

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

432 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

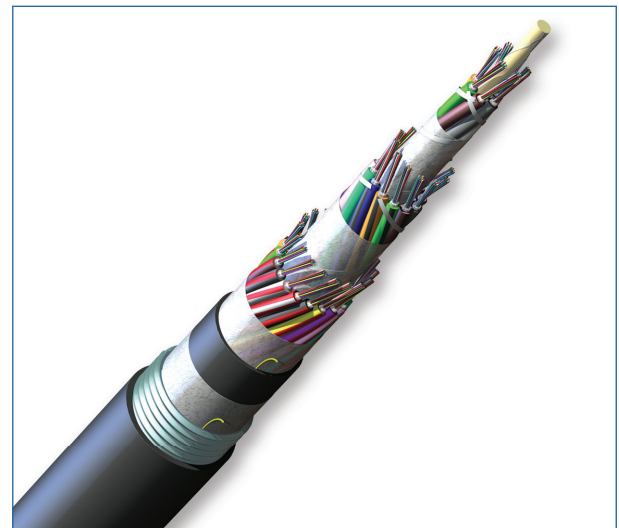
### Medium-density polyethylene jacket

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

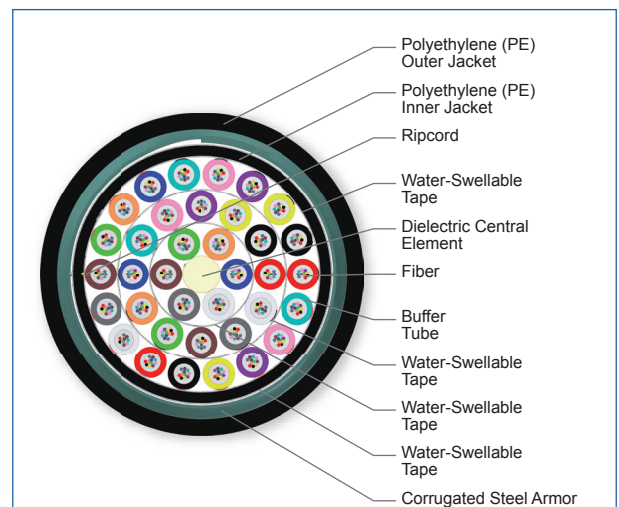
## Standards

**Approvals and Listings**     USDA Rural Development Programs

**Design and Test Criteria**     Telcordia GR-20, ICEA-640



Part Number: 432KU5-T4130A20



Cross Section of Part Number: 432KU5-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   | 432  |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua   |
| Fibers per Tube                                     | 12   |
| Number of Tube Positions                            | 36   |
| Number of Active Tubes                              | 36   |
| Buffer Tube Color Coding, Layer 1                   | Blue, Orange, Green, Brown, Slate, White   |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)  |
| Tape  | Water-swellable  |
| Buffer Tube Color Coding, Layer 2                   | Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*   |
| Tape, Layer 2                                       | Water-swellable  |
| Buffer Tube Color Coding, Layer 3                   | Red*, Black*, Yellow*, Violet*, Rose*, Aqua*, Blue**, Orange**, Green**, Brown**, Slate**, White**, Red**, Black**, Yellow**, Violet**, Rose**, Aqua** |
| Tape, Layer 3                                       | Water-swellable  |
| Inner Jacket Material                               | Polyethylene (PE)  |
| Tape, Layer 4                                       | Water-swellable  |
| Number of Ripcords                                  | 3  |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor  |
| Outer Jacket Material                               | Polyethylene (PE)  |

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## Cable Design

|                         |                   |
|-------------------------|-------------------|
| Outer Jacket Material   | Polyethylene (PE) |
| 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.

Notes: Tubes 25 to 36 include a co-extruded stripe that is white for the red tube and red 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                            | 469 kg/km (315 lb/1000 ft) |
| Nominal Outer Diameter            | 25.4 mm (1.0 in)           |
| Min. Bend Radius Installation     | 381 mm (15.0 in)           |
| Min. Bend Radius Operation        | 254 mm (10.0 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.

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## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | 432KU5-T4130A20  |
| Product Description | ALTOS® Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable, 432 F, 62.5 µm Multimode (OM1) |



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