

# ALTOS® HD Lite Gel-Free, Single-Jacket, Single-Armored Cables with FastAccess® Technology (24F/Tube)

CORNING

Corning® ALTOS® HD Lite gel-free, single-jacket, single-armored cables with FastAccess® technology are designed for direct-buried installations. The 24 fiber high-density buffer tube provides a 30 percent reduction in cable OD resulting in a 2x increase in fiber density. This improved density equals additional space for maximizing duct capacity. The innovative FastAccess technology feature combined with the gel-free loose tube design simplifies jacket removal and buffer tube access. The gel-free cable is fully waterblocked using craft-friendly water-swallowable materials for simple access with no clean up.

The loose tube design employs Corning's suite of optical fiber to provide reliable transmission parameters for a variety of voice, data, video, imaging and network applications. 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 single-armored construction provides additional crush and rodent protection. These cables have a polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### ALTOS® HD FastAccess® Technology

ALTOS HD FastAccess Technology refers to 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.

### Polyethylene jacket

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

### Fully waterblocked loose tube all-dielectric gel-free design

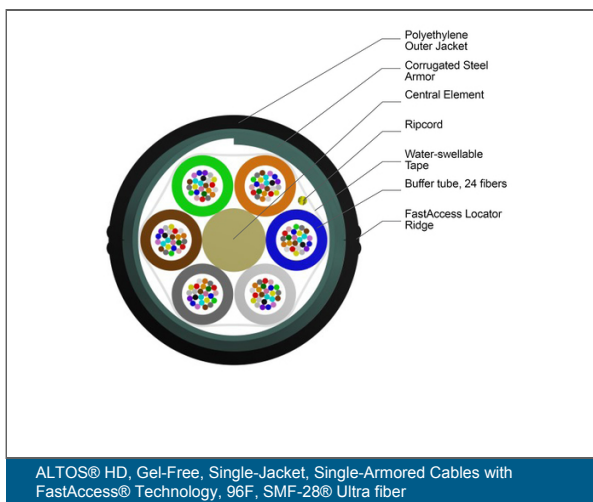
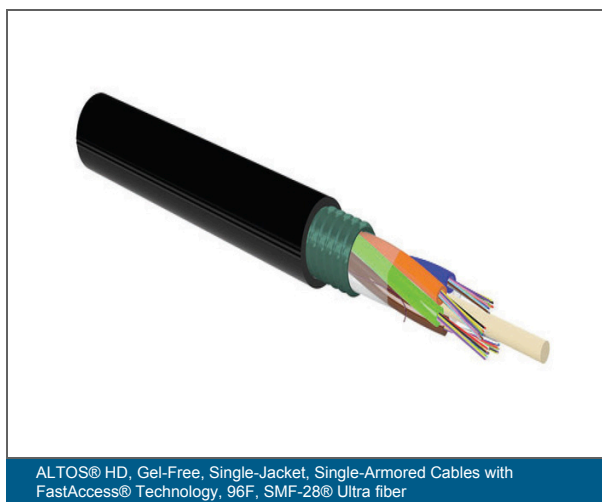
Simple access and no clean up

### Single-armored construction

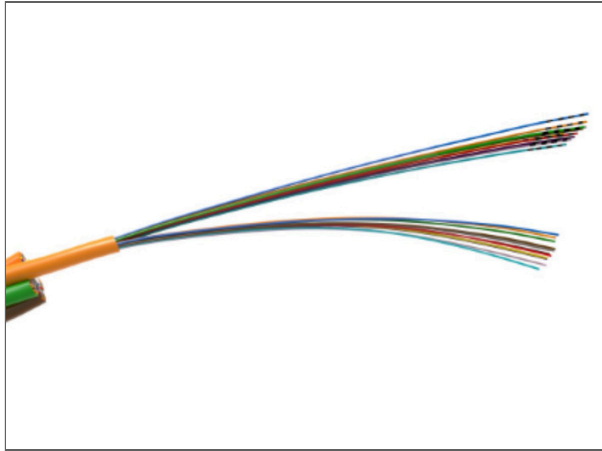
Provides additional crush and rodent protection

Available in Corning's 62.5 µm and 50 µm multimode, standard single-mode (G.652.D, G.657.A1), dispersion shifted single-mode (G.655, G.654), and hybrid versions

Ready for any application from Gigabit Ethernet all the way to ≥ 800G Long Haul



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ALTOS® HD, Gel-Free, Single-Jacket, Single-Armored Cables with FastAccess® Technology, 96F, SMF-28® Ultra fiber

## Specifications

General Specifications	
Environment	Outdoor
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)
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.

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## 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)

## 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
96 - 144	12.5 mm (0.49 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	376 mm (14.8 in)	300 mm (11.81 in)

## Transmission Performance

### Single-mode

Performance Option Code	22	00
Fiber Category	G.652.D/G.657.A1	G.652.D
Fiber Name	SMF-28® Ultra fiber	Single-mode (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

# ALTOS® HD Lite Gel-Free, Single-Jacket, Single-Armored Cables with FastAccess® Technology (24F/Tube)



- 1** Select fiber count.
  - 96 fiber
  - 120 fiber
  - 144 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.
  - C = Single-jacket, single-armored
- 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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