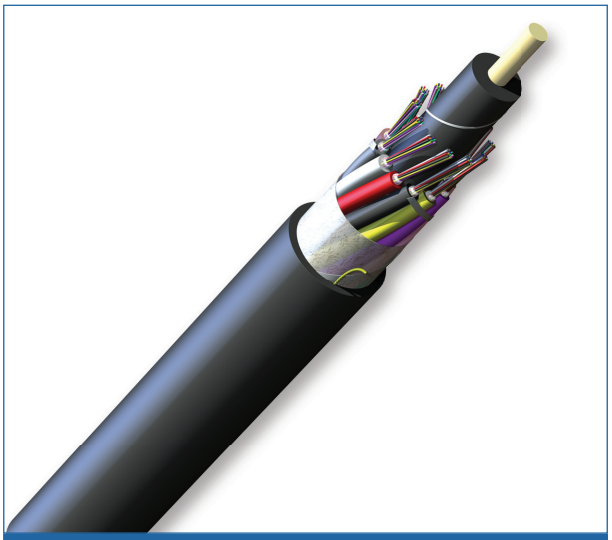
# ALTOS® Loose Tube, Gel-Filled Cable

## 144 F, 50 µm multimode (OM2)

CORNING

Corning ALTOS® all-dielectric cables are lightweight cables designed for 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.



Part Number: 144TU4-T4131A20

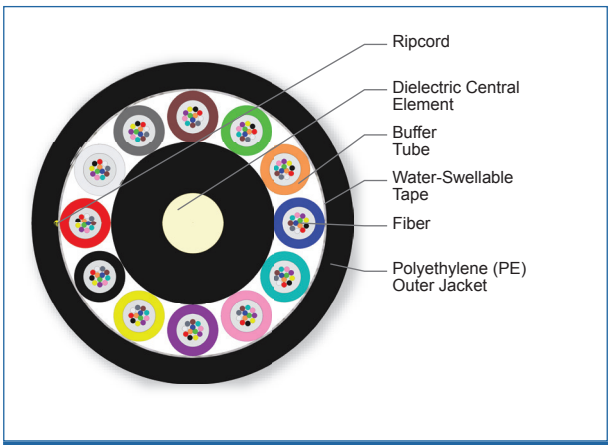
## Features and Benefits

**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)




Cross Section of Part Number: 144TU4-T4131A20

## Standards

| | |
|---|---|
| **Approvals and Listings** | USDA Rural Development Programs |
| **Design and Test Criteria** | Telcordia GR-20, ICEA-640 |

## Specifications

| General Specifications | |
|---|---|
| Environment | Outdoor |
| Application | Aerial, Duct |
| Cable Type | Loose Tube |



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## 144 F, 50 µm multimode (OM2)

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| General Specifications | |
|---|---|
| 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 | 144 |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |
| Number of Tube Positions | 12 |
| Number of Active Tubes | 12 |
| Buffer Tube Color Coding | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Tape | Water-swellable |
| Number of Ripcords | 1 |
| Outer Jacket Material | Polyethylene (PE) |
| Outer Jacket Color | Black |
| Maximum Fibers per Tube | 12 |

| Mechanical Characteristics Cable | |
|---|---|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf) |
| Max. Tensile Strength, Long-Term | 890 N (200 lbf) |
| Weight | 177 kg/km (119 lb/1000 ft) |
| Nominal Outer Diameter | 15.8 mm (0.62 in) |
| Min. Bend Radius Installation | 237 mm (9.3 in) |
| Min. Bend Radius Operation | 158 mm (6.2 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 | 144TU4-T4131A20 |
| Product Description | ALTOS® Loose Tube, Gel-Filled Cable, 144 F, 50 µm multi-mode (OM2) |
| EAN Code | 4056418167466 |

RoHS COMPLIANT

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