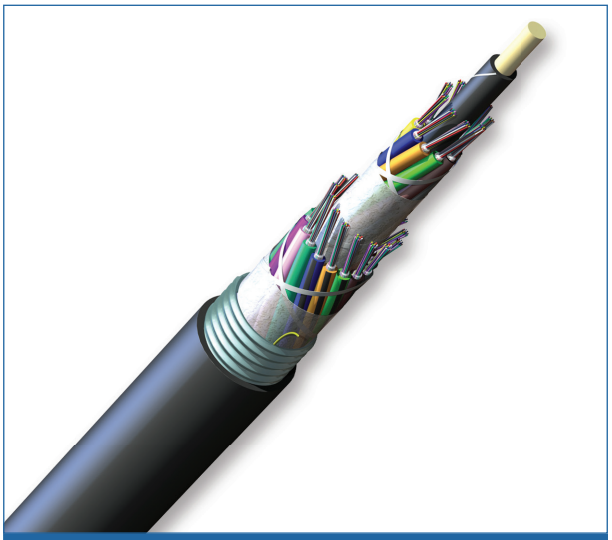
# ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable

## 288 F, Single-mode (OS2)

CORNING

Corning ALTOS® low-temperature cables are designed for extreme cold temperature environments with an extended operating range of -50º to +70ºC (-58º to +158ºF). Dielectric and armored jackets allow for duct, direct-buried or aerial (lashed) installation.



Part Number: 288EUC-T4101C20

## Features and Benefits

**Extended operating temperature range of -50º to +70ºC (-58º to +158ºF)**
Allows for operation at extreme low temperatures

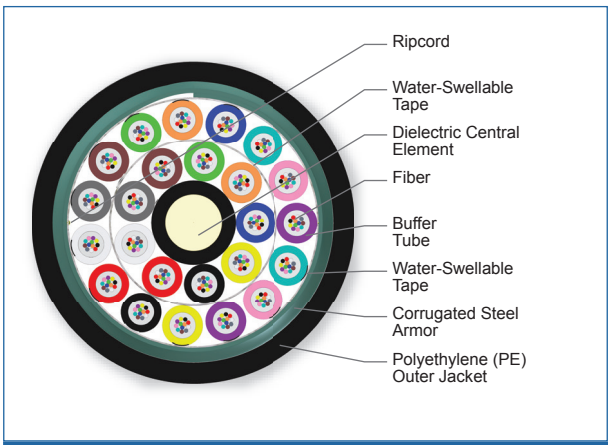
**Flexible, craft-friendly buffer tubes**
Facilitate easy routing in closures

**Innovative waterblocking design**
Provides efficient and craft-friendly cable preparation

**SZ-stranded, loose tube design**
Isolates fibers from installation and environmental rigors and facilitates mid-span access

**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)




Cross Section of Part Number: 288EUC-T4101C20

## Standards

| | |
|---|---|
| **Approvals and Listings** | USDA Rural Development Programs |
| **Common Installations** | Designed for Direct-Buried and Aerial Applications |
| **Design and Test Criteria** | Telcordia GR-20, ICEA-640 |

## Specifications

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



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

## 288 F, Single-mode (OS2)

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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 | 288 |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |
| Number of Tube Positions | 24 |
| Number of Active Tubes | 24 |
| Buffer Tube Color Coding, Layer 1 | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Tape | Water-swellable |
| Buffer Tube Color Coding, Layer 2 | Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua* |
| Tape, Layer 2 | Water-swellable |
| Inner Jacket Material | Polyethylene (PE) |
| Tape, Layer 3 | Water-swellable |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor |
| Number of Ripcords | 3 |
| Outer Jacket Material | Polyethylene (PE) |
| Outer Jacket Color | Black |

Notes: *Tubes 13 to 24 include a co-extruded stripe that is white for the black tube and black for all other tube colors.*

| Mechanical Characteristics Cable | |
|---|---|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf) |
| Max. Tensile Strength, Long-Term | 890 N (200 lbf) |
| Weight | 323 kg/km (217 lb/1000 ft) |



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**288 F, Single-mode (OS2)**

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| Mechanical Characteristics Cable | |
|---|---|
| Nominal Outer Diameter | 20 mm (0.79 in) |
| Min. Bend Radius Installation | 300 mm (11.8 in) |
| Min. Bend Radius Operation | 200 mm (7.9 in) |

| 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 | 288EUC-T4101C20 |
| Product Description | ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled Single-Jacket, Single-Armored Cable, 288 F, Single-mode (OS2) |
| EAN Code | 4056418165820 |

RoHS COMPLIANT

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