

# ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cables with FastAccess® Technology 60 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

**Part Number:**  
**060ZUC-T4F22D20**

Corning ALTOS® Lite gel-free, single-jacket, single-armored cables with FastAccess® technology are designed for direct-buried installations. The innovative FastAccess technology feature combined with the gel-free loose tube design simplifies removal of the cable jacket and accessing the buffer tubes. The gel-free design means the cables are fully waterblocked using craft-friendly water-swappable materials which makes cable access simple and require no clean up. The loose tube design uses Corning's SMF-28® Ultra fiber to provide reliable transmission parameters for a variety of voice, data, video and imaging applications. The flexible 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. The single-armored construction provides additional crush and rodent protection. These cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### ALTOS® Lite FastAccess® Technology

Corning's ALTOS Lite FastAccess Technology refers to the combination of a Corning FastAccess Technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and waterblocking tapes and up to a 60 percent improvement in cable access time. These technologies also reduce the overall risk of inadvertent fiber damage by reducing the need for sharp cable access tools.

### Stranded optical core

Elimination of overlapping yarn binders around stranded tubes to reduce end access time

### Fully waterblocked loose tube all-dielectric gel-free design

Simple access and no clean up

### Single-armored construction

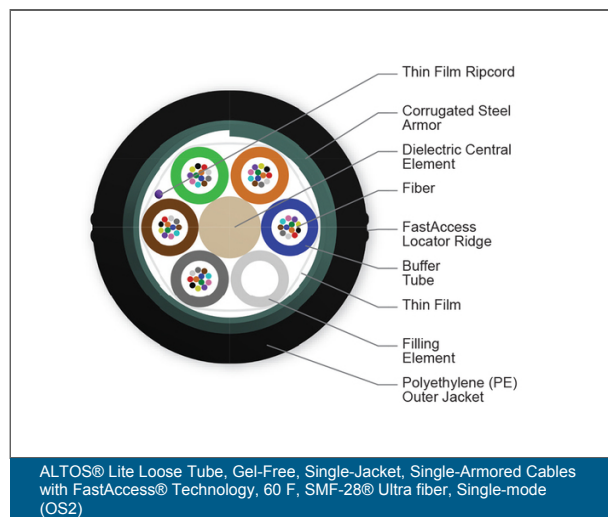
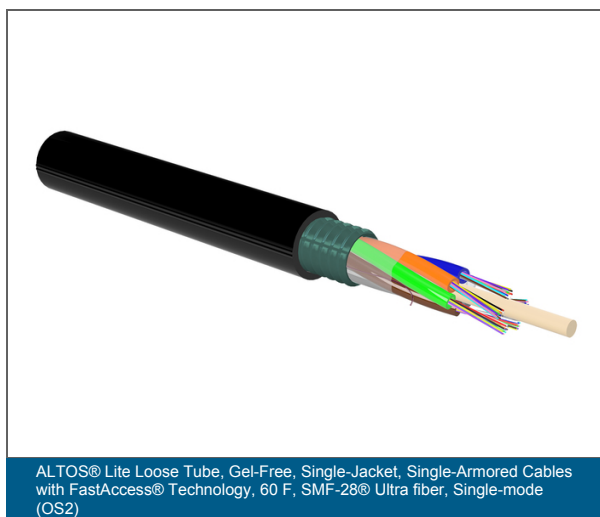
Provides additional crush and rodent protection

### Polyethylene jacket

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

### Available with Corning's SMF-28® Ultra fiber

ITU-T G.652 D and ITU-T G.657 A1 compliant fiber ready for any application



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## Specifications

### General Specifications

|                      |                             |
|----------------------|-----------------------------|
| Installation Methods | Aerial, Direct Buried, Duct |
| Cable Type           | Loose Tube                  |
| Environment          | Outdoor                     |
| Product Type         | Steel Tape Armor            |
| Fiber Category       | SMF-28® Ultra               |
| Cable geometry       | Round                       |

### 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

|                                 |                                                                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| 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        | 60         |
| Number of Ripcords | 1          |
| Outer Jacket Color | Black      |

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## Cable Design

|                                                     |                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------|
| Outer Jacket Material                               | Polyethylene (PE)                                                                |
| Tensile Strength Elements and/or Armoring - Layer 1 | Corrugated steel tape armor                                                      |
| Buffer Tube Color                                   | Blue, Orange, Green, Brown, Slate                                                |
| Buffer Tube Diameter                                | 2.5 mm (0.1 in)                                                                  |
| Number of Active Tubes                              | 5                                                                                |
| Number of Filling Elements                          | 1                                                                                |
| Number of Tube Positions                            | 6                                                                                |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube                                     | 12                                                                               |
| SAP Powder                                          | Water-swellaable                                                                 |
| 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            | 11.7 mm (0.46 in )  |
| Min. Bend Diameter Installation   | 352 mm (13.86 in)   |
| Min. Bend Diameter Operation      | 234 mm (9.21 in)    |

## Optical Characteristics

|                         |                                      |
|-------------------------|--------------------------------------|
| Fiber Code              | Z                                    |
| Performance Option Code | 22                                   |
| Fiber Category          | OS2                                  |
| Fiber Type              | Single-mode (OS2) / 250 µm           |
| Fiber Name              | Bend-Improved Single-mode (OS2)      |
| Maximum Attenuation     | 0.34 dB/km / 0.34 dB/km / 0.22 dB/km |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm          |
| Fiber Compliance        | ITU-T G.652.D and ITU-T G.657.A1     |

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Technology 60 F, SMF-28® Ultra fiber, Single-  
mode (OS2)**



| Dimensions   |                              |
|--------------|------------------------------|
| Cable Weight | 121 kg/km (81.31 lb/1000 ft) |



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