



Air Blown Micro Cable Gel-Filled

FOSPC-XXX-X-ABMC-FTXXX-EX/ 02-288 Fibers

Applications



Outdoor



Air Blown Fiber



Duct Installation

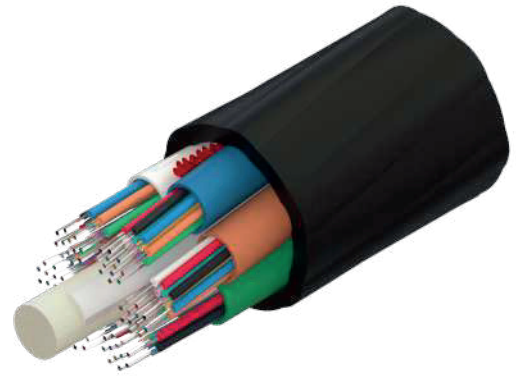
Protections



UV Resistant



Water Blocking



AIR BLOWN MICRO CABLE
GEL-FILLED 72F G657A1 FIBER FT

Description

Waveoptics® Air Blown Micro Cable Gel-Filled all-dielectric design with a small outer diameter, makes it ideal for microduct applications, lowering deployment cost, allowing the usage of the air blown fiber method for installation. Designed for microducts with an inner diameter ranging from 8 mm to 16 mm, according to the fiber count.

Loose tubes are made of PBT which provide great mechanical properties under a wide range of conditions and are 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.

The SZ-stranded method for loose tube and one ripcord ensure a quick and easy mid-span access.

Dielectric central strength member requires no bonding or grounding.

Internal and external water blocking yarn and water blocking aramid yarn used as binder, providing protection against water penetration and adding tensile strength.

Quality

Waveoptics® is a ISO-9001:2015 certified company.

We meet or exceed the following international standards:

- IEC 60794-1-21 E1 to E7: Mechanical test methods for Fiber Optic Cable.
- IEC 60794-1-21 F1 - F5: Environmental test methods for Fiber Optic Cable.

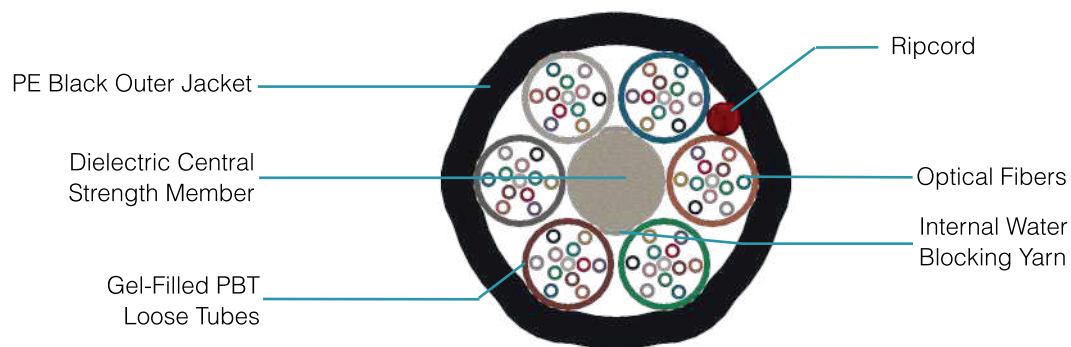
In case you do not meet any of these standards or any of the mentioned specifications in this data sheet a notification must be made before signing it. If it is signed and the product does not meet these standards after testing, the material will be returned at the provider's expense.


TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-ABMC-FTXXX-EX / 02-288 Fibers

Dimensions & Properties



1	
Fiber per Tube	12
	24 *
Fiber Color Code / Loose Tube Color Code	
Dielectric Strength Member	FRP
Outer Jacket Material / Thickness	Polyethylene / 0.5 (0.02 in)
Loose Tube Diameter	12 - 144 Fibers: 1.4 mm (0.06 in) 192 - 288 Fibers: 1.7 mm (0.07 in)
Drum Length	10,000 ft (±5%)
Temperature Range	
Operation	-40°C to +70°C (-40° F to +158° F)
Installation	-30°C to +60°C (-22° F to +140° F)
Storage / Transport	-40°C to +70°C (-40° F to +158° F)
Mechanical Properties	
Crush Resistance (Short-Term / Long-Term)	500 N/100 mm / 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.

* Only applicable for 192 fibers, 216 fibers, 288 fibers configuration.

* Only applies for fiber color code.

TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-ABMC-FTXXX-EX / 02-288 Fibers

Dimensions & Properties

Fiber Count	Loose Tube / Fillers	Fibers per Tube	Cable Weight (kg/km) (lb/kft) (±10%)	Tensile Strength (N)(lbf) Short-Term	Nominal Outer Diameter (mm)(in)(±5%)	Recommended Microduct Size (ID)(mm)	Dielectric Central Strength Member Diameter / with PE (mm) (in)
12	1/5	12	22 (15)	200 (45)	5.3 (0.21)	≥ 8	1.5 (0.06)
24	2/4	12	23 (15)	200 (45)	5.3 (0.21)	≥ 8	1.5 (0.06)
36	3/3	12	23 (15)	200 (45)	5.3 (0.21)	≥ 8	1.5 (0.06)
48	4/2	12	24 (16)	200 (45)	5.3 (0.21)	≥ 8	1.5 (0.06)
72	6/0	12	25 (17)	200 (45)	5.3 (0.21)	≥ 8	1.5 (0.06)
96	8/0	12	35 (24)	300 (67)	6.2 (0.24)	≥ 8	2.4 (0.09)
144	12/0	12	55 (36)	500 (112)	8.0 (0.32)	≥ 12	2.4/4.2 (0.09/0.16)
288	12/0	24	80 (54)	800 (180)	9.4 (0.37)	≥ 14	2.4 / 5.0 (0.09 / 0.20)

Note: Sheath thickness not consider ripcord portion, sizes and values with tolerances are nominal values. Before installation don't keep the cable under direct sun light.

Printed Information on Outer Jacket

=/MONTH//YEAR/ WAVEOPTICS OPTICAL CABLE==ABMC==  ==/FIBERTYPE/==/FIBERCOUNT/= /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.



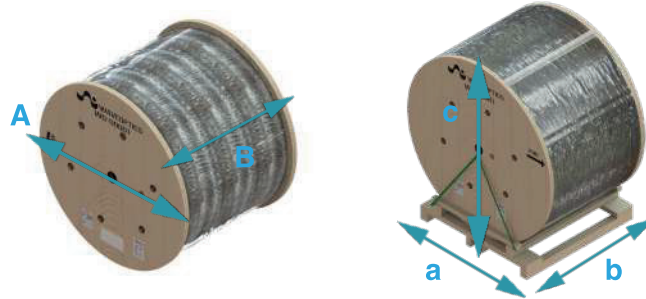
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TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-ABMC-FTXXX-EX / 02-288 Fibers

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)	12-72	800 (31)	540 (21)	124 (273)	800 (31)	760 (30)	960 (38)
	96	800 (31)	710 (28)	164 (362)	800 (31)	914 (36)	960 (38)
	144	1,000 (39)	710 (28)	239 (527)	1000 (39)	914 (36)	1160 (46)
	288	1,250 (49)	710 (28)	330 (728)	1250 (49)	850 (33)	1,400 (55)

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

Folio EP-002-01-EN

Last Review 12/13/2023

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TECHNICAL DATA SHEET

OUTDOOR CABLE

FOSPC-XXX-X-ABMC-FTXXX-EX / 02-288 Fibers

Transmission Performance by Fiber Type

Fiber Type	Single Mode	
Waveoptics® Fiber Type	G657.A1	G652.D
Waveoptics® Fiber Code	T	F
Wavelength (nm)	1310/1550	
Max.attn. (dB/km) (1)	0.35/0.22	0.36/0.25
Cable Marking Specifications	G657.A1	G652.D
Notes: (1) Maximum attenuation after cabling process.		

Part Number Configuration

FOSPC-XXX-X-ABMC-FTXXX-EX

Fiber Count

012 - 12 Fibers
 024 - 24 Fibers
 036 - 36 Fibers
 048 - 48 Fibers
 072 - 72 Fibers
 096 - 96 Fibers
 144 - 144 Fibers
 288 - 288 Fibers

Waveoptics® Fiber Type

T - SM G657.A1
 F - SM G652.D

Drum Length

0BI - 10,000 ft

Optical Cable Compliance

EX - Waveoptics® Slim Standard

Note: please contact your Waveoptics® distributor if you need any additional compliance or if you have questions about the part number configuration.