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

## 72 F, 50 µm multimode (OM2)

CORNING

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

## 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

**Gel-free waterblocking technology**
Craft-friendly cable preparation

**Dielectric central strength member**
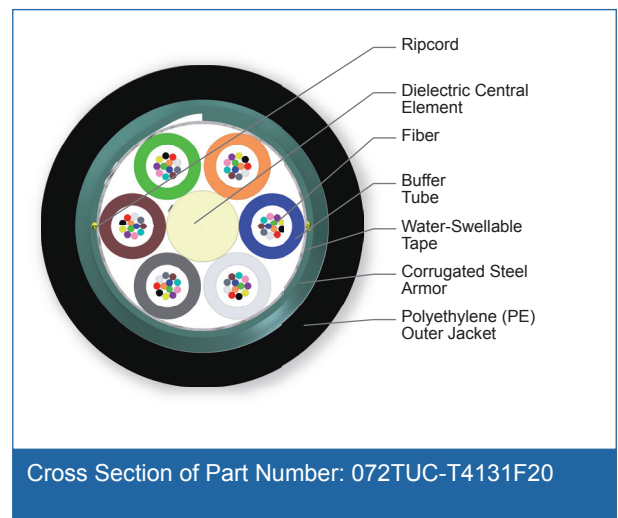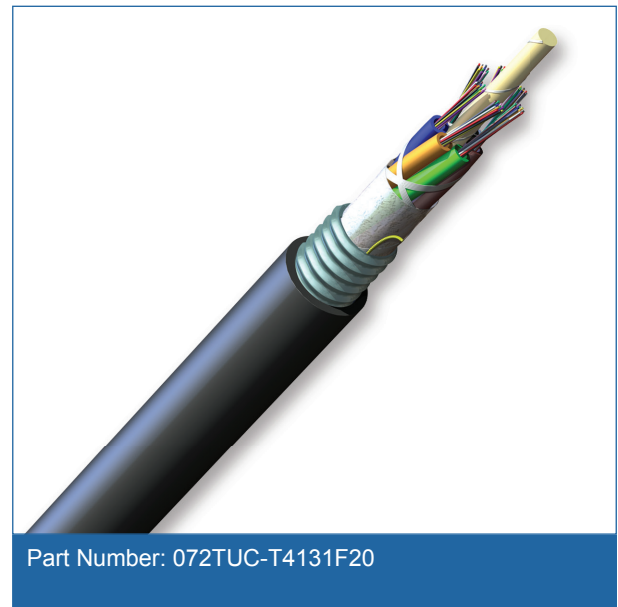No preferential bend and requires no bonding or grounding

**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 |



Part Number: 072TUC-T4131F20



Ripcord
Dielectric Central Element
Fiber
Buffer Tube
Water-Swellable Tape
Corrugated Steel Armor
Polyethylene (PE) Outer Jacket

Cross Section of Part Number: 072TUC-T4131F20

## 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 | 50 µm MM (OM2) |

## 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 | 72 |
| 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 | 6 |
| Buffer Tube Color Coding | Blue, Orange, Green, Brown, Slate, White |
| Buffer Tube Diameter | 2.5 mm   (0.1 in) |
| 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 Core Diameter | 50 µm |
| Fiber Category | OM2 |
| Fiber Code | T |
| Performance Option Code | 31 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 3.0 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet | 750 m / 500 m |
| Serial 10 Gigabit Ethernet | 150 m / - |
| Min. Overfilled Launch (OFL) Bandwidth | 700 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 950 MHz*km / - |

Notes:
1) *50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
2) *Improved attenuation and bandwidth options available.*
3) *Bend-insensitive single-mode fibers available on request.*
4) *Contact a Corning Customer Care Representative for additional information.*

## Ordering Information

| Part Number | 072TUC-T4131F20 |
| --- | --- |
| Product Description | ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable, 72 F, 50 µm multimode (OM2) |
| EAN Code | 4056418163680 |

**RoHS** COMPLIANT

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