

# ALTOS® Loose Tube, Gel-Filled Cable

432 F, Single-mode (OS2)

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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.

## 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

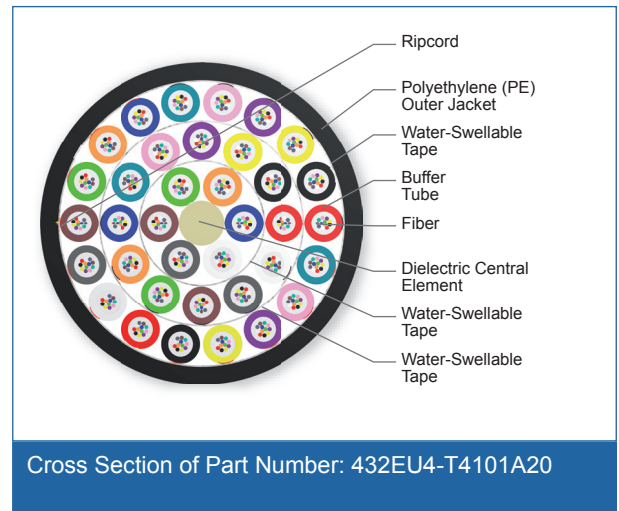
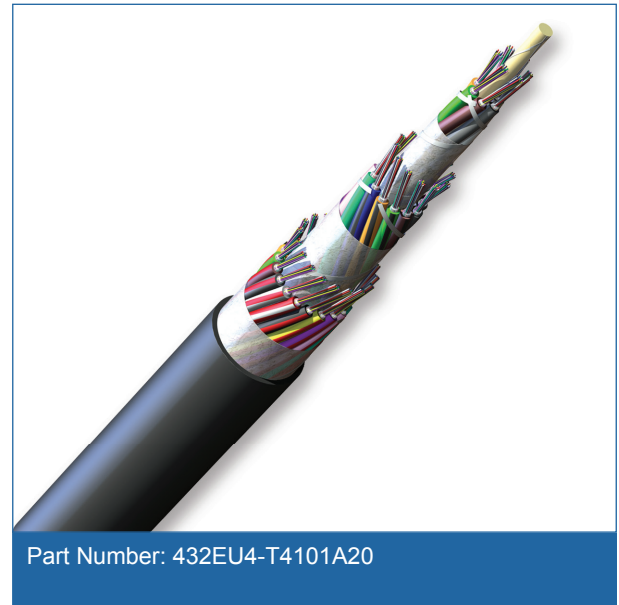
### Medium-density polyethylene jacket

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

## 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    | Aerial, Duct      |
| Cable Type     | Loose Tube        |
| Product Type   | Dielectric        |
| Fiber Category | Single-mode (OS2) |

### 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  |
| Number of Ripcords                | 1  |
| 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.

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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                            | 288 kg/km (194 lb/1000 ft) |
| Nominal Outer Diameter            | 21.2 mm (0.83 in)          |
| Min. Bend Radius Installation     | 318 mm (12.5 in)           |
| Min. Bend Radius Operation        | 212 mm (8.3 in)            |

## Chemical Characteristics

|      |   |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|---|

## Fiber Specifications

### Optical Characteristics (cabled)

|                         |                                   |
|-------------------------|-----------------------------------|
| Fiber Name              | Single-mode (OS2)                 |
| Fiber Category          | G.652.D                           |
| Fiber Code              | E                                 |
| Performance Option Code | 01                                |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm       |
| Maximum Attenuation     | 0.4 dB/km / 0.4 dB/km / 0.3 dB/km |

## Ordering Information

|                     |   |
|---------------------|---|
| Part Number         | 432EU4-T4101A20   |
| Product Description | ALTOS® Loose Tube, Gel-Filled Cable, 432 F, Single-mode (OS2) |
| EAN Code            | 4056418155647   |



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