WAVEOPTICS

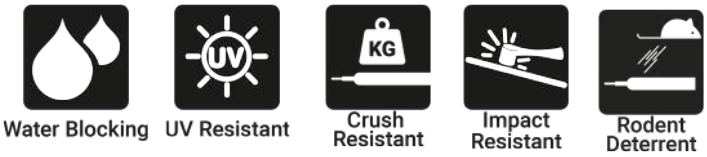
TECHNICAL DATA SHEET
OUTDOOR CABLE

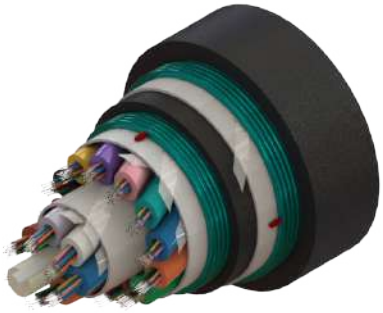
Loose Tube Double-Armored Double-Jacket Cable Gel-Filled / PBT

FOSPC-XXX-X-DJDA-FT002-US/ 192 -216 Fibers

Applications

Protections





LOOSE TUBE DOUBLE-ARMORED DOUBLE-JACKET CABLE GEL-FILLED 216F G652D FIBER FT

Description

Waveoptics® Loose Tube Double-Armored Double-Jacket Cable Gel-Filled 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, and are filled with water blocking gel.

PE double 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 four 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 and offers exceptional performance against compression. Double-armored design offers superior protection against rodents.

Quality

Waveoptics® is a ISO-9001:2015 certified company.
We meet or exceed the following international standards:

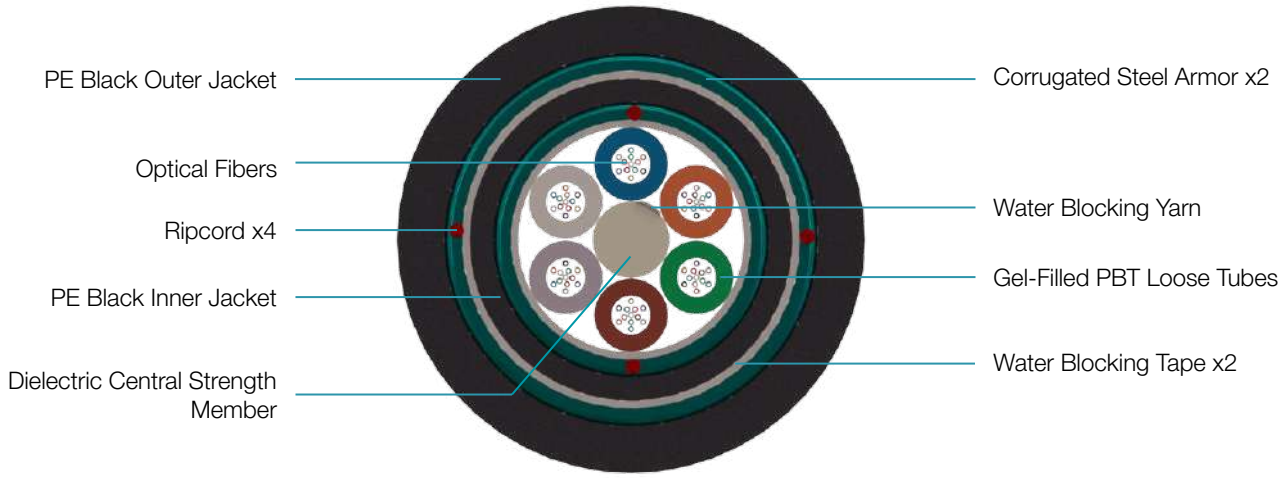
- Telcordia GR-20: Generic requirements for optical fiber and optical fiber cable.
- IEC 60794: Basic requirements for optical fiber and cable elements.
- ANSI/ICEA S-87-640: Standard for optical fiber outside plant communications cable.

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.

TECHNICAL DATA SHEET
OUTDOOR CABLE

Dimensions & Properties

FOSPC-XXX-X-DJDA-FT002-US/ 192 -216 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 13 14 15 16 17 18
Dielectric Strength Member	FRP
Outer Jacket Material / Thickness	Polyethylene / 1.6 mm (0.06 in)
Inner Jacket Material / Thickness	Polyethylene / 0.8 mm (0.03 in)
Loose Tube Material / Diameter	PBT / 2.5 mm (0.1 in)
Drum Length	10,000 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/100 mm / 2,200 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.

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TECHNICAL DATA SHEET
OUTDOOR CABLE

FOSPC-XXX-X-DJDA-FT002-US/ 192 -216 Fibers

Dimensions & Properties

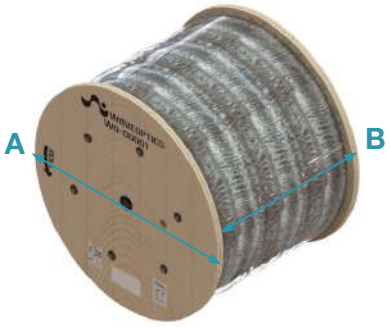
Fiber Count	Loose tube / fillers	Cable weight (kg/km) (lb/kft) (±10%)	Tensile Strength (N) (lbf) long-term/ short-term	Nominal Outer Dimensions (mm) (in) (±5%)	Dielectric Central Strength Member Diameter (in) (Without PE / With PE)
192	16 / 2	419 (282)	890 / 2,700 (200/607)	21.3 (0.84)	2.6 (0.1)
216	18 / 0	419 (282)	890 / 2,700 (200/607)	21.3 (0.84)	2.6 (0.1)

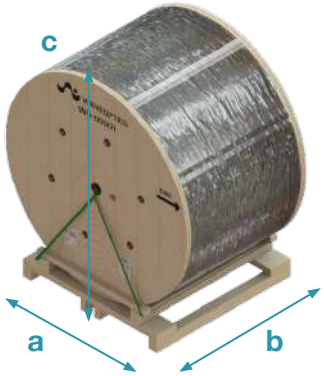
Printed Information on Outer Jacket

= /MONTH//YEAR/ WAVEOPTICS/ OPTICAL CABLE + = =DJDA= =  = = /FIBER TYPE/= = /FIBER COUNT/= = /FEET*/ FT= = /LOT# /=

- Printed in white and resistant to physical tests on marking
- Marking interval: every 2 feet + 1%
- The marking can be changed according to customer requirements

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)	192-216	1,770 (70)	1,000 (39)	1,541 (3,396)	1,770 (70)	1,219 (48)	1,891 (74)

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

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	-	-	-	-	-	-
OFS® Fiber Code	1	2	-	-	-	-	-	-
Wavelength (nm)	1310/1550			1550/1625	850/1300			
Max.attn. (dB/km) (1)	0.35/0.25	0.35/0.25	0.4/0.3	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/sat 850 nm transmissions based on IEEE 802.3z test protocol
*For more information about the optical fibers, consult the corresponding data sheets.
(4) 10-Gb/sat 850 nm transmissions based on IEEE 802.3ae test protocol
(5) 40/100-Gb/sat 850 nm transmissions based on IEEE P802.3ba test protocol

Part Number Configuration

FOSPC-XXX-X-DJDA-FT002-US

Fiber Count

192 - 192 Fibers
216 - 216 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

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.