Round Spiral Armored Drop Cable 3.0 MM
FOSPC-001-T-SPAR30-FTXXX-US/ 1 Fiber

Applications

Indoor   Outdoor   Aerial   Duct Installation

Protections

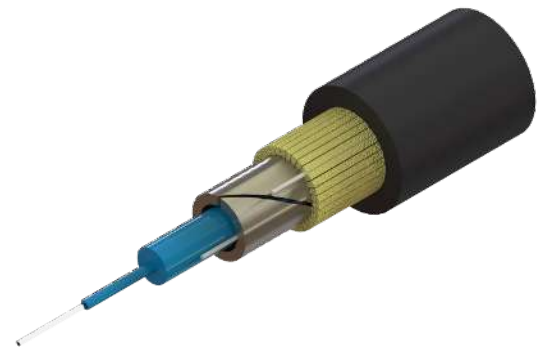UV Resistant   Water Blocking   Crush Resistant   Flame Retardant   LSZH Cable   Low Smoke Emission

ROUND SPIRAL ARMORED INDOOR/OUTDOOR CABLE UV RESISTANT RISER LSZH CABLE 01F G657.A1 FIBER FT

Description

Waveoptics® Round Spiral Armored Drop Cable is ideal for Indoor/Outdoor including aerial and duct configurations. The stainless steel spiral armor featured in this cable is lighter and boasts a smaller outer diameter. Moreover, it provides resistance against crushing, ensuring reliable performance even in challenging conditions.

These cable is also used for drop cable assembly, where consistency and uniformity are required for fast terminations to be used with standard cable termination tooling. Compared to conventional fiber optic cable armor, the stainless steel spiral armor featured in this cable is lighter and boasts a smaller outer diameter, enhancing flexibility.

Riser LSZH Black Outer Jacket prevents the spread of flames, in case of fire. Its UV resistance ensures exceptional durability exposed to direct sunlight. Equipped with water blocking technology, this cable provides effective protection, making it ideal for adverse weather conditions and ensuring additional safety with its crush resistance and flame retardant rating.

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-110-717: Standard for optical fiber drop 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.
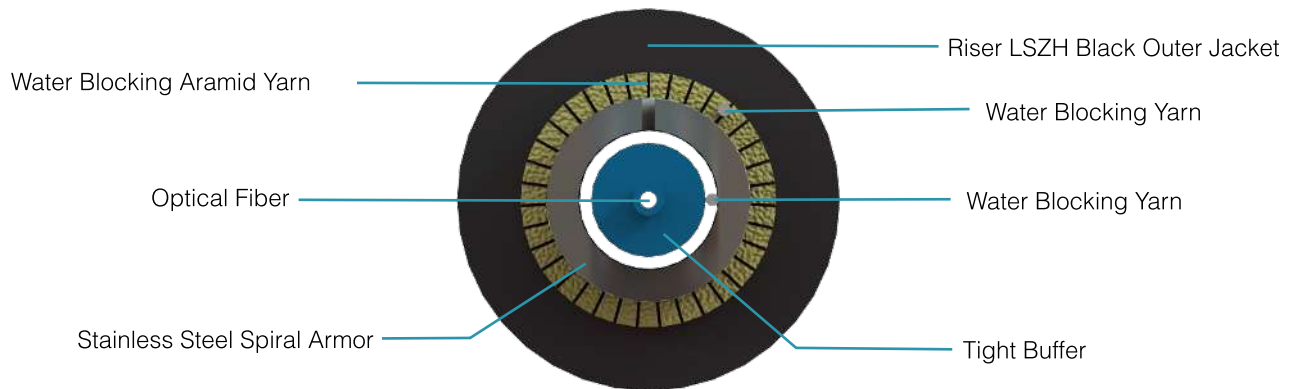
Folio PE-659-01-EN

Last Review 7/10/2024

Dimensions & Properties

Water Blocking Aramid Yarn

Optical Fiber

Stainless Steel Spiral Armor

Riser LSZH Black Outer Jacket

Water Blocking Yarn

Water Blocking Yarn

Tight Buffer

Design	
Fiber Count	1
Tight Buffer Color Code	1
Tight Buffer Material / Diameter	LSZH / 0.9 mm (0.04 in) (+0 -0.05 mm)
Dielectric Strength Member	Water Blocking Aramid Yarn
Outer Jacket Material / Color	Riser LSZH with UV protection / Black
Spiral Armor Material / Diameter	SUS 204 / 1.6 mm (± 0.2 mm)
Reel Length	5,000 ft (1,524 m) & 10,000 ft (3,048 m) (±5%)
Temperature Range	
Operation	-40°C to 70°C (-40° F to 158° F)
Installation	-20°C to 60°C (-4° F to 140° F)
Storage / Transport	-40°C to 70°C (-40° F to 158° F)
Mechanical Properties	
Crush Resistance (Long-Term / Short-Term)	100 N/cm / 500 N/cm
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%)	Tight Buffer Material	Tensile Strength (N)(lbf) long-term/ short-term	Nominal Outer Dimensions (mm)(in)	Crush Resistance (Long-Term / Short-Term)
1	14.5 (9.74)	LSZH	150 / 300 (34 / 67)	3.0 (0.12)	100 N/cm / 500 N/cm

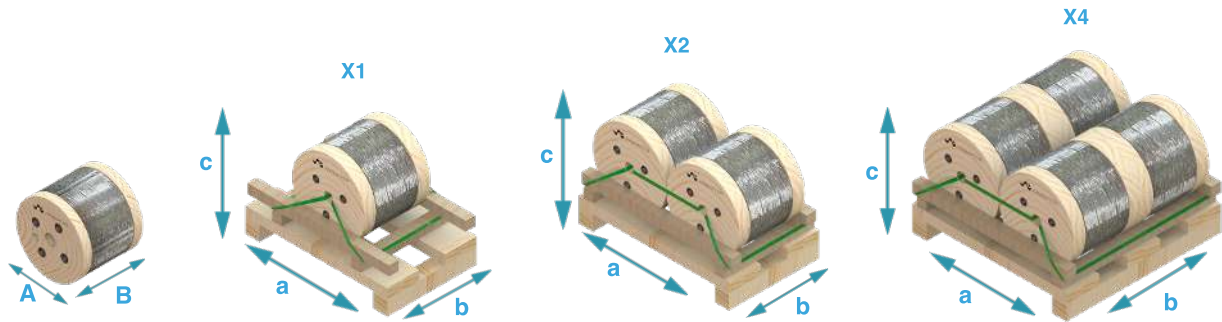## Printed Information on Outer Jacket

`= /XXXX/FT= = /MONTH//YEAR /WAVEOPTICS/ OPTICAL CABLE= =        = =/LOT# /= =SPAR30= =/FIBER COUNT/= = /FIBER TYPE/=`

- 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%)	Drum Length (ft)(m)(± 5%)	Total Packaging (± 5%)		
						A (mm)(in)	B (mm)(in)	C (mm)(in)
5,000 (1,524)	1	390 (15)	350 (14)	41 (90)	5,000 (1,524)	760 (30)	480 (19)	520 (20)
5,000 (1,524)	1	390 (15)	350 (14)	81 (179)	10,000 (3,048)	800 (31)	480 (19)	520 (20)
5,000 (1,524)	1	390 (15)	350 (14)	148 (326)	20,000 (6,096)	800 (31)	800 (31)	520 (20)

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.

Note 3: Drums should be stored indoors avoiding environmental exposures such as: sunlight, humidity, precipitation or dust. Therefore, FONCS does not guarantee the drum performance once exposed to any type of environmental exposure.
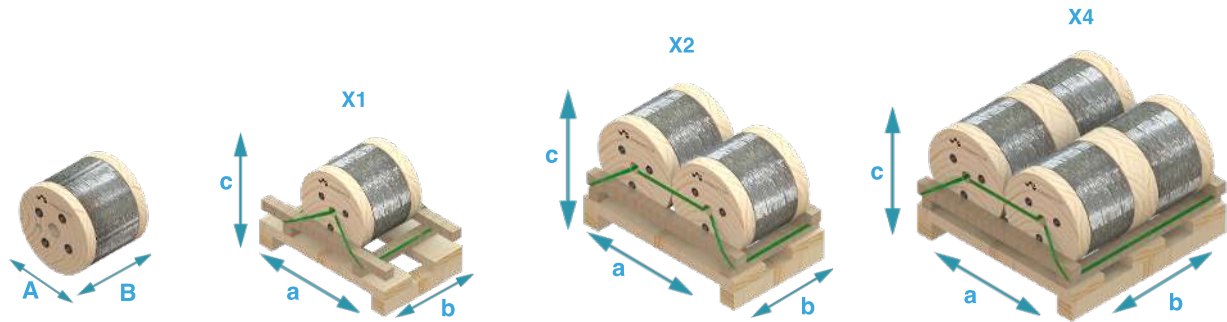
All drums include:*
1. Test report certificate
2. Product description (weight, dimensions, lot and part number)
3. End cable marking

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%)	Drum Length (ft)(m)(± 5%)	Total Packaging(± 5%)		
						a (mm)(in)	b (mm)(in)	c (mm)(in)
10,000 (3,048)	1	480 (19)	400 (16)	62 (137)	10,000 (3,048)	760 (30)	550 (22)	610 (24)
10,000 (3,048)	1	480 (19)	400 (16)	123 (271)	20,000 (6,096)	1220 (48)	550 (22)	610 (24)
10,000 (3,048)	1	480 (19)	400 (16)	232 (511)	40,000 (12,192)	1220 (48)	1000 (39)	620 (24)

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.

Note 3: Drums should be stored indoors avoiding environmental exposures such as: sunlight, humidity, precipitation or dust. Therefore, FONCS does not guarantee the drum performance once exposed to any type of environmental exposure.

All drums include:*
1. Test report certificate
2. Product description (weight, dimensions, lot and part number)
3. End cable marking

Transmission Performance by Fiber Type

Fiber Type	
Waveoptics® Fiber Type	G657.A1
Waveoptics® Fiber Code	T
Wavelength (nm)	1310 / 1550
Max.attn. (dB/km) (1)	0.36/0.25
Cable Marking Specifications	G657.A1

Notes:
(1) Maximum attenuation after cabling process

Part Number Configuration

FOSPC-001-T-SPAR30-FTXXX-US

Waveoptics® Fiber Type

T- SM G657.A1

Drum Length

A6S - 5,000 ft
A6T - 10,000 ft

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.

Folio PE-659-01-EN

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