

ALTOS® HD Gel-Free, All-Dielectric Cable with Binderless* FastAccess® Technology



Corning® ALTOS® HD cable with Binderless* FastAccess® technology is a high-density, all-dielectric gel-free cable designed for outdoor use for lashed aerial and duct installations.

The 24 fiber high-density buffer tube provides a 30 percent reduction in cable OD and a 2x increase in fiber density, which equals additional space for maximizing duct capacity. The buffer tubes and the fibers contained within are color-coded for quick and easy identification.

The innovative FastAccess technology feature combined with the gel-free binderless loose tube design simplifies cable jacket removal and tube access. 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 its medium-density polyethylene jacket that is rugged, durable, and easy to handle. The cable is fully waterblocked using craft-friendly, water-swallowable materials, which means no cleanup is required.

Features and Benefits

ALTOS® HD FastAccess® Technology

With the combination of a 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.

Binderless 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

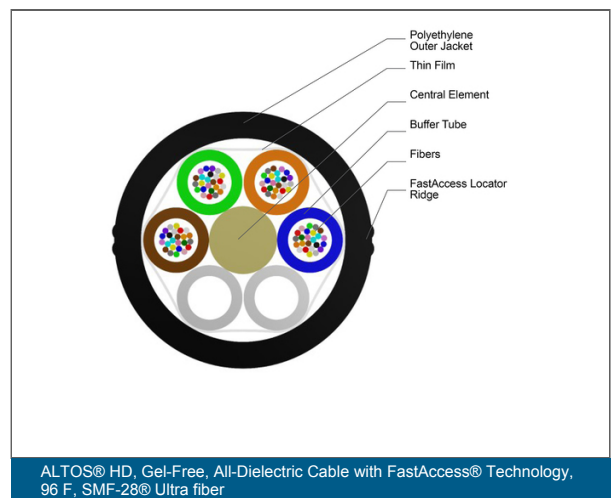
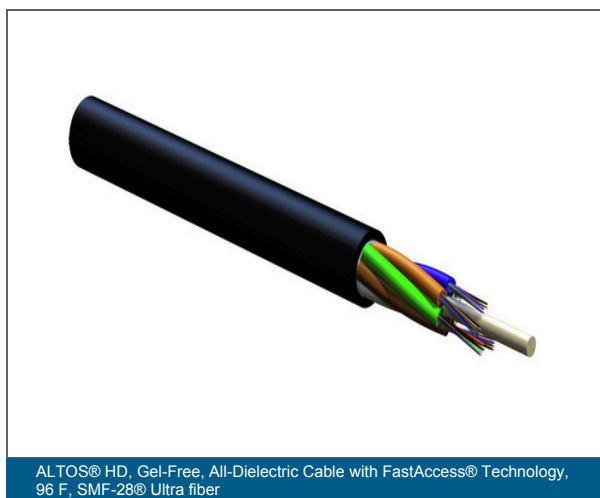
Simple access and no clean up

Polyethylene jacket

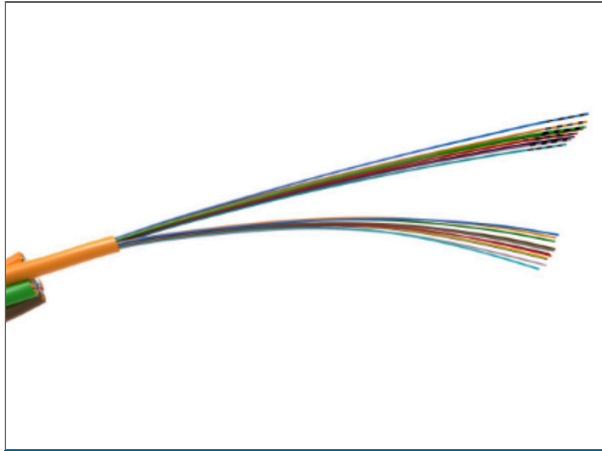
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

Available with Corning's SMF-28® Ultra fiber and SMF-28e+

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



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ALTOS® HD, Gel-Free, All-Dielectric Cable with FastAccess® Technology, 96 F, SMF-28® Ultra fiber

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
96 - 144	24	6	4 - 6	2.7 mm (0.11 in)
288	24	12	12	2.7 mm (0.11 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
96 - 144	10.9 mm (0.43 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	328 mm (12.91 in)	300 mm (11.81 in)	75 kg/km (50.4 lb/1000 ft)
288	16.7 mm (0.66 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	502 mm (19.76 in)	334 mm (13.15 in)	173 kg/km (116.25 lb/1000 ft)

Transmission Performance

Single-mode		
Fiber Name	Bend-Improved Single-mode (OS2)	Single-mode (OS2)
Performance Option Code	22	00
Fiber Category	OS2	OS2
Wavelengths	1310 nm / 1383 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm
Fiber Code	Z	E
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.22 dB/km	0.35 dB/km / 0.35 dB/km / 0.25 dB/km

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1 Select fiber count.

- 96 fiber
- 120 fiber
- 144 fiber
- 288 fiber

2 Select fiber code.

- 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 2.7 mm buffer tubes

4 Defines outer jacket.

- 4 = All-dielectric

5 Defines fiber placement.

- Y = 24 fibers/buffer tube

6 Select length markings.

- 3 = Markings in meters
- 4 = Markings in feet

7 Defines special jacket feature.

- F = FastAccess® Technology

8 Select performance option code.

- 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)
- 19 = Single-mode (Ultra Low-Loss)
(Max. attenuation 0.33/~/0.19 dB/km)
- 22 = Single-mode (SMF-28 Ultra)
(Max. attenuation 0.34/0.34/0.22 dB/km)
- 01 = Single-mode (TXF)
(Max. attenuation ~/~/0.20 dB/km)
- 01 = Single-mode NZDSF*
(Max. attenuation ~/~/0.25 dB/km)

*Non-Zero Dispersion-Shifted Single-mode Fiber

9 Defines cable type.

- D = Gel-free cable

10 Defines special requirements.

- 20 = No special requirements



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