

# ALTOS® Cable with FastAccess® Technology

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## Features and Benefits

### Contains FastAccess® technology

Innovative cable jacket feature reduces cable end access time, reduces overall risk of inadvertent fiber damage, as well as, risk to installers from 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, gel-free design

Simple access and no clean up

### Industry-standard performance

Meets the requirements of Telcordia GR-20, Issue 3 and ICEA S-87-640

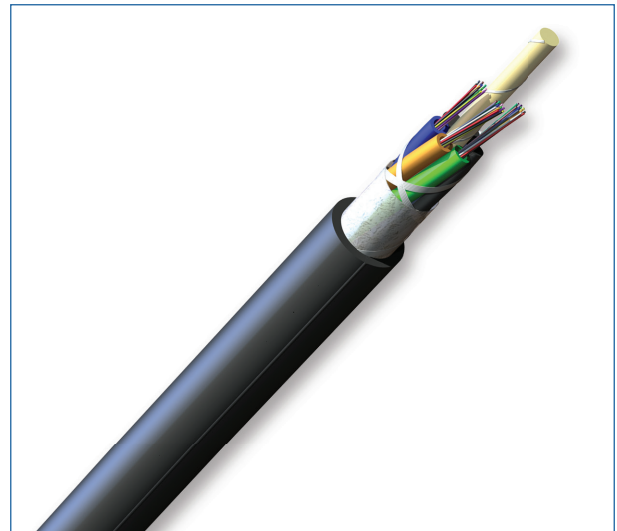
### Available in 62.5 $\mu\text{m}$ , 50 $\mu\text{m}$ , single-mode and hybrid versions

Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

Corning ALTOS® cable with FastAccess® technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The innovative FastAccess technology feature combined with the all-dielectric gel-free loose tube design simplifies removal of the cable jacket reducing cable end access time by at least 50 percent. Equally important is the overall reduction in risk of inadvertent fiber damage and risk to installers from sharp cable access tools. The cable is fully waterblocked using craft-friendly, water-swellable materials, which means no clean up 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 mid-span 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. A variety of fiber types are available including 62.5  $\mu\text{m}$  and 50  $\mu\text{m}$ , single-mode and hybrid versions, as well as fibers with Gigabit and 10 Gigabit Ethernet performance.



ALTOS All-Dielectric Cable with FastAccess Technology, Gel-Free | Photo LAN2866



ALTOS All-Dielectric Cable with FastAccess Technology, Gel-Free, 36 Fibers | Photo PIM2547

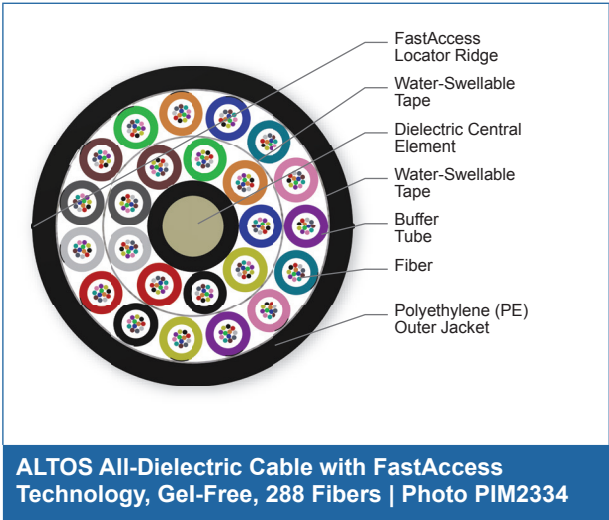
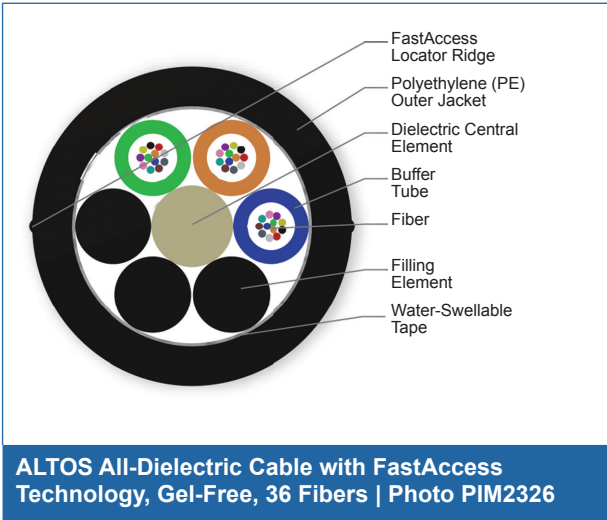
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## Standards

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.

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## Mechanical Characteristics Cable

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

Fiber Count	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
2 - 72	6	1 - 6	73 kg/km (49 lb/1000 ft)	10.5 mm (0.41 in)	158 mm (6.2 in)	105 mm (4.1 in)
96	8	8	98 kg/km (66 lb/1000 ft)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)
144	12	12	162 kg/km (109 lb/1000 ft)	15.8 mm (0.62 in)	237 mm (9.3 in)	158 mm (6.2 in)
192 - 216	18	16 - 18	147 kg/km (99 lb/1000 ft)	16.0 mm (0.63 in)	240 mm (9.4 in)	160 mm (6.3 in)
288	24	24	196 kg/km (131 lb/1000 ft)	18.2 mm (0.72 in)	273 mm (10.7 in)	182 mm (7.2 in)

## Chemical Characteristics

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

Multimode				
Fiber Core Diameter (µm)	62.5	50	50	50
Fiber Category	OM1	OM2	OM3	OM4
Fiber Code	K	T	T	T
Performance Option Code	30	31	80	90
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-

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Single-mode					
Fiber Name	SMF-28e+® LL	SMF-28® Ultra fiber**	Single-mode (OS2)	Single-mode (OS2)	LEAF® fiber
Fiber Category	G.652.D	G.652.D/G.657.A1	G.652.D	G.652.D	G.655
Fiber Code	L	Z	E	E	F
Performance Option Code	22	22	00	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.34/0.34/0.22	0.34/0.34/0.22	0.35/0.35/0.25	0.4/0.4/0.3	-/-/0.25
Typical Attenuation* (dB/km)	0.32/0.32/0.18	0.32/0.32/0.18	-	-	-/-/0.19
Fiber Name	SMF-28® ULL	TXF™ fiber			
Fiber Category	G.652	G.654.E			
Fiber Code	P	D			
Performance Option Code	19	01			
Wavelengths (nm)	1310/1383/1550	1310/1383/1550			
Maximum Attenuation (dB/km)	0.33/-/0.19	-/-/0.20			
Typical Attenuation* (dB/km)	0.31/-/0.17	-/-/0.18			

\* For more information on typical attenuation please see the Corning whitepaper at [http://csmedia.corning.com/opcomm//Resource\\_Documents/whitepapers\\_rl/LAN-1863-AEN.pdf](http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf)

\*\* SMF-28® Ultra fiber 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 10mm radii bends.

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

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	U	4	-	<input type="text"/>	<input type="text"/>	7	<input type="text"/>	<input type="text"/>	D	2	0
1	2	3	4	5	6	7	8	9	10					

## 1 Select fiber count.

Standard offerings:

012	048	096	216
024	060	144	288
036	072	192	

## 2 Select fiber code.

K = 62.5 µm multimode (OM1)  
 T = 50 µm multimode (OM2/OM3/OM4)  
 E = Single-mode (G.652.D)  
 L = Single-mode (G.652.D) SMF-28e+® LL  
 Z = Single-mode (G.652.D/G.657.A1) SMF-28® Ultra  
 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 2.5 mm buffer tubes

## 4 Defines outer jacket.

4 = All-dielectric

## 5 Select fiber placement.

T = 12 fibers/buffer tube (standard)  
 6 = 6 fibers/buffer tube  
*See Note 1.*

## 6 Select length markings.

3 = Markings in meters  
 4 = Markings in feet (standard)

## 7 Defines special jacket feature.

7 = ALTOS® Cable with FastAccess™ Technology

## 8 Select performance option code.

30 = 62.5 µm multimode (OM1)  
 31 = 50 µm multimode (OM2)  
 80 = 50 µm multimode (OM3)  
 90 = 50 µm multimode (OM4)  
 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)  
 22 = Single-mode (OS2) (Max. attenuation 0.34/0.34/0.22 dB/km)  
 19 = Single-mode (Ultra Low-Loss) (Max. attenuation 0.33/-/0.19 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 = ALTOS® Gel-Free Cable

## 10 Defines special requirements.

20 = No special requirements

1) Cable outer diameter may change. Example: 48 F cable with 6 fibers per tube will require 8 active buffer and have an OD like a standard 96 F cable.



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