# ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology

CORNING

Corning ALTOS® cable with Binderless* FastAccess® technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for lashed aerial and duct installations. The innovative FastAccess technology feature combined with the gel-free binderless loose tube design simplifies removal of the cable jacket and accessing the buffer tubes. The loose tube design uses Corning SMF-28® Ultra fiber to provide reliable transmission parameters for a variety of voice, data, video and imaging applications. The cable is fully waterblocked using craft-friendly, water-swellable materials, which means no cleanup is required. 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 all-dielectric gel-free cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to handle.
*Corning's patented Binderless 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.

## Features and Benefits

**Binderless* FastAccess® Technology**

Corning's Binderless 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 resulting in a 25 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.

**Binderless stranded optical core**

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

**Fully waterblocked loose tube, gel-free design**

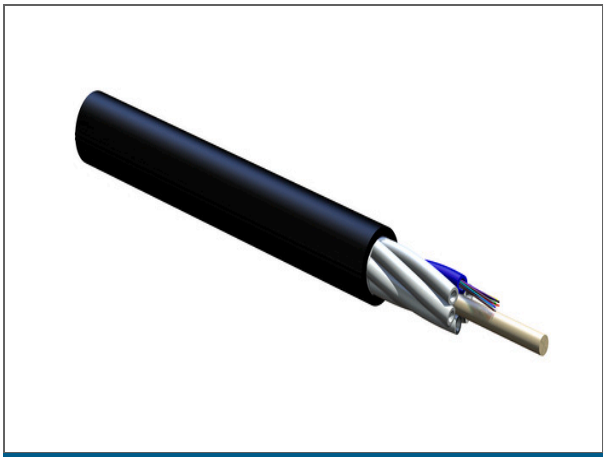
Simple access and no clean up

**Polyethylene jacket**

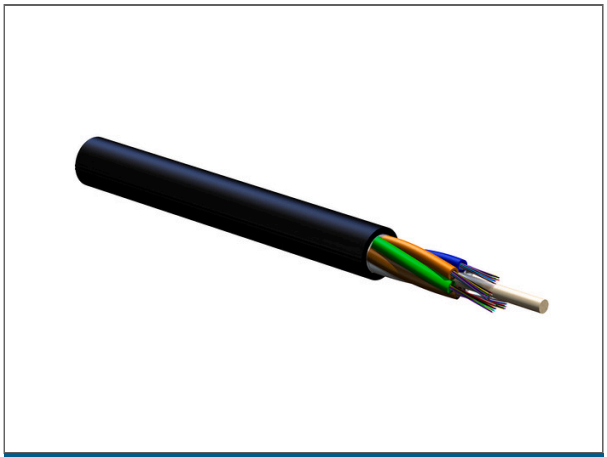
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

**Available with G.652.D and/or G.657.A1 fiber**

Ready for any application

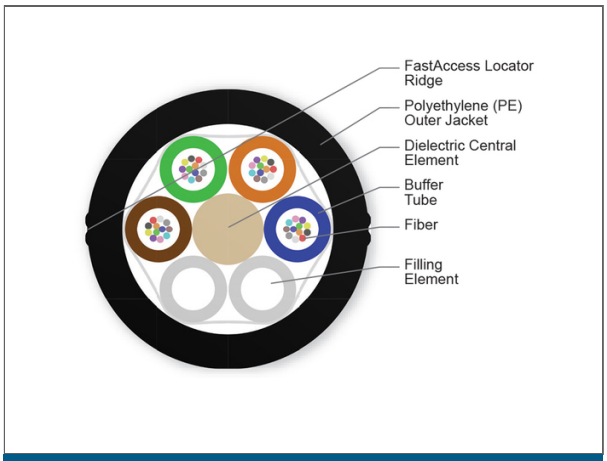


ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology, 12 F, SMF-28® Ultra fiber, Single-mode (OS2)

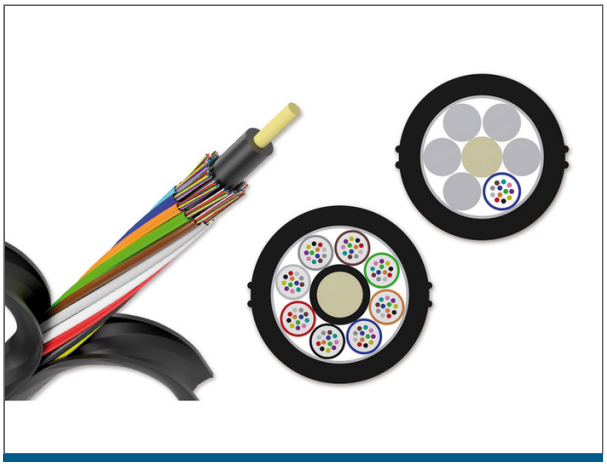


ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology, 48 F, SMF-28® Ultra fiber, Single-mode (OS2)

# ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology




ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology, 48 F, SMF-28® Ultra fiber, Single-mode (OS2)



| Standards | |
|---|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |

## 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) |

# ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology

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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 |
| 12 - 72 | 12 | 6 | 1 - 6 | 2.5 mm (0.1 in) |

| Mechanical Characteristics Cable | | | | | | |
|---|---|---|---|---|---|---|
| Fiber Count | Nominal Outer Diameter | Max. Tensile Strength, Short-Term | Max. Tensile Strength, Long-Term | Min. Bend Diameter Installation | Min. Bend Diameter Operation | Cable Weight |
| 12 | 10.2 mm x 4.7 mm (0.4 in x 0.19 in) | 2700 N (606.98 lbf) | 890 N (200.08 lbf) | 306 mm (12.05 in) | 204 mm (8.03 in) | 62.5 kg/km (42 lb/1000 ft) |
| 24 | 10.2 mm (0.4 in) | 2700 N (606.98 lbf) | 890 N (200.08 lbf) | 306 mm (12.05 in) | 204 mm (8.03 in) | 63.4 kg/km (42.6 lb/1000 ft) |
| 36 | 10.2 mm (0.4 in) | 2700 N (606.98 lbf) | 890 N (200.08 lbf) | 306 mm (12.05 in) | 204 mm (8.03 in) | 64.3 kg/km (43.21 lb/1000 ft) |
| 48 | 10.2 mm (0.4 in) | 2700 N (606.98 lbf) | 890 N (200.08 lbf) | 306 mm (12.05 in) | 204 mm (8.03 in) | 65.1 kg/km (43.75 lb/1000 ft) |
| 60 | 10.2 mm (0.4 in) | 2700 N (606.98 lbf) | 890 N (200.08 lbf) | 306 mm (12.05 in) | 204 mm (8.03 in) | 66 kg/km (44.35 lb/1000 ft) |
| 72 | 10.2 mm x 4.7 mm (0.4 in x 0.19 in) | 2700 N (606.98 lbf) | 890 N (200.08 lbf) | 306 mm (12.05 in) | 204 mm (8.03 in) | 66.8 kg/km (44.89 lb/1000 ft) |

# ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless* FastAccess® Technology

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## Transmission Performance

| Single-mode | |
|---|---|
| Fiber Name | SMF-28® Ultra fiber |
| Performance Option Code | 22 |
| Fiber Category | G.652.D/G.657.A1 |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Fiber Code | Z |
| Maximum Attenuation | 0.34 dB/km / 0.34 dB/km / 0.22 dB/km |

□ □ □ Z U 4 - T □ F 2 2 D 2 0

1 2 3 4 5 6 7 8 9 10

1 Select fiber count.
Standard offerings: 12-72 fibers

2 Defines fiber type.
Z = Single-mode SMF-28® Ultra fiber (G.652.D/G.657.A1)

3 Defines cable type.
U = ALTOS loose tube cable with 2.5 mm buffer tubes

4 Defines outer jacket.
4 = All-dielectric

5 Defines fiber placement.
T = 12 fibers/buffer tube

6 Select length markings.
3 = Markings in meters
4 = Markings in feet

7 Defines special jacket feature.
F = FastAccess® Binderless Technology

8 Defines performance option code.
22 = Single-mode (OS2)
Max. attenuation 0.34/0.34/0.20 dB/km

9 Defines cable type.
D = Gel-free cable

10 Defines special requirements.
20 = No special requirements

RoHS COMPLIANT

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