

ALTOS® Figure-8 Loose Tube, Gel-Free Armored Cable

12 F, Single-mode (OS2)

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Corning ALTOS® figure-8 gel-free cables are self-supporting aerial cables designed for easy and economical one-step installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber. The gel-free design is fully waterblocked using craft-friendly water-swellable materials, making cable access simple and requiring no clean up. While the flexible, craft-friendly buffer tubes are easy to route in closures, the SZ-stranded, loose tube design isolates optical fibers from installation and environmental rigors and facilitates mid-span access.

The figure-8 cable design allows easy, one-step installation, using standard hardware and installation methods. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.

Features and Benefits

Gel-free waterblocking technology

Craft friendly cable preparation

Medium-density polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

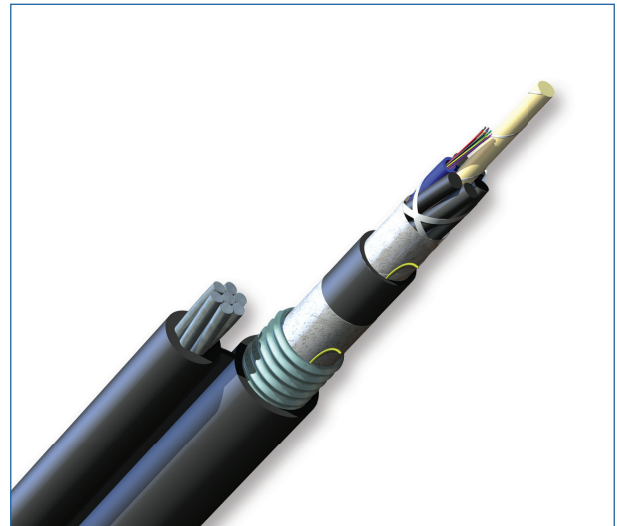
Figure-8 cable design

Easy, one-step installation

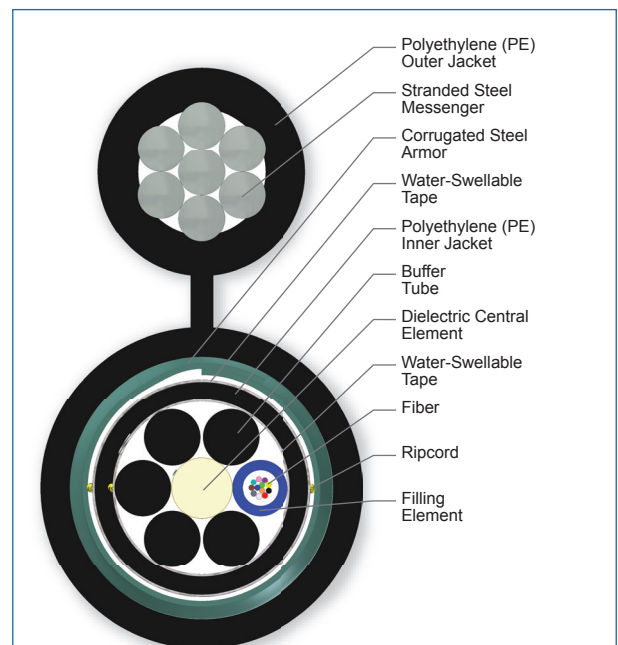
Standards

Common Installations	Outdoor self-supporting aerial
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Design and Test Criteria	ANSI/ICEA S-87-640
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Part Number: 012EUB-T4101D20



Cross Section of Part Number: 012EUB-T4101D20

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Specifications

General Specifications

Environment	Outdoor
Application	Aerial, Self-Supporting
Cable Type	Loose Tube
Product Type	Self-Supporting
Fiber Category	Single-mode (OS2)

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Central Element	Dielectric
Fiber Count	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-swellaable
Inner Jacket Material	Polyethylene (PE)
Number of Ripcords	3
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Messenger	Stranded steel
Maximum Fibers per Tube	12

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Mechanical Characteristics Cable

Weight	396 kg/km (266 lb/1000 ft)
Nominal Outer Diameter	14.3 mm (0.56 in)
Nominal Cable Height	25.9 mm (1.02 in)
Min. Bend Radius Installation	215 mm (8.4 in)
Min. Bend Radius Operation	143 mm (5.6 in)

Maximum Span with One-Percent Installation Sag

Maximum Span with 1% Installation Sag, NESC Light	189 m (620 ft)
Maximum Span with 1% Installation Sag, NESC Medium	189 m (620 ft)
Maximum Span with 1% Installation Sag, NESC Heavy	140 m (460 ft)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

Ordering Information

Part Number	012EUB-T4101D20
Product Description	ALTOS® Figure-8 Loose Tube, Gel-Free Armored Cable, 12 F, Single-mode (OS2)
EAN Code	4056418182360

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Notes



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