

ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable

216 F, Single-mode (OS2)

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Corning ALTOS® gel-free double-jacket, dielectric cables are designed for duct and aerial (lashed) installation. The double-jacket construction adds a layer of protection for harsh environments. The loose tube cable design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Two jacket layers

Provides extra protection in harsh environments

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

Gel-free waterblocking technology

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

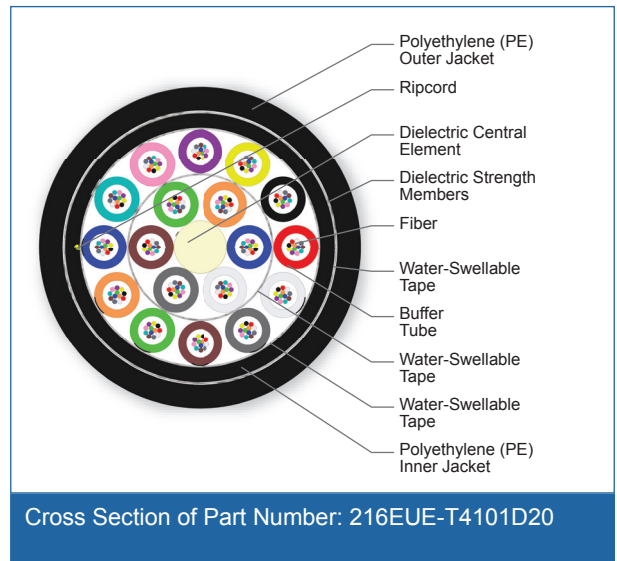
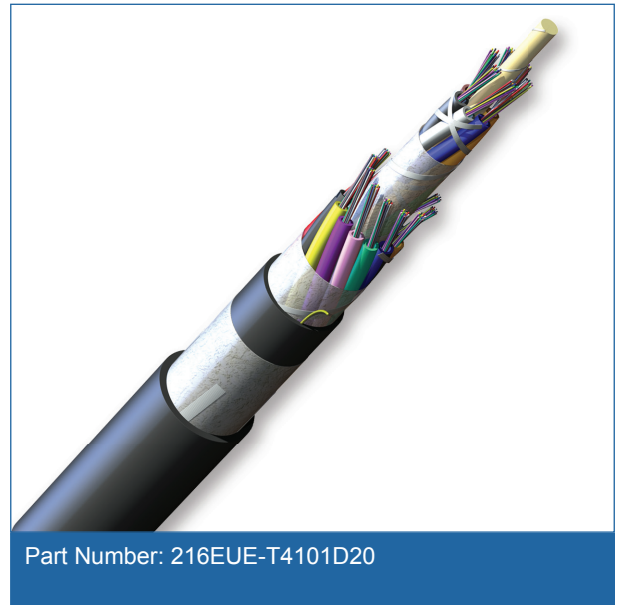
Standards

Approvals and Listings

RDUP (RUS) Listed
Material acceptability

Design and Test Criteria

ANSI/ICEA S-87-640



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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 | 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 |
| Number of Ripcords | 1 |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| 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.

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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 | 195 kg/km (131 lb/1000 ft) |
| Nominal Outer Diameter | 17.9 mm (0.70 in) |
| Min. Bend Radius Installation | 269 mm (10.6 in) |
| Min. Bend Radius Operation | 179 mm (7 in) |

Chemical Characteristics

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

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 | 216EUE-T4101D20 |
| Product Description | ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable, 216 F, Single-mode (OS2) |



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