FTTH Figure 8 Drop Cable

FOSPC-00X-X-FTTXMF8-00XXX-EX / 1 - 4 Fibers

Applications

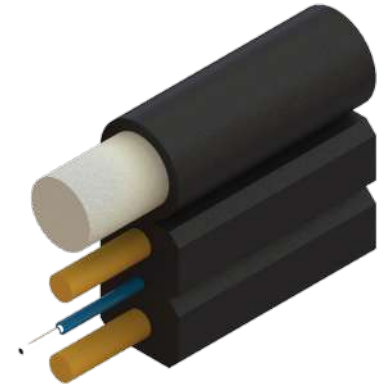Indoor | Outdoor | Aerial | Duct Installation | Self-supporting | * Bend Insensitive | FTTx Cable

Protections

Flame Retardant | UV Resistant | Low Smoke Emission | LSZH Cable

Note: Applications marked with "*" are not applicable for G6452.D cables.

FTTH FIGURE 8 DROP UV RESISTANT FRP MESSENGER 01F G657A1 FIBER MT

Description

Waveoptics® FTTH Figure 8 Drop Cable is an economical, small factor, self-supporting cable, optimal for indoor/outdoor applications. The flat design offers easy stripping with no tools, simplifying the installation process.

For self-supporting applications, a FRP Coated with EAA or a galvanized steel messenger consisting of 7 steel wires with a total diameter of 1.2 mm is incorporated.

The optical fibers are positioned in the center of the cable, parallel KFRP's (Kevlar Fiber Reinforced Plastic) rods located on both sides as reinforcement against crushing and traction forces, protecting the fibers.

LSZH outer jacket offers great flame retardant properties, with low smoke and zero halogen materials, preventing it from being toxic, while providing UV and chemical resistance.

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.
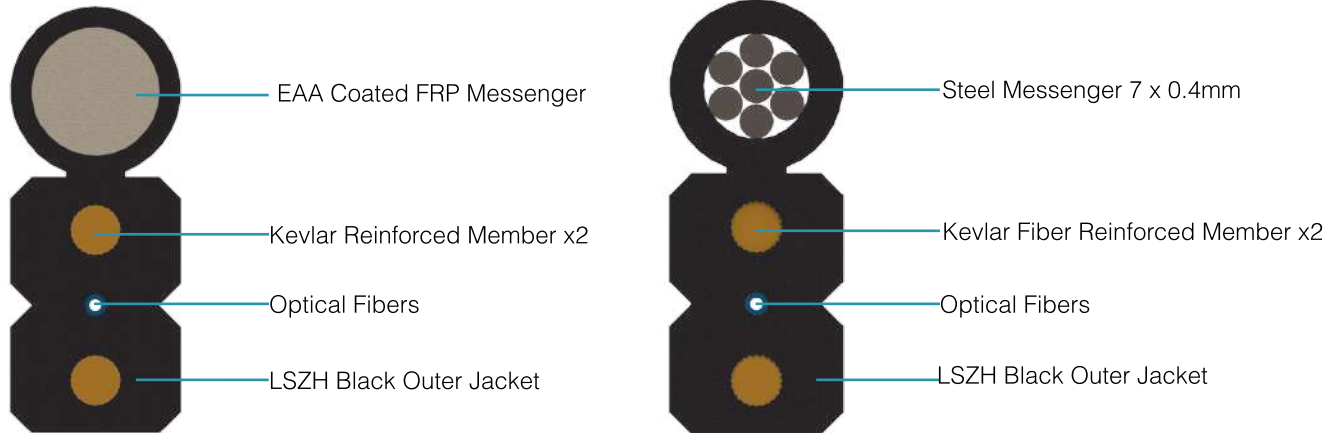- ANSI/ICEAS-87-640: Standard for optical fiber outside plant communications cable.

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 EI-086-01-EN

Last Review 9/12/2022

Dimensions & Properties

EAA Coated FRP Messenger

Kevlar Reinforced Member x2

Optical Fibers

LSZH Black Outer Jacket

Steel Messenger 7 x 0.4mm

Kevlar Fiber Reinforced Member x2

Optical Fibers

LSZH Black Outer Jacket

Design	
Fiber Count	1 - 4
Fiber Color Code	1 2 3 4
Dielectric Strength Member (Diameter)	KFRP (0.58 mm / 0.023 in)
Messenger (Diameter)	Steel (1.20 mm / 0.47 in) & FRP (1.50 mm / 0.60 in)
Outer Jacket Material / Color	LSZH / Black
Drum Length	1 km & 2 km (±5%)
Temperature Range	
Operation	-20°C to 70°C (-4° F to 158° F)
Installation	-40°C to 70°C (-40° F to 158° F)
Storage / Transport	-40°C to 70°C (-40° F to 158° F)
Mechanical Properties	
Tensile Strength (Long-Term / Short-Term)	Steel (300 N / 600 N) & KFRP (230 N / 460 N)
Crush Resistance (Long-Term / Short-Term)	1,000 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.
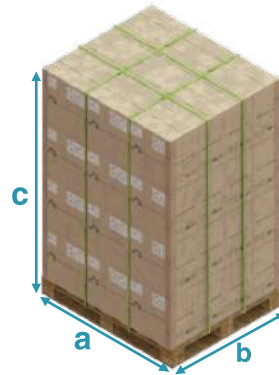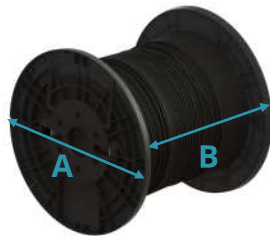
Dimensions & Properties

Fiber Count	Cable weight FRP Messenger (kg/km) (lb/kft) / Steel Messenger (kg/km) (lb/kft)(±10%)	Nominal Outer Dimensions (mm) (in) (±5%)
1 - 4	16 (11) / 18.9 (12.7)	5 x 2 (0.2 x 0.08)

Printed Information on Outer Jacket

=/MONTH//YEAR/WAVEOPTICS/OPTICAL CABLE==FTTXMF8== [   ] =/FIRE RATING/==/FIBERTYPE/==/FIBERCOUNT/==/FEET*/FT==/LOT#/=

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

Fiber count	Reel Length (m) (ft) (±5%)	A (mm) (in) (±5%)	B (mm) (in) (±5%)	Reel Weight (kg) (lb) (±5%)	Pallet Capacity (m) (ft) (±5%)	a (mm) (in) (±5%)	b (mm) (in) (±5%)	c (mm) (in) (±5%)
FRP MESSENGER								
1-4	1,000 (3,281)	310 (12)	300 (12)	22 (49)	24,000 (78,740)	1,010 (40)	1,219 (48)	2,000 (79)
1-4	2,000 (6,562)	450 (18)	350 (14)	37 (82)	48,000 (157,480)	1,010 (40)	1,219 (48)	2,000 (79)
STEEL MESSENGER								
1-4	1,000 (3,281)	310 (12)	300 (12)	22 (49)	24,000 (78,740)	1,010 (40)	1,219 (48)	2,000 (79)
1-4	2,000 (6,562)	450 (18)	350 (14)	44 (97)	48,000 (157,480)	1,010 (40)	1,219 (48)	2,000 (79)

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			
Waveoptics Fiber Type	G652.D	G657.A1	G657.A2	G657.B3
Waveoptics Fiber Code	F	T	E	N
Wavelength (nm)	1310/1550			
Max.attn. (dB/km) (1)	0.36/0.25	0.36/0.25	0.36/0.25	0.36/0.25
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G657.B3

Notes:
(1) Maximum attenuation after cabling process

Part Number Configuration

FOSPC-00X-X-FTTXMF8-00XXX-EX

Fiber Count

01 - 1 Fiber
02 - 2 Fibers
04 - 4 Fibers

Waveoptics® Fiber Type

F - SM G652.D
T - SM G657.A1
E - SM G657.A2
N - SM G657.B3

Messenger / Strength Member / Drum Length

C5E - Steel / KFRP / 1,000 m
C5F - FRP / KFRP / 1,000 m
C15 - Steel / KFRP / 2,000 m
C17 - FRP / KFRP /2,000 m

Optical Cable Compliance

EX - Waveoptics® Slim 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.