

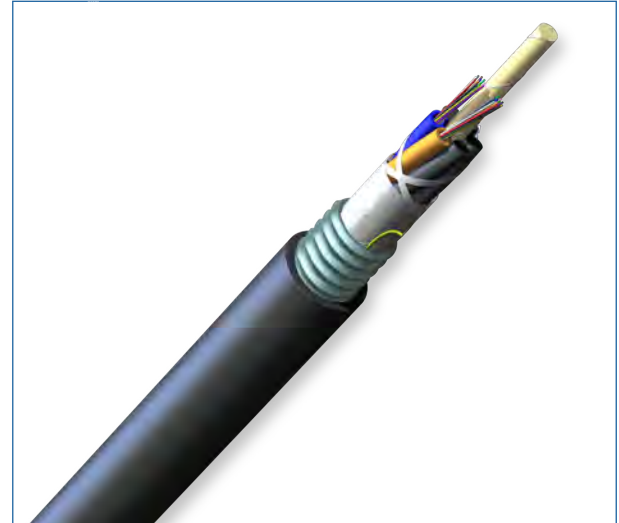
# ALTOS® Lite™ Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable

24 F, Single-mode (OS2)

CORNING

Corning Cable Systems 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 midspan access. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.



Part Number: 024EUC-T4101D20

## Features and Benefits

### 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

### Corrugated steel tape armor

Provides rodent resistance for direct-buried applications

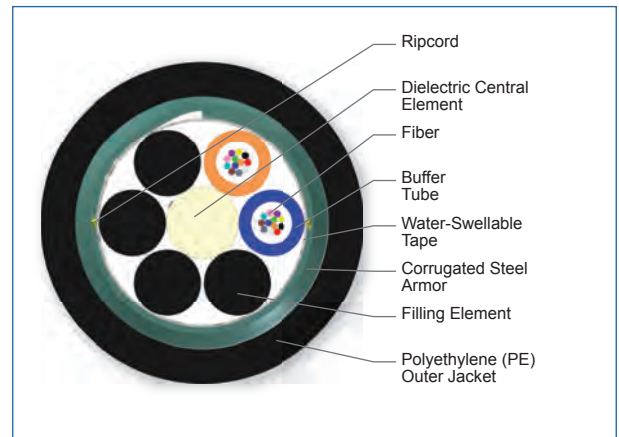
## Standards

### 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



Cross Section of Part Number: 024EUC-T4101D20

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## Specifications

### General Specifications

|                |                             |
|----------------|-----------------------------|
| Environment    | Outdoor                     |
| Application    | Aerial, Direct Buried, Duct |
| Cable Type     | Loose Tube                  |
| Product Type   | Armored                     |
| 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                                         | 24                                                                               |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube                                     | 12                                                                               |
| Number of Tube Positions                            | 6                                                                                |
| Number of Active Tubes                              | 2                                                                                |
| Buffer Tube Color Coding                            | Blue, Orange                                                                     |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)                                                                  |
| Number of Filling Elements                          | 4                                                                                |
| Tape                                                | Water-swellaable                                                                 |
| Number of Ripcords                                  | 2                                                                                |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor                                                      |
| Outer Jacket Material                               | Polyethylene (PE)                                                                |
| Outer Jacket Color                                  | Black                                                                            |
| Maximum Fibers per Tube                             | 12                                                                               |

### Mechanical Characteristics Cable

|                                    |                           |
|------------------------------------|---------------------------|
| Max. Tensile Strengths, Short-Term | 2700 N (600 lbf)          |
| Max. Tensile Strengths, Long-Term  | 890 N (200 lbf)           |
| Weight                             | 129 kg/km (87 lb/1000 ft) |

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## Mechanical Characteristics Cable

|                               |                   |
|-------------------------------|-------------------|
| Nominal Outer Diameter        | 12.1 mm (0.48 in) |
| Min. Bend Radius Installation | 182 mm (7.2 in)   |
| Min. Bend Radius Operation    | 121 mm (4.8 in)   |

## Chemical Characteristics

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

## Fiber Specifications

### Optical Characteristics (cabled)

|                            |                                   |
|----------------------------|-----------------------------------|
| Fiber Type                 | Single-mode                       |
| Fiber Core Diameter        | 8.2 µm                            |
| Fiber Category             | OS2                               |
| 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 |
| Serial 1 Gigabit Ethernet  | 5000 m / - / -                    |
| Serial 10 Gigabit Ethernet | 10000 m / - / 40000 m             |

\* ITU-T G.652 D compliant.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

## Ordering Information

|                     |                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------|
| Part Number         | 024EUC-T4101D20                                                                                 |
| Product Description | ALTOS® Lite™ Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable, 24 F, Single-mode (OS2) |

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## Notes



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