



Loose Tube Double-Armored Double-Jacket Cable Dry / PBT

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

Applications



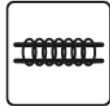
Outdoor



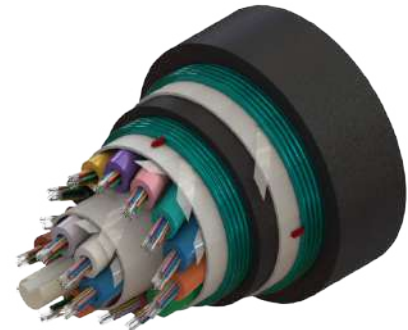
Duct Installation



Direct-buried



Lashed



Protections



Water Blocking



UV Resistant



Crush Resistant



Impact Resistant



Rodent Deterrent

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

Description

Waveoptics® Loose Tube Double-Armored Double-Jacket Cable Dry 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 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.

Folio PE-417-01-EN

Last Review 11/24/2021



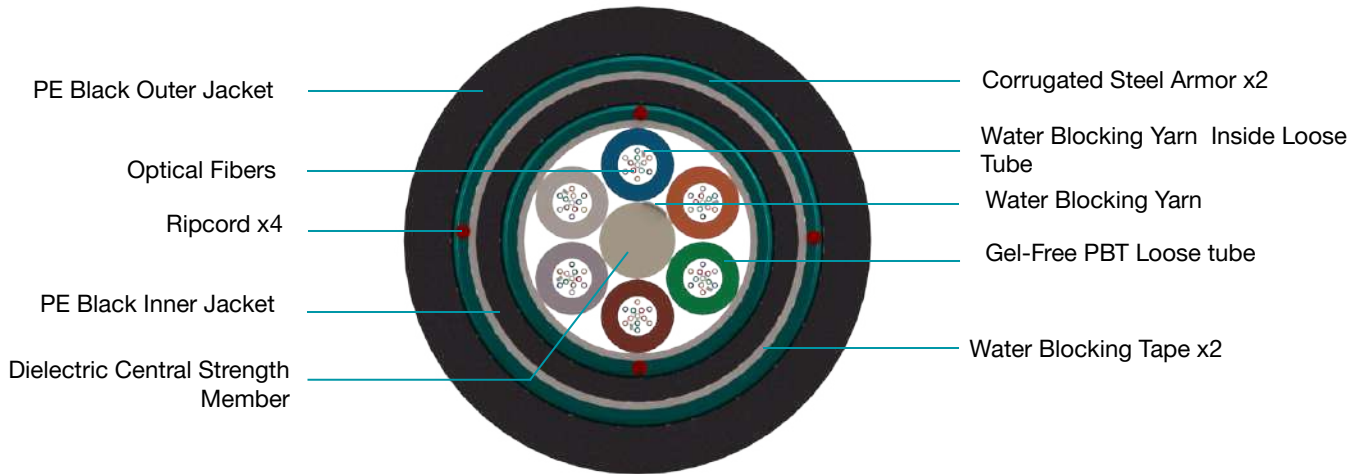
WAVEOPTICS

TECHNICAL DATA SHEET

OUTDOOR CABLE

Dimensions & Properties

FOSPC-XXX-X-DJDAD-FT002-US/ 192 - 216 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)
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.



WAVEOPTICS

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OUTDOOR CABLE

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

Dimensions & Properties

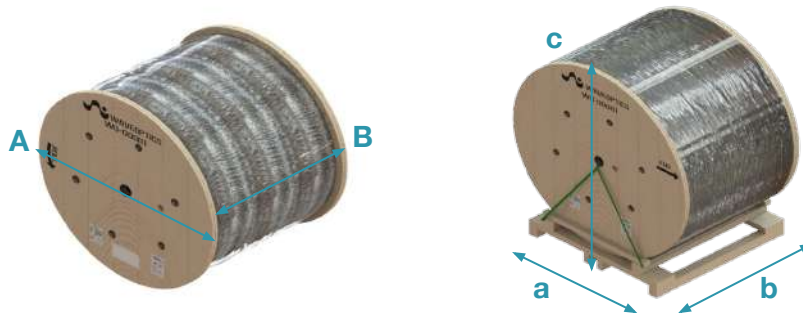
Fiber Count	Loose tube / fillers	Cable weight (kg/km) (lb/kft) ($\pm 10\%$)	Tensile Strength (N) (lbf) long-term/ short-term	Nominal Outer Dimensions (mm) (in) ($\pm 5\%$)	Dielectric Central Strength Member Diameter (in) (Without PE / With PE)
192	16 / 2	408 (274)	890 / 2,700 (200/607)	21.3 (0.84)	2.6 (0.1)
216	18 / 0	408 (274)	890 / 2,700 (200/607)	21.3 (0.84)	2.6 (0.1)

Printed Information on Outer Jacket

= /MONTH//YEAR/ WAVEOPTICS OPTICAL CABLE + == DJDAD ==  == /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) ($\pm 5\%$)	B (mm) (in) ($\pm 5\%$)	Drum and Pallet Total weight (kg) (lb) ($\pm 10\%$)	Total Packaging($\pm 5\%$)		
					a (mm) (in)	b (mm) (in)	c (mm) (in)
10,000 (3,048)	192 - 216	1,770 (70)	1,000 (39)	1,507 (3,322)	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

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WAVEOPTICS

TECHNICAL DATA SHEET

OUTDOOR CABLE

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

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
 - (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
- *For more information about the optical fibers, consult the corresponding data sheets.

Part Number Configuration

FOSPC-XXX-X-DJDAD-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.

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