

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

216 F, 62.5 μm multimode (OM1)

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Corning ALTOS® triple-jacket, double-armored cables are rugged, armored cables designed for direct-buried installations. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

## Features and Benefits

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

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

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

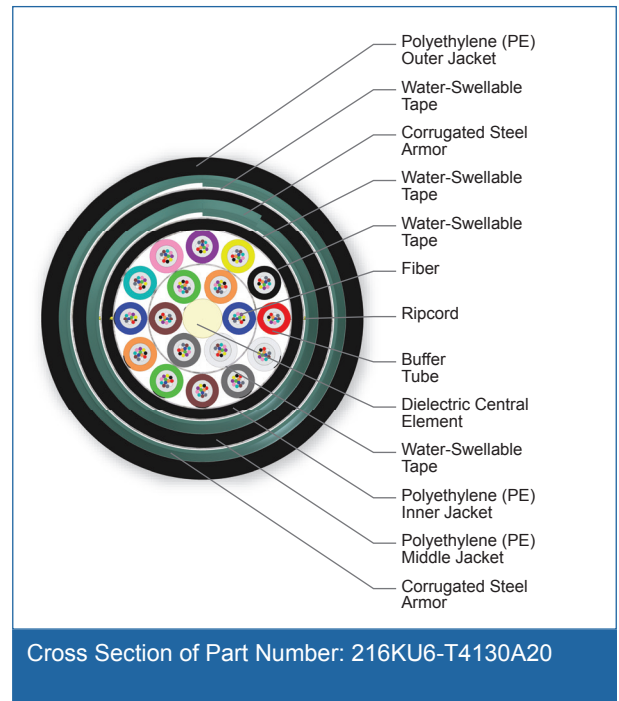
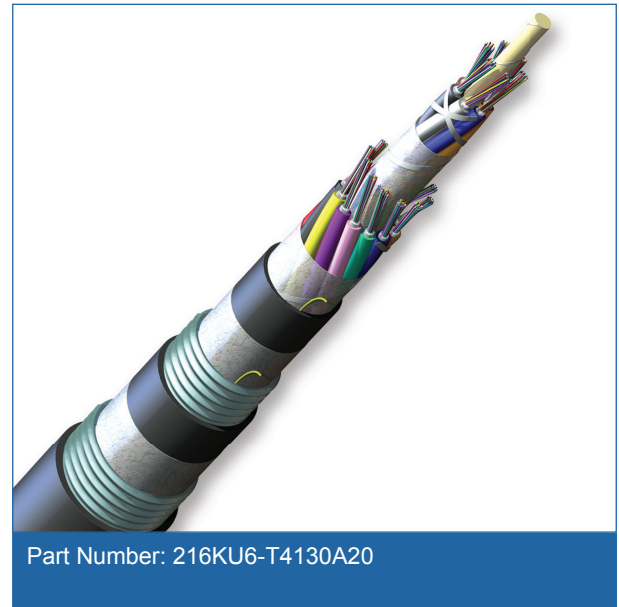
**Medium-density polyethylene jacket**  
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

**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            | 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   | 216  |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua       |
| Fibers per Tube                                     | 12   |
| Number of Tube Positions                            | 18   |
| Number of Active Tubes                              | 18   |
| Buffer Tube Color Coding, Layer 1                   | Blue, Orange, Green, Brown, Slate, White   |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)  |
| Tape  | Water-swellaable   |
| Buffer Tube Color Coding, Layer 2                   | Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White* |
| Tape, Layer 2                                       | Water-swellaable   |
| Inner Jacket Material                               | Polyethylene (PE)  |
| Tape, Layer 3                                       | Water-swellaable   |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor  |
| Intermediate Jacket Material                        | Polyethylene (PE)  |
| Tape, Layer 4                                       | Water-swellaable   |
| Number of Ripcords                                  | 5  |
| Tensile Strength Elements and/or Armoring - Layer 2 | Corrugated steel tape armor  |
| Outer Jacket Material                               | Polyethylene (PE)  |

Notes: Tubes 13 to 24 include a co-extruded stripe that is white for the black tube and black for all other tube colors.

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

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## Cable Design

|                         |       |
|-------------------------|-------|
| Outer Jacket Color      | Black |
| Maximum Fibers per Tube | 12    |

Notes: Tubes 13 to 24 include a co-extruded stripe that is white for the black tube and black for all other tube colors.

## Mechanical Characteristics Cable

|                                   |                            |
|-----------------------------------|----------------------------|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf)           |
| Max. Tensile Strength, Long-Term  | 890 N (200 lbf)            |
| Weight                            | 496 kg/km (333 lb/1000 ft) |
| Nominal Outer Diameter            | 24.0 mm (0.94 in)          |
| Min. Bend Radius Installation     | 360 mm (14.2 in)           |
| Min. Bend Radius Operation        | 240 mm (9.4 in)            |

## Chemical Characteristics

|      |   |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
|------|---|

## Fiber Specifications

### Optical Characteristics (cabled)

|   |                         |
|---|-------------------------|
| Fiber Core Diameter                     | 62.5 $\mu$ m            |
| 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.

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## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | 216KU6-T4130A20  |
| Product Description | ALTOS® Loose Tube, Gel-Filled, Triple-Jacket, Double-Armored Cable, 216 F, 62.5 µm multimode (OM1) |



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