

ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable

12 F, Single-mode (OS2)

CORNING

Corning ALTOS® gel-free, low-temperature cables are designed for extreme cold temperature environments with an extended operating range of -50° to +70°C (-58° to +158°F). Armored jackets allow for duct, direct-buried or aerial (lashed) installation.

Features and Benefits

Extended operating temperature range of -50° to +70°C (-58° to +158°F)

Allows for operation at extreme low temperatures

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

Gel-free waterblocking technology

Craft-friendly cable preparation

Dielectric central strength member

No preferential bend and requires no bonding or grounding

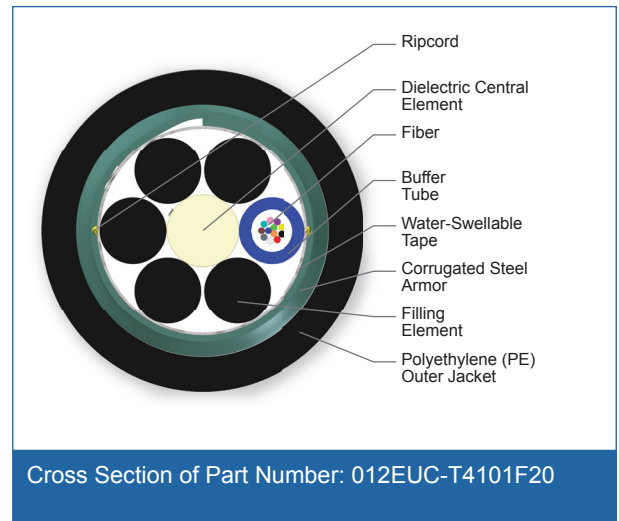
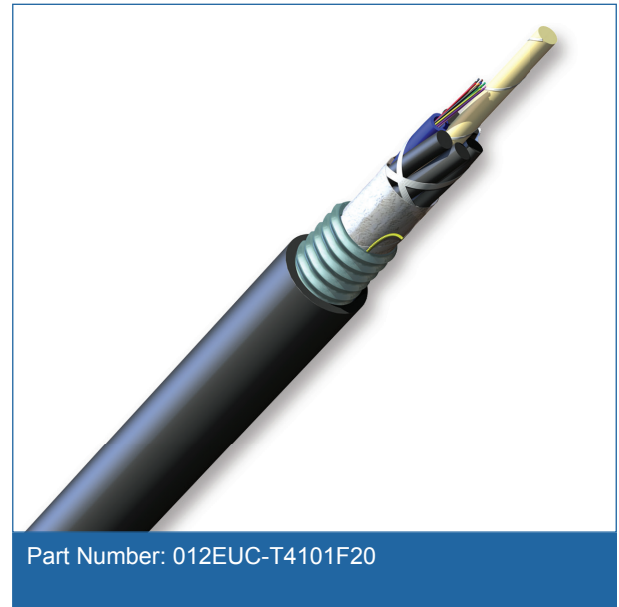
Medium-density polyethylene jacket

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

Standards

Approvals and Listings USDA Rural Development Programs

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



Specifications

| General Specifications | |
|------------------------|-----------------------------|
| Environment | Outdoor |
| Application | Aerial, Direct Buried, Duct |
| Cable Type | Loose Tube |

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General Specifications

| | |
|----------------|-------------------|
| Product Type | Armored |
| Fiber Category | Single-mode (OS2) |

Temperature Range

| | |
|--------------|------------------------------------|
| Storage | -50 °C to 70 °C (-58 °F to 158 °F) |
| Installation | -30 °C to 70 °C (-22 °F to 158 °F) |
| Operation | -50 °C to 70 °C (-58 °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-swellable |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor |
| Number of Ripcords | 2 |
| Outer Jacket Material | Polyethylene (PE) |
| Outer Jacket Color | Black |

Mechanical Characteristics Cable

| | |
|-----------------------------------|---------------------------|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf) |
| Max. Tensile Strength, Long-Term | 890 N (200 lbf) |
| Weight | 129 kg/km (87 lb/1000 ft) |
| Nominal Outer Diameter | 12.1 mm (0.48 in) |
| Min. Bend Radius Operation | 182 mm (7.1 in) |
| Min. Bend Radius Installation | 121 mm (4.8 in) |

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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 | 012EUC-T4101F20 |
| Product Description | ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable, 12 F, Single-mode (OS2) |
| EAN Code | 4056418161976 |



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