

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-swellaable 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

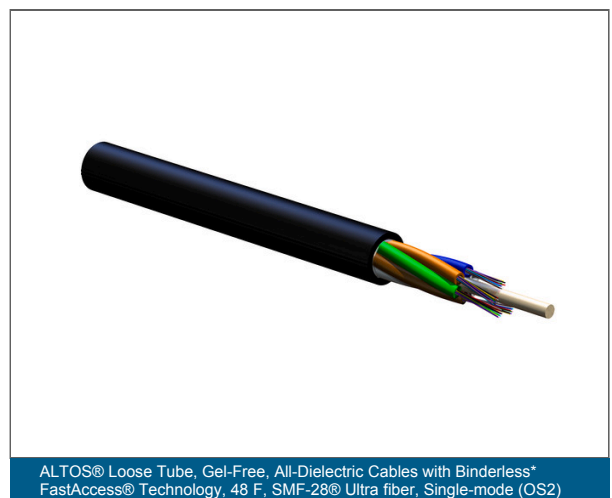
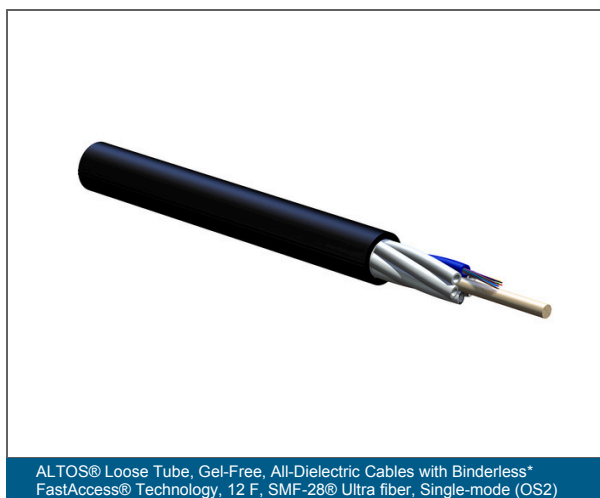
Simple access and no clean up

Polyethylene jacket

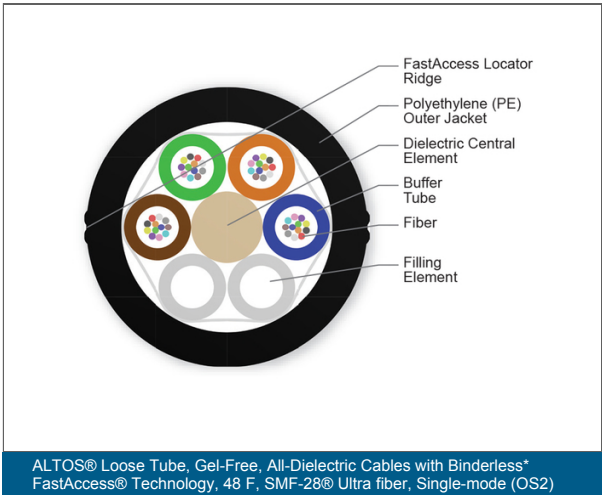
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

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

Ready for any application



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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)

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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 (0.4 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 (0.4 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)

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Transmission Performance

Single-mode

Fiber Name	Bend-Improved Single-mode (OS2)
Performance Option Code	22
Fiber Category	OS2
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 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



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