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

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**

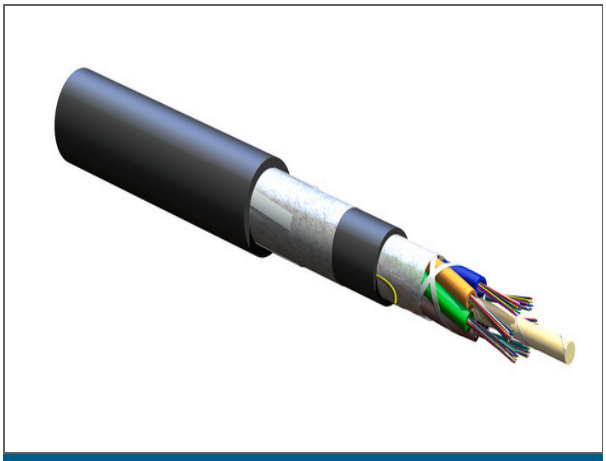
Craft-friendly cable preparation

**Polyethylene jacket**

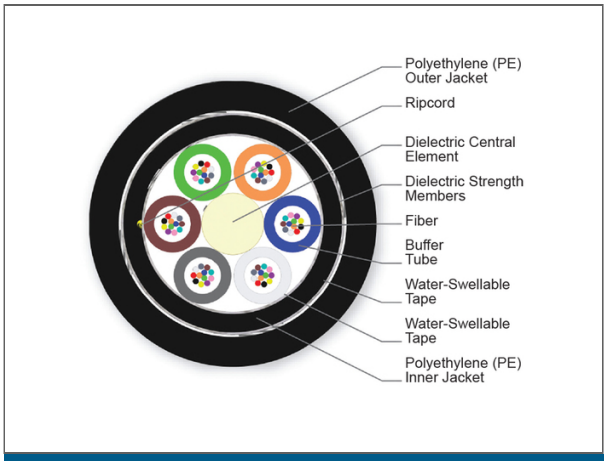
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

**Exceeds the RDUP requirements for mid-span buffer tube slack storage**

Provides flexibility for mid-span access applications



ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable, 72 F, Single-mode (OS2)

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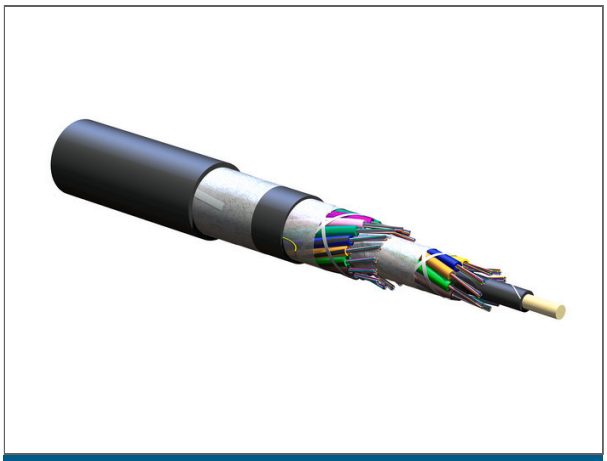

ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable, 288 F, 50 µm multimode (OM2)

| Standards | |
|---|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
| Approvals and Listings | RDUP (RUS) Listed Material acceptability |
| Design and Test Criteria | ANSI/ICEA S-87-640 |

## Specifications

| General Specifications | |
|---|---|
| Environment | Outdoor |
| Product Type | Dielectric |
| Cable Type | Loose Tube |

| Temperature Range | |
|---|---|
| Temperature Range, Storage | -40 °C - 70 °C (-40 °F - 158 °F) |
| Temperature Range, Installation | -30 °C - 70 °C (-22 °F - 158 °F) |
| Temperature Range, Operation | -40 °C - 70 °C (-40 °F - 158 °F) |

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| Temperature Range | |
|---|---|
| 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. |

| Design Characteristics Cable | | | | |
|---|---|---|---|---|
| Fiber Count | Fibers per Tube | Number of Tube Positions | Number of Active Tubes | Buffer Tube Diameter |
| 6 | 6 | 6 | 1 | 2.5 mm (0.1 in) |
| 12 - 72 | 12 | 6 | 1 - 6 | 2.5 mm (0.1 in) |
| 96 | 12 | 8 | 8 | 2.5 mm (0.1 in) |
| 144 | 12 | 12 | 12 | 2.5 mm (0.1 in) |
| 192 - 216 | 12 | 18 | 16 - 18 | 2.5 mm (0.1 in) |
| 288 | 12 | 24 | 24 | 2.5 mm (0.1 in) |

## Transmission Performance

| Multimode | | |
|---|---|---|
| Fiber Category | OM1 | OM2 |
| Fiber Code | K | T |
| Performance Option Code | 30 | 31 |
| Fiber Core Diameter | 62.5 µm | 50 µm |
| Wavelengths | 850 nm / 1300 nm | 850 nm / 1300 nm |
| Maximum Attenuation | 3.4 dB/km / 1.0 dB/km | 3.0 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet | 300 MHz*km / 550 MHz*km | 750 MHz*km / 500 MHz*km |
| Serial 10 Gigabit Ethernet | 33 MHz*km/ - | 150 MHz*km / - |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz*km / 500 MHz*km | 700 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 220 MHz*km / - | 950 MHz*km / - |

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

## Transmission Performance

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

□ □ □ □ U E - □ □ 1 □ □ D 2 0

1 2 3 4 5 6 7 8 9 10

**1** Select fiber count.
Standard offerings:
012-288 (Increments of 12)

**2** Select fiber code.
K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM2/OM3/OM4)
E = Single-mode (G.652.D)
Z = Single-mode (G.652.D/G.657.A1) SMF-28® Ultra fiber
P = Single-mode (G.652) SMF-28® ULL
F = Single-mode (G.655) LEAF®
D = TXF™ Single-mode (G.654.E)

**3** Defines cable type.
U = ALTOS® Loose Tube Cable with 2.5 mm buffer tubes

**4** Defines outer jacket.
E = Double-jacket, all-dielectric

**5** Select fiber placement.
T = 12 fibers/buffer tube (standard)
6 = 6 fibers/buffer tube
*See Note 1.*

**6** Select length markings.
3 = Markings in meters
4 = Markings in feet (standard)

**7** Defines tensile strength.
1 = 2700 N/600 lbf (standard)

**8** Select performance option code.
30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
90 = 50 µm multimode (OM4)
01 = Single-mode (OS2) (Max. attenuation 0.4/0.4/0.3 dB/km)
00 = Single-mode (OS2) (Max. attenuation 0.35/0.35/0.25 dB/km)
22 = Single-mode (OS2) (Max. attenuation 0.34/0.34/0.22 dB/km)
19 = Single-mode (Ultra Low-Loss) (Max. attenuation 0.33/–/0.19 dB/km)
01 = Single-mode (TXF) (Max. attenuation –/–/0.20 dB/km)
01 = Single-mode NZDSF* (Max. attenuation –/–/0.25 dB/km)
**Non-Zero Disperson-Shifted Single-mode Fiber*

**9** Defines cable type.
D = Gel-free cable

**10** Defines special requirements.
20 = No special requirements

*1) Cable outer diameter may change. Example: 48 F cable with 6 fibers per tube will require 8 active buffer and have an OD like a standard 96 F cable.*

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

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