

# ALTOS® Loose Tube, Gel-Filled, Double-Jacket Cable

48 F, 50 µm multimode (OM2)

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Corning ALTOS® double-jacket dielectric cables are designed for duct and aerial (lashed) installation. The double-jacket construction adds a layer of protection for harsh environments. The loose tube cable design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

## Features and Benefits

### Two jacket layers

Provides extra protection in harsh environments

### Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

### Innovative waterblocking design

Provides efficient and 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)

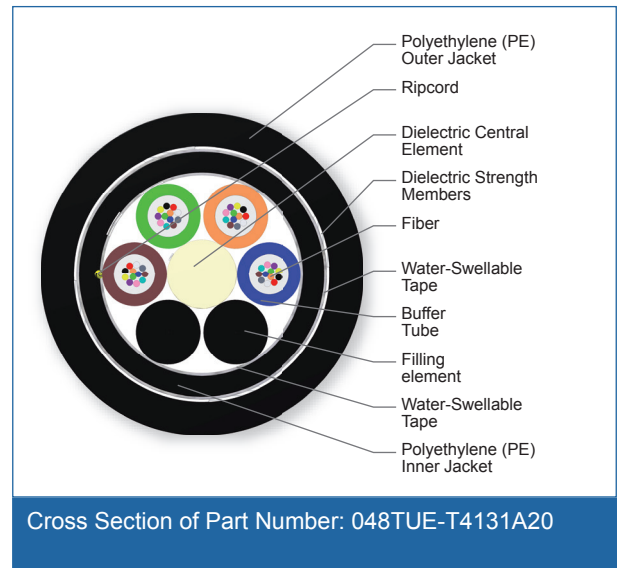
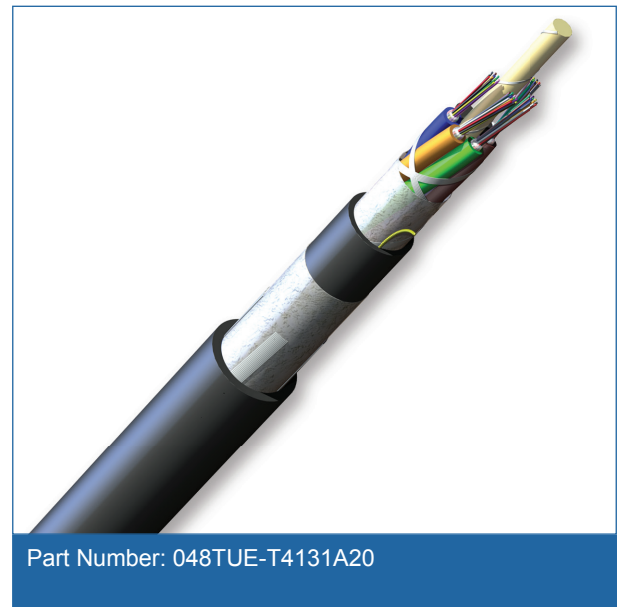
### Exceeds the RDUP requirements for mid-span buffer tube slack storage

Provides flexibility for mid-span access applications

## Standards

**Approvals and Listings**    USDA Rural Development Programs

**Design and Test Criteria**    Telcordia GR-20, ICEA-640



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## Specifications

| General Specifications |                |
|------------------------|----------------|
| Environment            | Outdoor        |
| Application            | Aerial, Duct   |
| Cable Type             | Loose Tube     |
| Product Type           | Dielectric     |
| 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   | 48   |
| 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                              | 4  |
| Buffer Tube Color Coding                            | Blue, Orange, Green, Brown   |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)  |
| Number of Filling Elements                          | 2  |
| Tape  | Water-swellable  |
| Inner Jacket Material                               | Polyethylene (PE)  |
| Tape, Layer 2                                       | Water-swellable  |
| Number of Ripcords                                  | 1  |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members  |
| Outer Jacket Material                               | Polyethylene (PE)  |
| Outer Jacket Color                                  | Black  |
| Maximum Fibers per Tube                             | 12   |

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## Mechanical Characteristics Cable

|                                   |                           |
|-----------------------------------|---------------------------|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf)          |
| Max. Tensile Strength, Long-Term  | 890 N (200 lbf)           |
| Weight                            | 114 kg/km (76 lb/1000 ft) |
| Nominal Outer Diameter            | 12.5 mm (0.49 in)         |
| Min. Bend Radius Installation     | 188 mm (7.4 in)           |
| Min. Bend Radius Operation        | 125 mm (4.9 in)           |

## 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  $\leq 0.2$  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         | 048TUE-T4131A20   |
| Product Description | ALTOS® Loose Tube, Gel-Filled, Double-Jacket Cable, 48 F, 50 µm multimode (OM2) |

# ALTOS<sup>®</sup> Loose Tube, Gel-Filled, Double-Jacket Cable

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The CORNING logo is displayed in white, uppercase letters within a solid blue square.

## Notes



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