jacket Cable is designed for direct-buried installation, as well as for duct and aerial (lashed) installation.

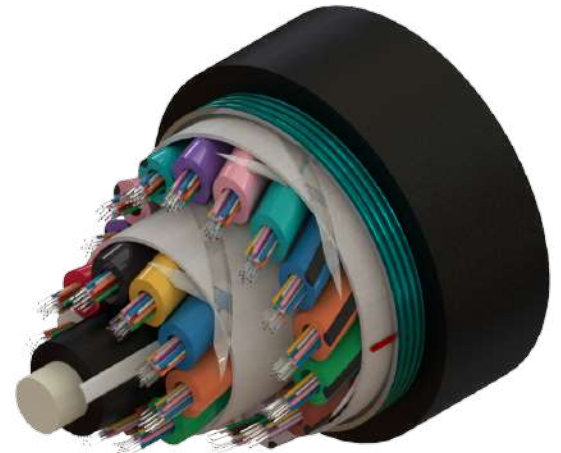
Loose tubes are made of PBT which provide great mechanical properties under a wide range of conditions such as crush test and impact test. Gel-free water blocking technology allows a cleaner and quicker installation as well as a cost-friendly cable preparation.

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.

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 resistant and offers exceptional performance against compression.



LT DRY SINGLE-ARMORED SJ CABLE
288F G652D DFT002 S US

Quality

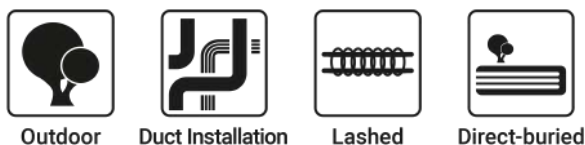
Waveoptics is a ISO-9001: 2015 certified company.

We meet or exceed the following international standards:

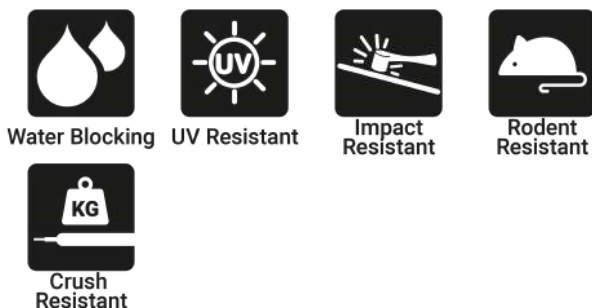
- Telcordia GR-20: Generic requirements for optical fiber and optical fiber cable.
- IEC 60794: Basic requirements for optical fiber and cable elements.
- ANSI/ICEA S-87-640: Standard for optical fiber outside plant communications cable.

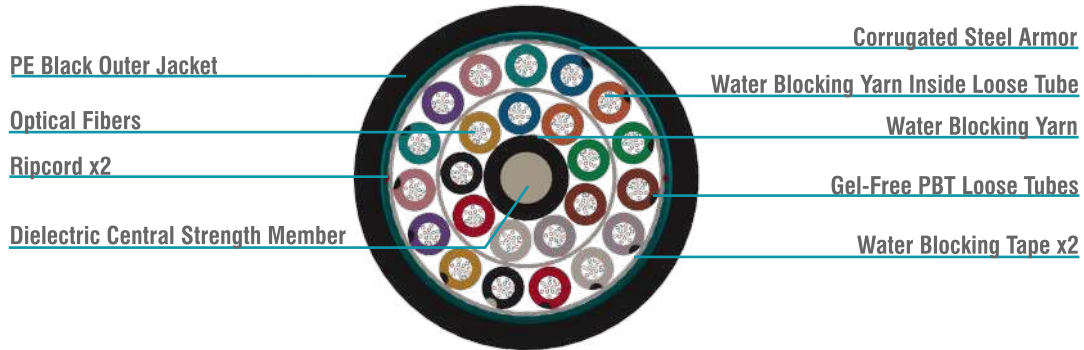
Each Waveoptics cable meets the highest quality standards in the industry and contains a compliance certificate in which the performed tests in our quality laboratory are physically attached.


Applications:



Protections:



Dimensions and Properties
FOSPC-XXX-X-SJSAD-FT002-US / 2-432 fibers


| 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 | PBT / 2.5 mm (0.1 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) | 4,400 N/100mm / 2,200 N/100mm |
| Minimum bend radius (operation / installation) | 10 x OD / 20 x OD |

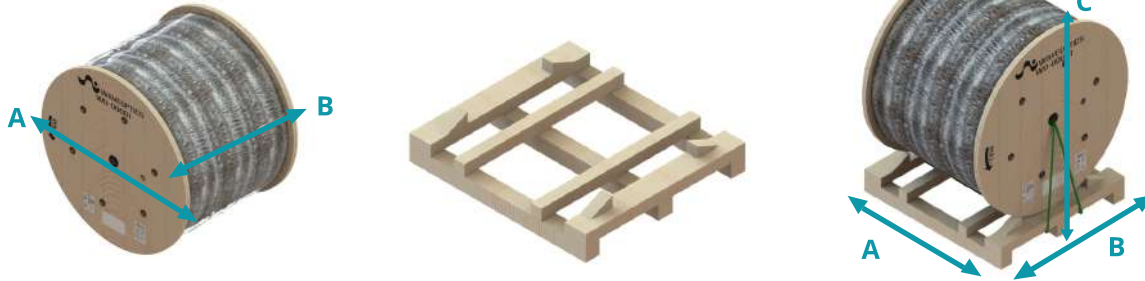
Note: Waveoptics recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

| Fiber count | Loose tube / fillers | Cable weight (kg/km) (lb/kft) (±10%) | Tensile strength (N) (lbf) long-term / short-term | Nominal outer diameter (mm) (in) (±5%) | Dielectric central strength member diameter (mm) (in) (Without PE / With PE) |
|-------------|----------------------|---|--|--|--|
| 2 - 12 | 1/5 | 149 (100) | 890 / 2,700 (200/607) | 12.5 (0.49) | 2.6 (0.1) |
| 24 | 2/4 | 149 (100) | 890 / 2,700 (200/607) | 12.5 (0.49) | 2.6 (0.1) |
| 36 | 3/3 | 149 (100) | 890 / 2,700 (200/607) | 12.5 (0.49) | 2.6 (0.1) |
| 48 | 4/2 | 149 (100) | 890 / 2,700 (200/607) | 12.5 (0.49) | 2.6 (0.1) |
| 60 | 5/1 | 149 (100) | 890 / 2,700 (200/607) | 12.5 (0.49) | 2.6 (0.1) |
| 72 | 6/0 | 149 (100) | 890 / 2,700 (200/607) | 12.5 (0.49) | 2.6 (0.1) |
| 96 | 8/0 | 179 (121) | 890 / 2,700 (200/607) | 14.1 (0.56) | 3 / 4.2 (0.12 / 0.17) |
| 144 | 12/0 | 260 (174) | 890 / 2,700 (200/607) | 17.3 (0.68) | 3 / 7.4 (0.12 / 0.29) |
| 192 | 16/2 | 268 (180) | 890 / 2,700 (200/607) | 18 (0.71) | 2.6 (0.1) |
| 216 | 18/0 | 268 (180) | 890 / 2,700 (200/607) | 18 (0.71) | 2.6 (0.1) |
| 288 | 24/0 | 337 (226) | 890 / 2,700 (200/607) | 20.4 (0.80) | 3 / 5 (0.12 / 0.2) |
| 432 | 36/0 | 423 (284) | 890 / 2,700 (200/607) | 23.5 (0.93) | 2.6 (0.1) |

Printed Information on Outer Jacket
FOSPC-XXX-X-SJSAD-FT002-US / 2-432 fibers

=/MONTH//YEAR/ WAVEOPTICS += =SJSAD= =/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


| 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) |
| 10,000 (3,048) | 2 - 72 | 1,300 (51) | 1,030 (41) | 589 (1,299) | 1,030 (41) | 1,300 (51) | 1,478 (58) |
| | 96 | 1,300 (51) | 1,080 (43) | 692 (1,526) | 1,270 (50) | 1,300 (51) | 1,478 (58) |
| | 144 | 1,600 (63) | 1,226 (48) | 1,073 (2,366) | 1,270 (50) | 1,600 (63) | 1,778 (70) |
| | 192 - 216 | 1,600 (63) | 1,226 (48) | 1,097 (2,418) | 1,270 (50) | 1,600 (63) | 1,778 (70) |
| | 288 | 1,850 (73) | 1,225 (48) | 1,378 (3,037) | 1,225 (48) | 1,850 (73) | 2,028 (80) |
| | 432 | 1,900 (75) | 1,472 (58) | 1,617 (3,565) | 1,472 (58) | 1,900 (75) | 2,078 (82) |
| 15,000 (4,572) | 2 - 72 | 1,450 (57) | 1,130 (44) | 872 (1,922) | 1,270 (50) | 1,450 (57) | 1,628 (64) |
| | 96 | 1,600 (63) | 1,226 (48) | 1,099 (2,423) | 1,270 (50) | 1,600 (63) | 1,778 (70) |
| | 144 | 1,850 (73) | 1,225 (48) | 1,559 (3,437) | 1,270 (50) | 1,850 (73) | 2,028 (80) |
| | 192 - 216 | 1,900 (75) | 1,376 (54) | 1,595 (3,516) | 1,470 (58) | 1,900 (75) | 2,078 (82) |
| | 288 | 1,900 (75) | 1,472 (58) | 1,869 (4,120) | 1,472 (58) | 1,900 (75) | 2,078 (82) |
| 20,000 (6,096) | 2 - 72 | 1,600 (63) | 1,226 (48) | 1,189 (2,621) | 1,270 (50) | 1,600 (63) | 1,778 (70) |
| | 96 | 1,700 (67) | 1,175 (46) | 1,417 (3,124) | 1,270 (50) | 1,700 (67) | 1,878 (74) |
| | 144 | 1,900 (75) | 1,472 (58) | 1,912 (4,215) | 1,472 (58) | 1,900 (75) | 2,078 (82) |
| | 192 - 216 | 1,900 (75) | 1,472 (58) | 2,012 (4,436) | 1,472 (58) | 1,900 (75) | 2,078 (82) |

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-SJSAD-FT002-US / 2-432 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-SJSAD-FT002-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 fibers
- 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
- 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

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.