

ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable 288 F, Single-mode (OS2)



Part Number:
288EUC-T4100D20

Corning ALTOS® Lite gel-free, single-jacket, single-armored cables are designed for campus backbones in direct-buried installations. The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. These cables also provide high-fiber density within a given cable diameter while allowing flexibility to suit many system configurations. The single armored construction provides additional crush and rodent protection with a high-strength ripcord under the armor for easy stripping. Gel-free means the cables are fully waterblocked using craft-friendly, water-swellable materials which make cable access simple and require no clean up. The flexible, craft-friendly buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy mid-span access. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.

Features and Benefits

Gel-free waterblocking technology

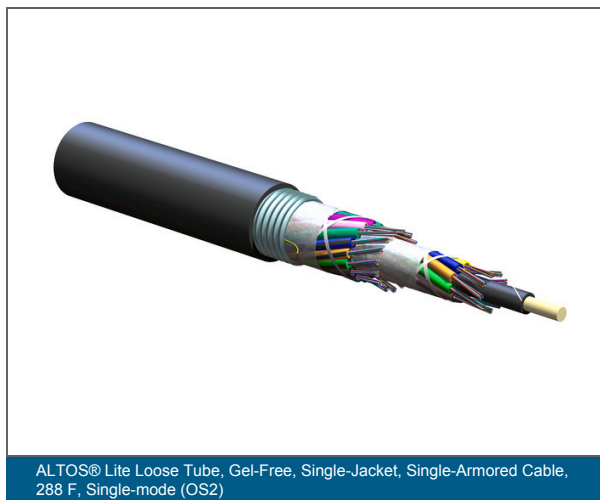
Craft-friendly cable preparation

Polyethylene jacket

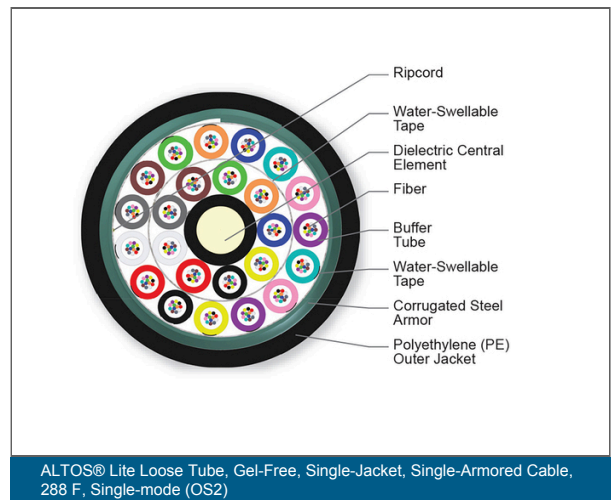
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

Corrugated steel tape armor

Provides rodent resistance for direct-buried applications



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Product Specification 288EUC-T4100D20_NAFTA_AEN

Page 1 | Revision Date 2024-04-10

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Specifications

| General Specifications | |
|------------------------|-----------------------------|
| Environment | Outdoor |
| Cable Type | Loose Tube |
| Product Type | Armored |
| Fiber Category | Single-mode (OS2) |
| Application | Aerial, Direct Buried, Duct |
| Fiber Count | 288 |

| Standards | |
|--------------------------|--|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
| Common Installations | Outdoor lashed aerial, duct and direct-buried, indoor when installed according to National Electrical Code® (NEC®) Article 770 |
| Design and Test Criteria | ANSI/ICEA S-87-640 |

| Environmental Conditions | |
|---------------------------------|--|
| Temperature Range, Installation | -30 °C to 70 °C (-22 °F to 158 °F) |
| Temperature Range, Operation | -40 °C to 70 °C (-40 °F to 158 °F) |
| Temperature Range, Storage | -40 °C to 70 °C (-40 °F to 158 °F) |
| Notes | Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results. |

| Cable Design | |
|-----------------------------------|--|
| Central Element | Dielectric |
| Fiber Count | 288 |
| Number of Ripcords | 2 |
| Buffer Tube Color Coding, Layer 1 | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow |

Product Specification 288EUC-T4100D20_NAFTA_AEN
Page 2 | Revision Date 2024-04-10

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| Cable Design | |
|---|--|
| Outer Jacket Color | Black |
| Outer Jacket Material | Polyethylene (PE) |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Number of Active Tubes | 24 |
| Number of Tube Positions | 24 |
| Tape, Layer 1 | Water-swellable |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |
| Color Code Standards | Telcordia |

| Mechanical Specifications | |
|-----------------------------------|---------------------|
| Max. Tensile Strength, Long-Term | 890 N (200.08 lbf) |
| Max. Tensile Strength, Short-Term | 2700 N (606.98 lbf) |
| Nominal Outer Diameter | 20 mm (0.79 in) |
| Min. Bend Diameter Installation | 600 mm (23.62 in) |
| Min. Bend Diameter Operation | 400 mm (15.75 in) |

| Optical Characteristics | |
|-------------------------|--------------------------------------|
| Fiber Code | E |
| Fiber Name | Single-mode (OS2) |
| Fiber Type | Single-mode |
| Performance Option Code | 00 |
| Maximum Attenuation | 0.35 dB/km / 0.35 dB/km / 0.25 dB/km |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Fiber Category | G.652.D |

Product Specification 288EUC-T4100D20_NAFTA_AEN

Page 3 | Revision Date 2024-04-10

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Dimensions

| | |
|--------------|-------------------------------|
| Cable Weight | 291 kg/km (195.54 lb/1000 ft) |
|--------------|-------------------------------|



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