

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

48 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

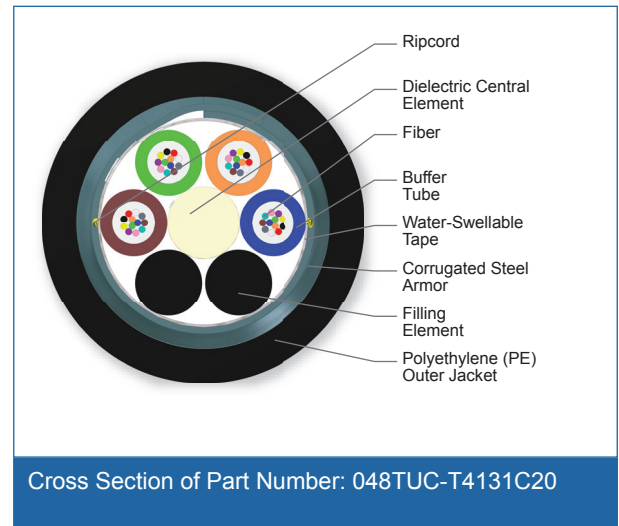
Isolates fibers from installation and environmental rigors and facilitates mid-span access

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

| | |
|---------------------------------|--|
| 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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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 | 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 |
| 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) |
| 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 | 048TUC-T4131C20 |
| Product Description | ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable, 48 F, 50 µm multimode (OM2) |
| EAN Code | 4056418159355 |



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