

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

48 F, Single-mode (OS2)

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Corning Cable Systems 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-swallowable 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 midspan 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

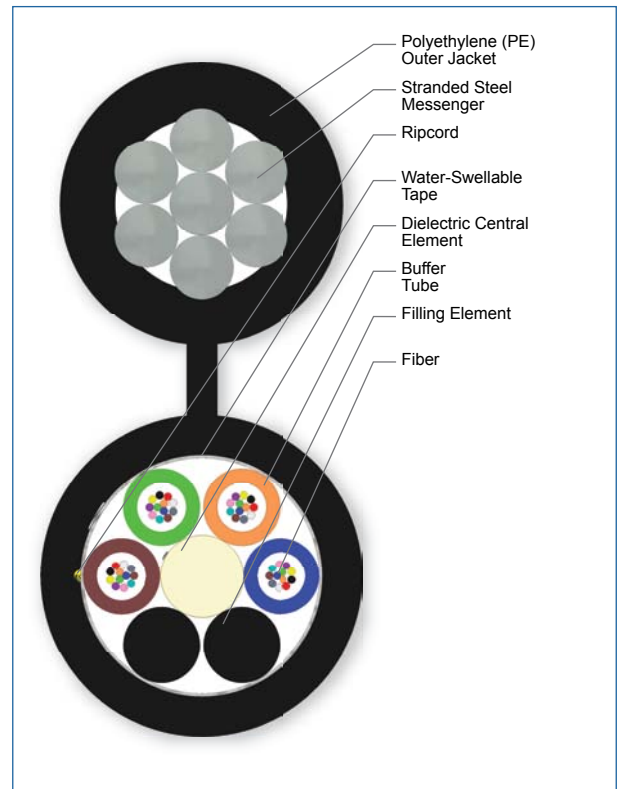
## Standards

<b>Common Installations</b>	Outdoor self-supporting aerial
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<b>Design and Test Criteria</b>	ANSI/ICEA S-87-640
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Part Number: 048EUA-T4101D20



Cross Section of Part Number: 048EUA-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	48
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	4
Buffer Tube Color Coding	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellaable
Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Messenger	Stranded steel

### Mechanical Characteristics Cable

Weight	297 kg/km (199 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.41 in)
Nominal Cable Height	22.1 mm (0.87 in)

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## Mechanical Characteristics Cable

Min. Bend Radius Installation	158 mm (6.2 in)
Min. Bend Radius Operation	105 mm (4.1 in)

## Maximum Span with One-Percent Installation Sag

Maximum Span with 1% Installation Sag, NESC Light	241 m (790 ft)
Maximum Span with 1% Installation Sag, NESC Medium	235 m (770 ft)
Maximum Span with 1% Installation Sag, NESC Heavy	168 m (550 ft)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	8.2 µm
Fiber Type	Single-mode
Fiber Category	OS2
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
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes: 1) Improved attenuation and bandwidth options available  
2) Bend-insensitive single-mode fibers available on request  
3) Contact a Corning Cable Systems Customer Care Representative for additional information

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## Ordering Information

Part Number	048EUA-T4101D20
Product Description	ALTOS® Figure-8 Loose Tube, Gel-Free Cable, 48 F, Single-mode (OS2)



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