

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

60 F, 50 µm multimode (OM2)

CORNING

Corning ALTOS® low-temperature cables are designed for extreme cold temperature environments with an extended operating range of -50° to +70°C (-58° to +158°F). Dielectric and 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

**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**

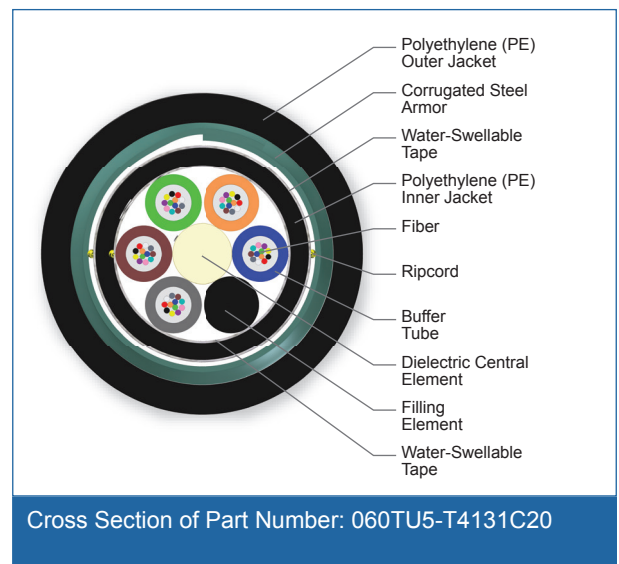
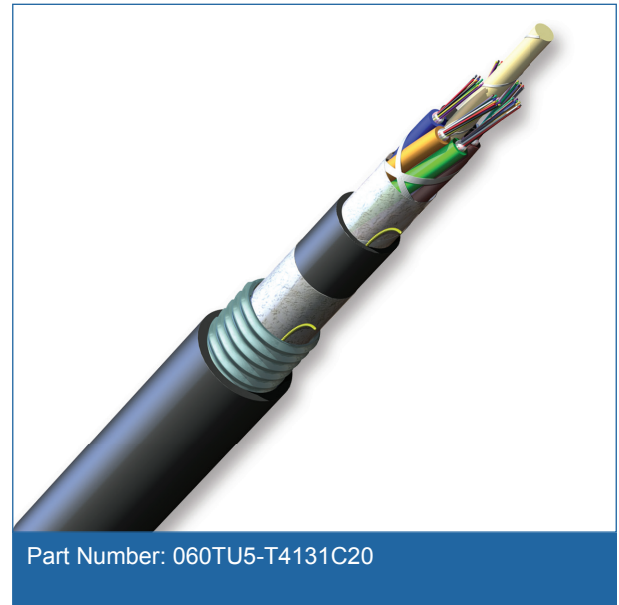
No preferential bend and requires no bonding or grounding

**Medium-density polyethylene jacket**

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

## Standards

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



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## Specifications

### General Specifications

|                |                       |
|----------------|-----------------------|
| Environment    | Outdoor               |
| Application    | Aerial, Direct Buried |
| Cable Type     | Loose Tube            |
| 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                                         | 60                                                                               |
| 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                              | 5                                                                                |
| Buffer Tube Color Coding                            | Blue, Orange, Green, Brown, Slate                                                |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)                                                                  |
| Number of Filling Elements                          | 1                                                                                |
| Tape                                                | Water-swellaable                                                                 |
| Inner Jacket Material                               | Polyethylene (PE)                                                                |
| Tape, Layer 2                                       | Water-swellaable                                                                 |
| 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                                                                            |

### Mechanical Characteristics Cable

|                                   |                  |
|-----------------------------------|------------------|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf) |
| Max. Tensile Strength, Long-Term  | 890 N (200 lbf)  |

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## Mechanical Characteristics Cable

|                               |                            |
|-------------------------------|----------------------------|
| Weight                        | 179 kg/km (120 lb/1000 ft) |
| Nominal Outer Diameter        | 14.3 mm (0.56 in)          |
| Min. Bend Radius Installation | 215 mm (8.4 in)            |
| Min. Bend Radius Operation    | 143 mm (5.6 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         | 060TU5-T4131C20                                                                                                  |
| Product Description | ALTOS® Low-Temperature, Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable, 60 F, 50 µm multimode (OM2) |
| EAN Code            | 4056418158679                                                                                                    |

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## Notes



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