

# ALTOS® Figure-8 Loose Tube, Gel-Filled, Armored Cable

48 F, Single-mode (OS2)

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Corning ALTOS® figure-8 gel-filled 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. 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

### Figure-8 cable design

Easy, one-step installation

### Innovative waterblocking design

Provides efficient and craft-friendly cable preparation

### Medium-density polyethylene jacket

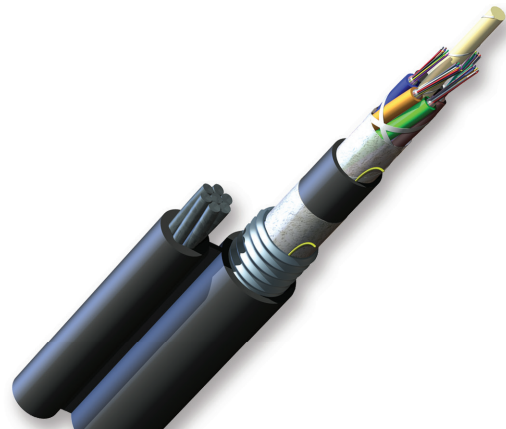
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

## Standards

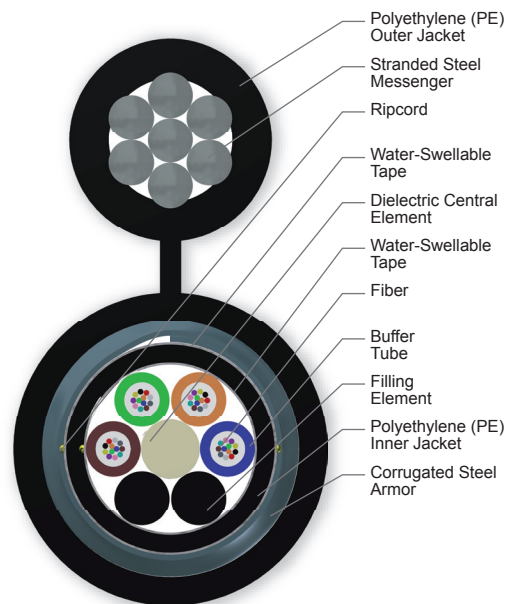
|                               |                                       |
|-------------------------------|---------------------------------------|
| <b>Approvals and Listings</b> | RDUP 7 CFR 1755.900<br>(formerly RUS) |
|-------------------------------|---------------------------------------|

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Common Installations</b> | Outdoor self-supporting<br>aerial |
|-----------------------------|-----------------------------------|

|                                 |                    |
|---------------------------------|--------------------|
| <b>Design and Test Criteria</b> | ANSI/ICEA S-87-640 |
|---------------------------------|--------------------|



Part Number: 048EUB-T4101A20



Cross Section of Part Number: 048EUB-T4101A20

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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                                                                 |
| 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                                                                   |

### Mechanical Characteristics Cable

|                        |                            |
|------------------------|----------------------------|
| Weight                 | 403 kg/km (270 lb/1000 ft) |
| Nominal Outer Diameter | 14.3 mm (0.56 in)          |

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## Mechanical Characteristics Cable

|                               |                   |
|-------------------------------|-------------------|
| 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) |

## 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         | 048EUB-T4101A20                                                                |
| Product Description | ALTOS® Figure-8 Loose Tube, Gel-Filled, Armored Cable, 48 F, Single-mode (OS2) |
| EAN Code            | 4056418159768                                                                  |



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