

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

12 F, 50 µm multimode (OM2)

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Corning ALTOS® Lite™ single-jacket, single-armored cables are lightweight, reduced-diameter, armored cables designed for direct-buried, duct and aerial (lashed) installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

## Features and Benefits

### Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

### 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

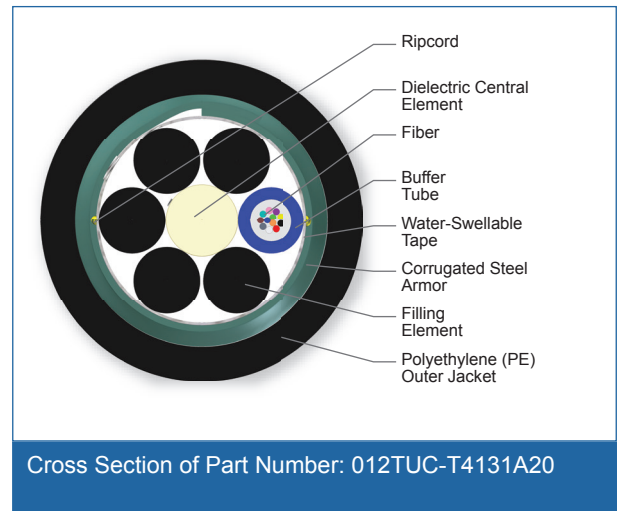
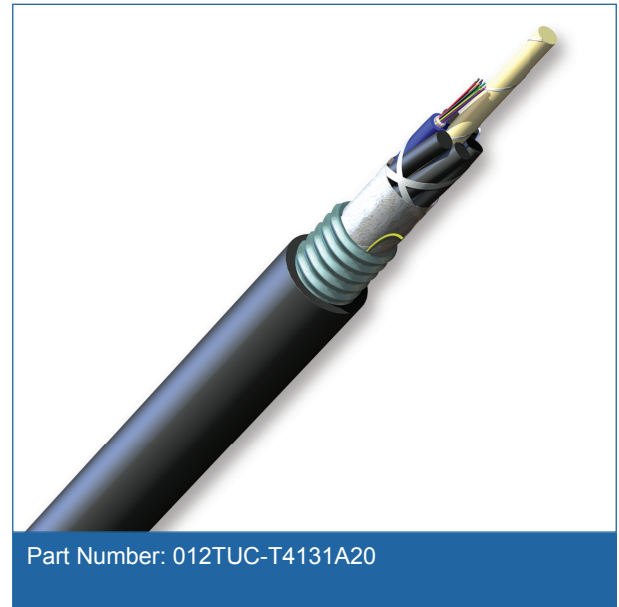
### Medium-density polyethylene jacket

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

## Standards

**Approvals and Listings** USDA Rural Development Programs

**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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## General Specifications

|                |                |
|----------------|----------------|
| Product Type   | Armored        |
| Fiber Category | 50 µm MM (OM2) |

## 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                                         | 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                                                                  |
| Number of Ripcords                                  | 2                                                                                |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor                                                      |
| 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                            | 136 kg/km (91 lb/1000 ft) |
| Nominal Outer Diameter            | 12.1 mm (0.48 in)         |
| Min. Bend Radius Installation     | 182 mm (7.1 in)           |
| Min. Bend Radius Operation        | 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         | 012TUC-T4131A20                                                                                      |
| Product Description | ALTOS® Lite™ Loose Tube, Gel-Filled Single-Jacket, Single-Armored Cable, 12 F, 50 µm multimode (OM2) |
| EAN Code            | 4056418172378                                                                                        |



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