



# Central Loose Tube Armored Cable / PBT

## FOSPC-XX-X-SJSAUT82-FT002-US / 1-12 Fibers

### Description

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

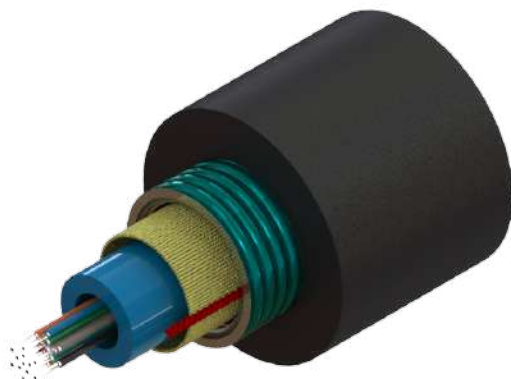
Single loose tube made of PBT which provides great mechanical properties under a wide range of conditions such as crush test and impact test, and is filled with water blocking gel.

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.

Two ripcords ensure a quick fiber access.

The cable contains water blocking aramid yarn that helps increase tensile strength and also provides protection against water penetration.

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



CENTRAL LT ARMORED CABLE 8.2MM  
12F 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.

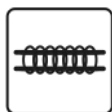
### Applications:



Outdoor



Duct Installation



Lashed



Direct-buried

### Protections:



Water Blocking



UV Resistant



Impact Resistant

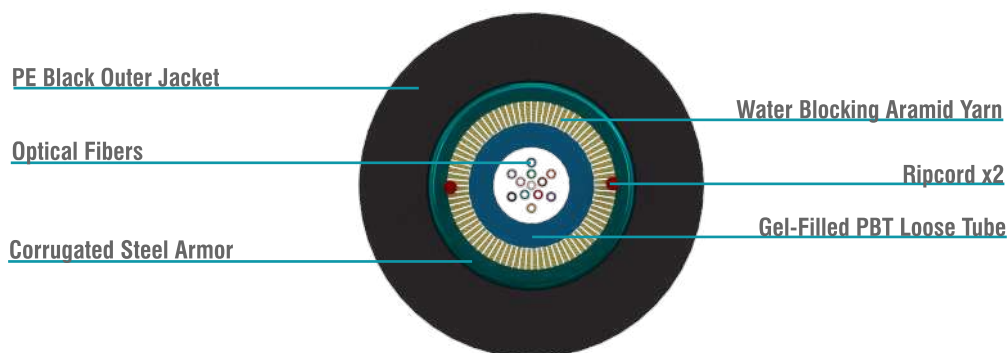



Rodent Resistant



Crush Resistant

## Dimensions and Properties

**FOSPC-XX-X-SJSAUT82-FT002-US / 1-12 fibers**


Design	
Fiber per tube	1 - 12
Fiber color code / loose tube color code	
Strength member	Water blocking aramid yarn
Outer jacket material / thickness	Polyethylene / 1.5 mm (0.06 in)
Loose tube material / diameter	PBT / 3 mm (0.12 in)
Drum length	10,000 ft, 15,000 ft, 20,000 ft & 40,000 ft ( $\pm 5\%$ )
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	Cable weight (kg/km) (lb/kft) ( $\pm 10\%$ )	Tensile strength (N) (lbf) long-term / short-term	Nominal outer diameter (mm) (in) ( $\pm 5\%$ )
1 - 12	73 (49)	890 / 2,700 (200/607)	8.2 (0.32)

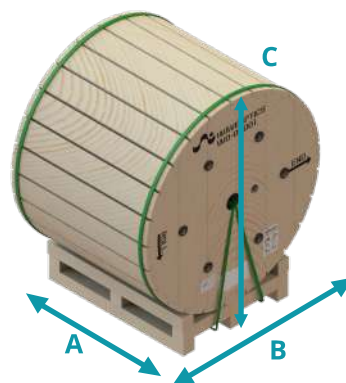
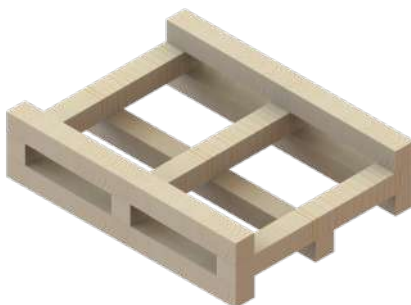
## Printed Information on Outer Jacket

**FOSPC-XX-X-SJSAUT82-FT002-US / 1-12 fibers**

=/MONTH//YEAR/ WAVEOPTICS += =SJSA= =UT= =82= =/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%)		
		Open	Closed			A (mm) (in)	B (mm) (in)	C (mm) (in)
10,000 (3,048)	1 - 12	1,000 (39)	1,050 (41)	780 (31)	366 (806)	780 (31)	1,050 (41)	1,202 (47)
15,000 (4,572)	1 - 12	1,150 (45)	1,200 (47)	930 (37)	487 (1,073)	930 (37)	1,200 (47)	1,352 (53)
20,000 (6,096)	1 - 12	1,200 (47)	1,250 (49)	1,000 (39)	605 (1,334)	1,000 (39)	1,250 (49)	1,402 (55)
40,000 (12,192)	1 - 12	1,400 (55)	1,450 (57)	1,176 (46)	1,134 (2,501)	1,176 (46)	1,450 (57)	1,602 (63)

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-XX-X-SJSAUT82-FT002-US / 1-12 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-XX-X-SJSAUT82-FT002-US**
**Fiber count**

01 - 1 fiber  
 02 - 2 fibers  
 04 - 4 fibers  
 06 - 6 fibers  
 08 - 8 fibers  
 12 - 12 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  
 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.