

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 µm and 50 µm, single-mode and hybrid versions, as well as fibers with Gigabit and 10 Gigabit Ethernet performance.

#### 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 all-dielectric gel-free design

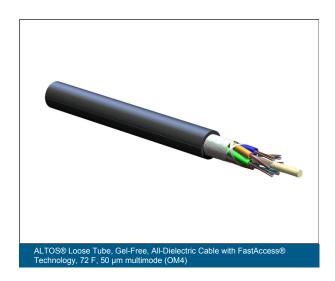
Simple access and no clean up

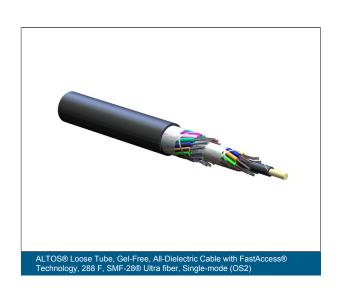
#### Industry-standard performance

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

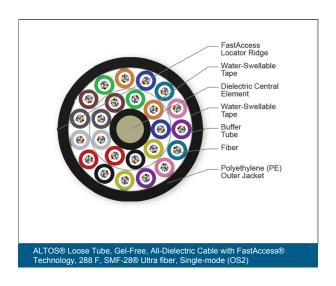
### Available in 62.5 $\mu m,\,50~\mu m,\,single\text{-mode}$ and hybrid versions

Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet









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)

Family Spec Sheet NAFTA\_AEN



Temperatu	ure Range	
Notes	envi to m	ning recommends storing cable in a proper temperature ronment prior to installation to allow the cable temperature neet installation temperature range specifications for best allation results.

Design Characteristics Cable							
Fiber Count	Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Buffer Tube Diameter			
2	2	6	1	2.5 mm (0.1 in)			
4	4	6	1	2.5 mm (0.1 in)			
6	6	6	1	2.5 mm (0.1 in)			
12 - 72	12	6	1 - 6	2.5 mm (0.1 in)			
96	12	8	8	2.5 mm (0.1 in)			
144	12	12	12	2.5 mm (0.1 in)			
192 - 216	12	18	16 - 18	2.5 mm (0.1 in)			
288	12	24	24	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		
2 - 72	10.5 mm (0.41 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	316 mm (12.44 in)	210 mm (8.27 in)		
96	12.2 mm (0.48 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	366 mm (14.41 in)	244 mm (9.61 in)		
144	15.8 mm (0.62 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	474 mm (18.66 in)	316 mm (12.44 in)		
192 - 216	16 mm (0.63 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	480 mm (18.9 in)	320 mm (12.6 in)		
288	18.2 mm (0.72 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	546 mm (21.5 in)	364 mm (14.33 in)		



### **Transmission Performance**

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

### **Transmission Performance**

Single-mode							
Performance Option Code	01	19	22	00	01		
Fiber Category	G.655	G.652	G.652.D/G.657.A1	G.652.D	G.652.D		
Fiber Name	LEAF® fiber	SMF-28® ULL	SMF-28® Ultra fiber	Single-mode (OS2)	Single- mode (OS2)		
Wavelengths	1310 nm / 1383 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm					
Fiber Code	F	P	Z	E	E		



Single-mode					
Maximum Attenuation	- / - / 0.25 dB/km	0.33 dB/km / - / 0.19 dB/km	0.34 dB/km / 0.34 dB/km / 0.22 dB/km	0.35 dB/km / 0.35 dB/km / 0.25 dB/km	0.4 dB/ km / 0.4 dB/km / 0.3 dB/ km

		U	4 -	-		7		D	2 0
1	2	3	4	5	6	7	8	9	10

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  $\mu$ m multimode (OM2/OM3/OM4)

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®

 $D = TXF^{TM}$  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<sup>®</sup> Cable with FastAccess<sup>™</sup> Technology 8 Select performance option code.

 $30 = 62.5 \mu m \text{ multimode (OM1)}$ 

 $31 = 50 \mu m \text{ multimode (OM2)}$ 

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 Disperson-Shifted Single-mode Fiber

Defines cable type.

D = ALTOS® Gel-Free Cable

Defines special requirements. 20 = No special requirements



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 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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