

# ALTOS® Loose Tube, Gel-Free, All-Dielectric Cables with Binderless\* FastAccess® Technology, 12-72 Fibers



## 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

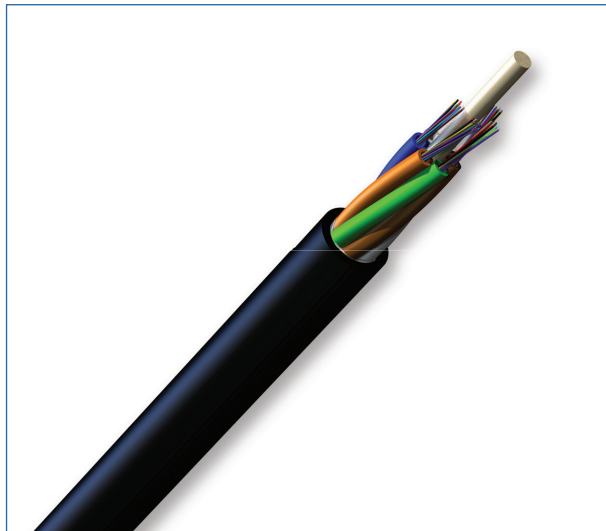
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

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

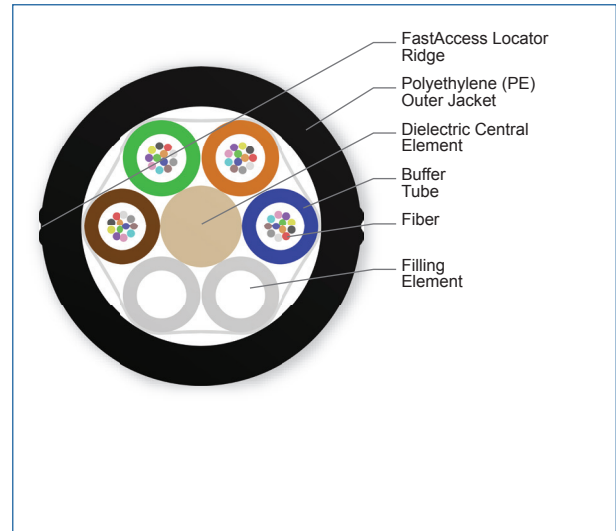
Ready for any application

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's 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 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.*



ALTOS Loose Tube, Gel-Free, All-Dielectric Cable with Binderless FastAccess Technology, 48 Fibers



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## Standards

**Common Installations** Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

**Design and Test Criteria** ANSI/ICEA S-87-640, Telcordia GR-20, RDUP PE-90

## Specifications

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)

\* Note: 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.

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)

Fiber Count	Product Type	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
12	Dielectric	6	1	62.5 kg/km (41.9 lb/1000 ft)	10.2 mm (0.40 in)	153 mm (6.02 in)	102 mm (4.01 in)
24	Dielectric	6	2	63.4 kg/km (42.6 lb/1000 ft)	10.2 mm (0.40 in)	153 mm (6.02 in)	102 mm (4.01 in)
36	Dielectric	6	3	64.3 kg/km (43.1 lb/1000 ft)	10.2 mm (0.40 in)	153 mm (6.02 in)	102 mm (4.01 in)
48	Dielectric	6	4	65.1 kg/km (43.7 lb/1000 ft)	10.2 mm (0.40 in)	153 mm (6.02 in)	102 mm (4.01 in)
60	Dielectric	6	5	66.0 kg/km (44.3 lb/1000 ft)	10.2 mm (0.40 in)	153 mm (6.02 in)	102 mm (4.01 in)
72	Dielectric	6	6	66.8 kg/km (44.8 lb/1000 ft)	10.2 mm (0.40 in)	153 mm (6.02 in)	102 mm (4.01 in)

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## Chemical Characteristics

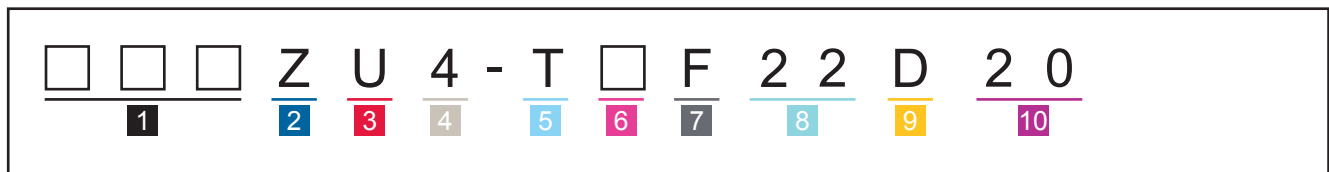
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Transmission Performance

Single-mode	
Fiber Name	SMF-28® Ultra fiber
Fiber Category	G.652.D/G.657.A1
Fiber Code	Z
Performance Option Code	22
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.34/0.34/0.22
Typical Attenuation* (dB/km)	0.32/0.32/0.18

\* Typical attenuation values match the attenuation values listed in the optical fiber specifications. SMF-28® Ultra delivers up to 10x better macrobend loss performance compared to the G.652.D standard and up to 33 percent better macrobend loss performance than the G.657.A1 standard for 10 mm radii bends.

## Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.



- 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

# ALTOS<sup>®</sup> Loose Tube, Gel-Free, All-Dielectric Cables with Binderless\* FastAccess<sup>®</sup> Technology, 12-72 Fibers

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## Notes



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