

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

144 F, Single-mode (OS2)

CORNING

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-swappable 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)

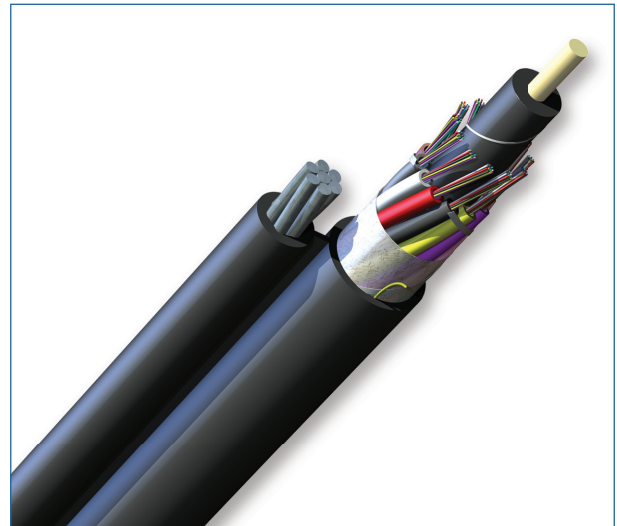
Figure-8 cable design

Easy, one-step installation

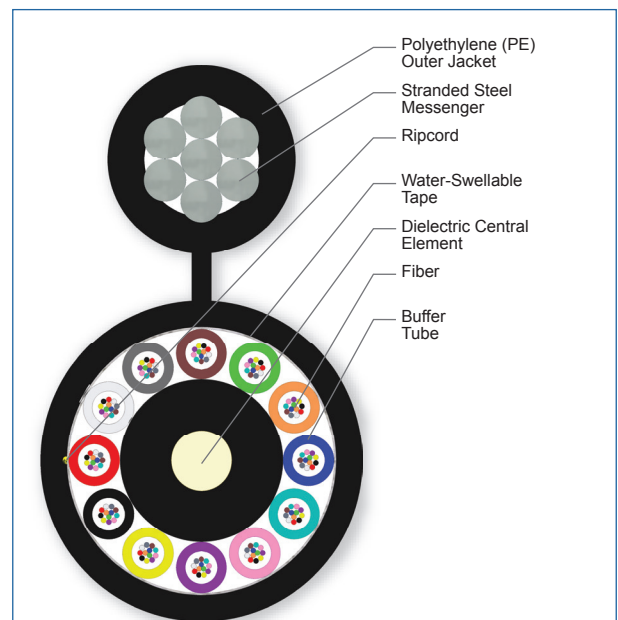
Standards

| | |
|-----------------------------|--------------------------------|
| Common Installations | Outdoor self-supporting aerial |
|-----------------------------|--------------------------------|

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



Part Number: 144EUA-T4101D20



Cross Section of Part Number: 144EUA-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 | 144 |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |
| Number of Tube Positions | 12 |
| Number of Active Tubes | 12 |
| Buffer Tube Color Coding | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Tape | Water-swellable |
| Number of Ripcords | 1 |
| Outer Jacket Material | Polyethylene (PE) |
| Outer Jacket Color | Black |
| Messenger | Stranded steel |
| Maximum Fibers per Tube | 12 |

Mechanical Characteristics Cable

| | |
|------------------------|----------------------------|
| Weight | 386 kg/km (259 lb/1000 ft) |
| Nominal Outer Diameter | 15.8 mm (0.62 in) |
| Nominal Cable Height | 27.4 mm (1.08 in) |

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Mechanical Characteristics Cable

| | |
|-------------------------------|-----------------|
| Min. Bend Radius Installation | 237 mm (9.3 in) |
| Min. Bend Radius Operation | 158 mm (6.2 in) |

Maximum Span with One-Percent Installation Sag

| | |
|--|----------------|
| Maximum Span with 1% Installation Sag, NESC Light | 216 m (710 ft) |
| Maximum Span with 1% Installation Sag, NESC Medium | 201 m (660 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 |
|------|---|

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 | 144EUA-T4101D20 |
| Product Description | ALTOS® Figure-8 Loose Tube, Gel-Free Cable, 144 F, Single-mode (OS2) |
| EAN Code | 4056418177090 |

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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

Notes



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