

# Sensing Lite Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable 24 F, Single-mode (OS2)

CORNING

**Part Number:**  
**024EUC-T4101ASN**

Corning Sensing Lite single-jacket, single-armored cables are lightweight, reduced-diameter, armored cables designed for direct-buried, 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**

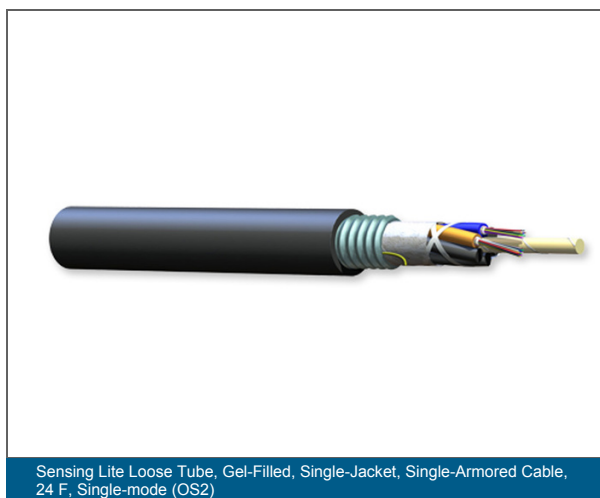
Isolates fibers from installation and environmental rigors and facilitates mid-span access

### **Dielectric central strength member**

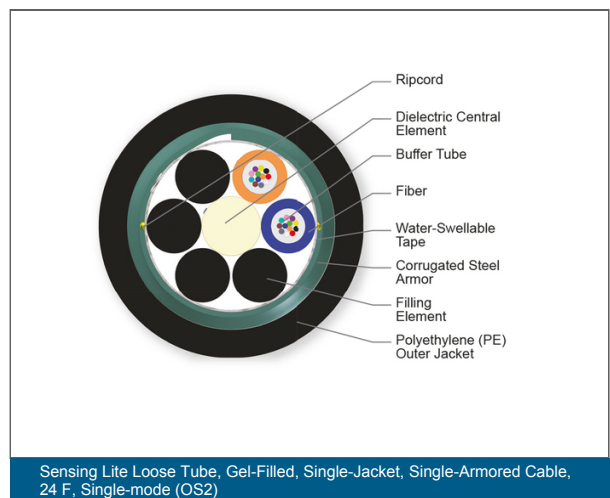
No preferential bend and requires no bonding or grounding

### **Polyethylene jacket**

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



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## Specifications

### General Specifications

|                |                       |
|----------------|-----------------------|
| Cable Type     | Loose Tube            |
| Environment    | Outdoor               |
| Product Type   | Dielectric armor      |
| Fiber Category | Single-mode (OS2)     |
| Application    | Aerial, Direct Buried |
| Cable geometry | Round                 |

### Standards

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| RoHS                     | Free of hazardous substances according to RoHS 2011/65/EU |
| Approvals and Listings   | USDA Rural Development Programs                           |
| Design and Test Criteria | Telcordia GR-20, ICEA-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 ) |

### Cable Design

|                                                     |                             |
|-----------------------------------------------------|-----------------------------|
| Central Element                                     | Dielectric                  |
| Fiber Count                                         | 24                          |
| Number of Ripcords                                  | 2                           |
| Outer Jacket Color                                  | Black                       |
| Outer Jacket Material                               | Polyethylene (PE)           |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor |
| Buffer Tube Color                                   | Blue, Orange                |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)             |

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## Cable Design

|                            |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| Number of Active Tubes     | 2                                                                                |
| Number of Filling Elements | 4                                                                                |
| Number of Tube Positions   | 6                                                                                |
| Tape                       | Water-swellable                                                                  |
| 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            | 12.1 mm (0.48 in )  |
| Min. Bend Diameter Installation   | 364 mm (14.33 in)   |
| Min. Bend Diameter Operation      | 242 mm (9.53 in)    |

## Optical Characteristics

|                         |                                   |
|-------------------------|-----------------------------------|
| Fiber Code              | E                                 |
| Performance Option Code | 01                                |
| Fiber Category          | OS2                               |
| Fiber Type              | Single-mode (OS2) / 250 µm        |
| Fiber Name              | Single-mode (OS2)                 |
| Maximum Attenuation     | 0.4 dB/km / 0.4 dB/km / 0.3 dB/km |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm       |
| Fiber Compliance        | ITU-T G.652.D                     |

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| Dimensions   |                              |
|--------------|------------------------------|
| Cable Weight | 136 kg/km (91.39 lb/1000 ft) |



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