WAVEOPTICS

Central Loose Tube Armored Cable Dry / PP
FOSPC-0XX-X-SJSADUT8-FTXXX-US / 1-12 Fibers
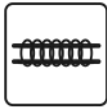
Applications

Outdoor | Duct Installation | Lashed | Direct-buried
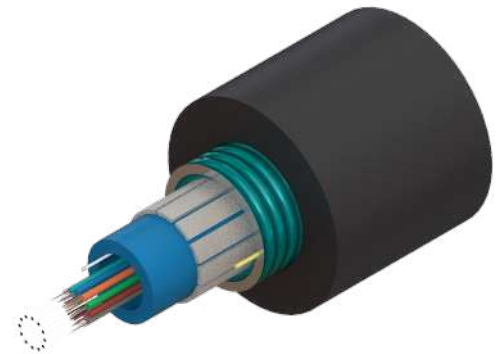
Protections

UV Resistant | Water Blocking | Crush Resistant | Rodent Deterrent | Impact Resistant

CENTRAL LOOSE TUBE ARMORED CABLE DRY 12F G652.D FIBER FT

Description

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

Single dry loose tube made of PP which provides great mechanical properties under a wide range of conditions such as crush test and impact test. Dry water blocking yarn 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.

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

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/ICEAS-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.
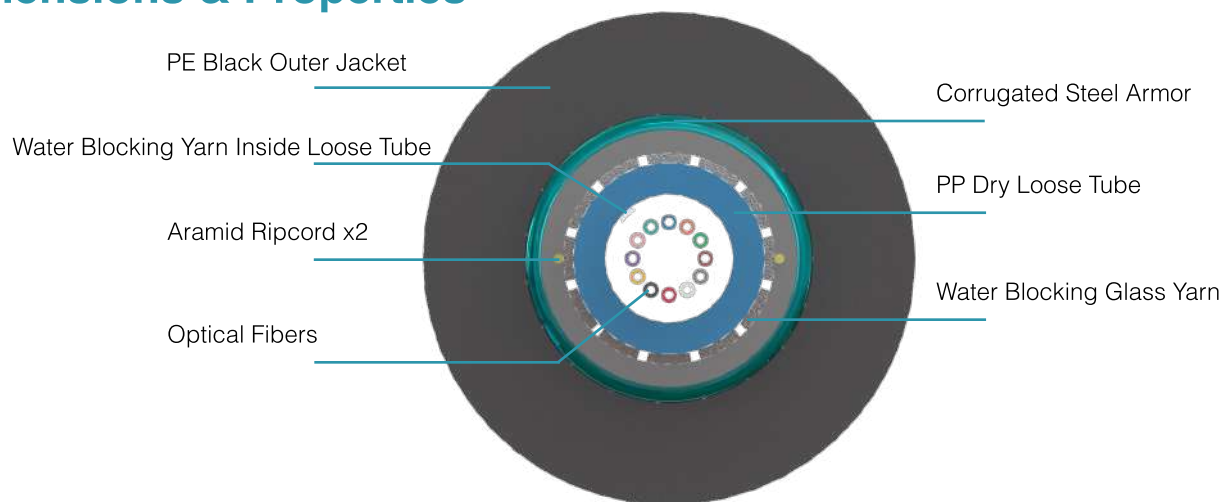
Folio PE-653-01-EN

Last Review 8/29/2022

www.waveoptics.net   info@waveoptics.net

Dimensions & Properties

PE Black Outer Jacket

Water Blocking Yarn Inside Loose Tube

Aramid Ripcord x2

Optical Fibers

Corrugated Steel Armor

PP Dry Loose Tube

Water Blocking Glass Yarn

Design	
Fiber per Ribbon	1 - 12
Fiber Color Code / Loose Tube Color Code	1 2 3 4 5 6 7 8 9 10 11 12
Dielectric Peripheral Strength Member	Water blocking glass yarn
Outer Jacket Material / Thickness	Polyethylene / 1.9 mm (0.06 in)
Inner Tube Material / Diameter	PP / 3 mm (0.12 in)
Drum Length	5,000 ft, 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/100 mm / 1,100 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.

Dimensions & Properties

Fiber Count	Cable Weight (kg/km) (lb/kft) (±10%)	Tensile Strength (N) (lbf) Long-Term / Short-Term	Nominal Outer Diameter (mm) (in) (±5%)
1 - 12	77 (52)	445 / 1,335 (100 / 300)	8.2 (0.32)

Printed Information on Outer Jacket

=/MONTH//YEAR/WAVEOPTICS OPTICAL CABLE==SJSA==UT==DRY==82== /LOT# /=   ==/FIBER TYPE/==/FIBER COUNT/==/FEET*/FT==

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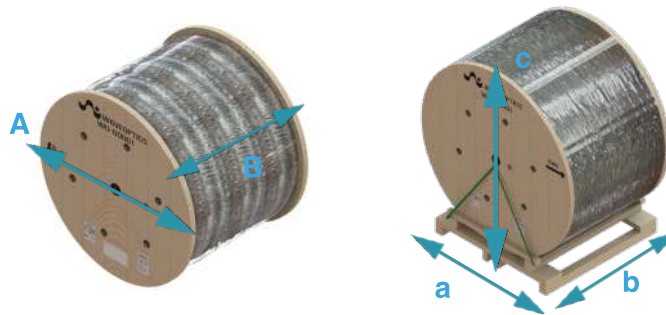- The marking can be changed according to customer requirements

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)
5,000 (1,524)	1 - 12	900 (36)	930 (37)	195 (430)	965 (38)	914 (36)	871 (34)
10,000 (3,048)		1,000 (39)	780 (31)	344 (758.3)	965 (38)	914 (36)	1,121 (44)
15,000 (4,572)		1,150 (45)	930 (37)	488 (1,076)	965 (38)	1,067 (42)	1,271 (50)
20,000 (6,096)		1,300 (51)	1,100 (43)	638 (1,407)	1,219 (48)	1,219 (48)	1,440 (57)

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)	0.36/0.25	0.36/0.25	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	-				-	-	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-0XX-X-SJSADUT8-FTXXX-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

OFS® Fiber Type

1 - SM G652.D

Reel Length

0BM - 5,000 FT
0BG - 10,000 FT
0BO - 15,000 FT
0BV - 20,000 FT

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.