# ALTOS® Double-Jacket, Single-Armored Cables, 12-432 Fibers, Enhanced

## 48 F, 62.5 µm multimode (OM1)

CORNING

ALTOS® double-jacket, single-armored cables are rugged, armored cables designed for direct-buried installation while suitable 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.

## Features and Benefits

**Flexible, craft-friendly buffer tubes**
Facilitate easy routing in closures

**Two jacket layers and two steel tape armor layers**
Provide superior rodent resistance for direct-buried applications

**Innovative waterblocking design**
Provides efficient and craft-friendly cable preparation

**Dielectric central strength member**
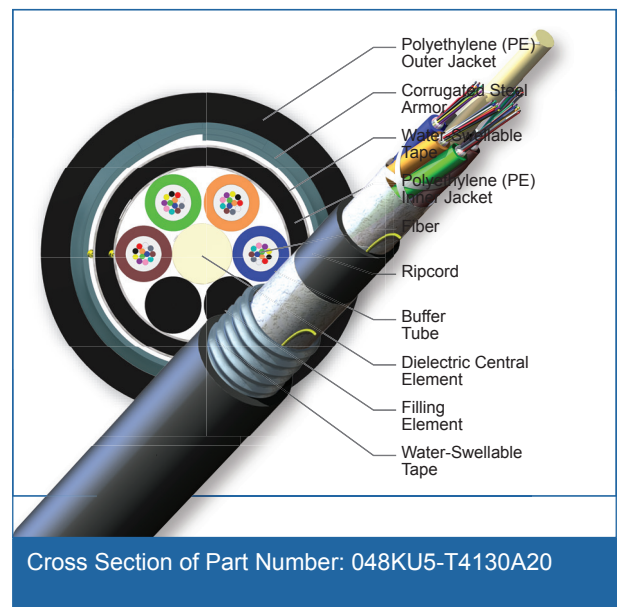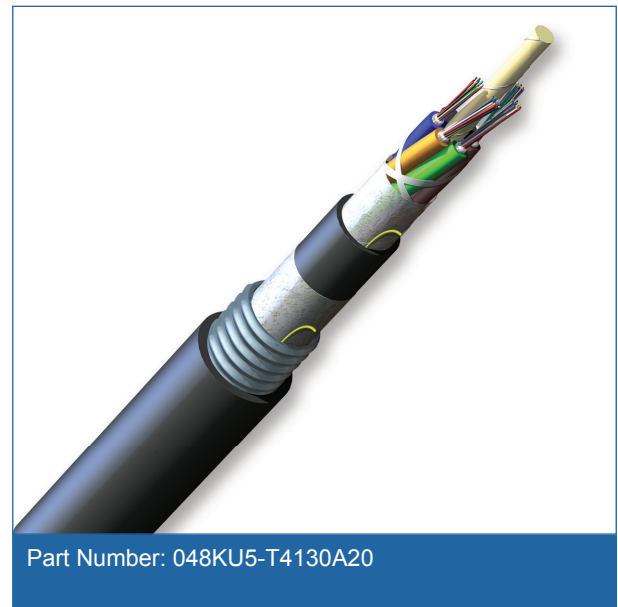No preferential bend and requires no bonding or grounding

**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 |



Part Number: 048KU5-T4130A20



Polyethylene (PE) Outer Jacket
Corrugated Steel Armor
Water-Swellable Tape
Polyethylene (PE) Inner Jacket
Fiber
Ripcord
Buffer Tube
Dielectric Central Element
Filling Element
Water-Swellable Tape

Cross Section of Part Number: 048KU5-T4130A20

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## Specifications

| General Specifications | |
|---|---|
| Environment | Outdoor |
| Application | Aerial, Direct Buried |
| Cable Type | Loose Tube |
| Product Type | Armored |
| Fiber Category | 62.5 µm MM (OM1) |

| 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 | 3 |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor |
| 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 | 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 | 62.5 µm |
| Fiber Category | OM1 |
| Fiber Code | K |
| Performance Option Code | 30 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 3.4 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet | 300 m / 550 m |
| Serial 10 Gigabit Ethernet | 33 m / - |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 220 MHz*km / - |

Notes:   1) *Improved attenuation and bandwidth options available.*
2) *Bend-insensitive single-mode fibers available on request.*
3) *Contact a Corning Customer Care Representative for additional information.*

## Ordering Information

| Part Number | 048KU5-T4130A20 |
|---|---|
| Product Description | ALTOS® Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable, 48 F, 62.5 µm multimode (OM1) |
| EAN Code | 4056418164243 |

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## Notes

**RoHS COMPLIANT**

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