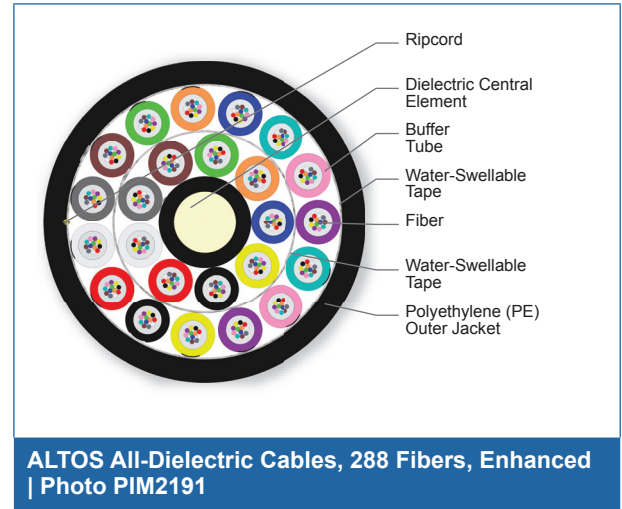
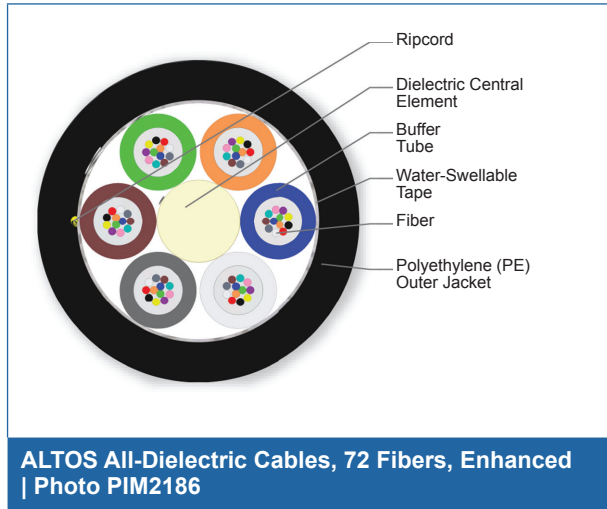




# ALTOS® All-Dielectric Cables, 12-432 Fibers

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## 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.

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

Fiber Count	Product Type	Maximum Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
6	Dielectric	12	6	1	73 kg/km (49 lb/1000 ft)	10.5 mm (0.41 in)	158 mm (6.2 in)	105 mm (4.1 in)
12 - 72	Dielectric		6	1 - 6	80 kg/km (54 lb/1000 ft)	10.5 mm (0.41 in)	158 mm (6.2 in)	105 mm (4.1 in)
96	Dielectric		8	8	108 kg/km (72 lb/1000 ft)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)
144	Dielectric		12	12	177 kg/km (119 lb/1000 ft)	15.8 mm (0.62 in)	237 mm (9.3 in)	158 mm (6.2 in)
192 - 216	Dielectric		18	16 - 18	169 kg/km (113 lb/1000 ft)	16.0 mm (0.63 in)	240 mm (9.4 in)	160 mm (6.3 in)

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Fiber Count	Product Type	Maximum Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
288	Dielectric		24	24	226 kg/km (152 lb/1000 ft)	18.2 mm (0.72 in)	273 mm (10.7 in)	182 mm (7.2 in)
360 - 432	Dielectric		36	30 - 36	288 kg/km (194 lb/1000 ft)	21.2 mm (0.83 in)	318 mm (12.5 in)	212 mm (8.3 in)

## Chemical Characteristics

RoHS

Free of hazardous substances according to RoHS 2011/65/EU

## 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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# ALTOS® All-Dielectric Cables, 12-432 Fibers



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				
Fiber Category	G.652				
Fiber Code	P				
Performance Option Code	19				
Wavelengths (nm)	1310/1383/1550				
Maximum Attenuation (dB/km)	0.33/-/0.19				
Typical Attenuation* (dB/km)	0.31/-/0.17				

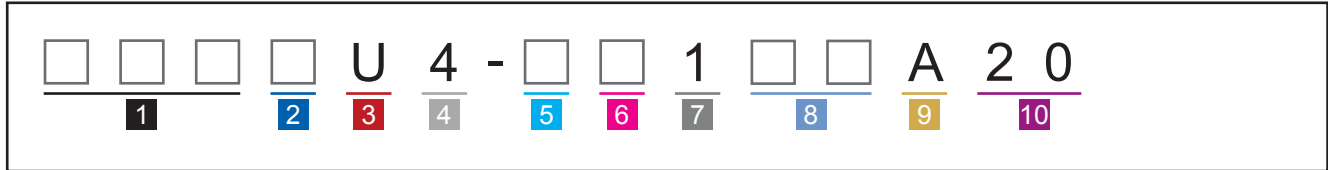
\* For more information on typical attenuation please see the Corning whitepaper at [http://csmedia.corning.com/opcomm//Resource\\_Documents/whitepapers\\_rl/LAN-1863-AEN.pdf](http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf)

\*\* 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.

# ALTOS® All-Dielectric Cables, 12-432 Fibers

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



**1** Select fiber count.

Standard offerings:  
012-432 (Increments of 12)

**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 fiber  
P = Single-mode (G.652) SMF-28® ULL  
F = Single-mode (G.655) LEAF®

**3** Defines cable type.

U = ALTOS® Cable, Enhanced

**4** Defines outer jacket.

4 = 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 tensile strength.

1 = 2700 N/600 lbf (standard)

**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 NZDSF\* (Max. attenuation -/-/0.25 dB/km)

\*Non-Zero Dispersion-Shifted Single-mode Fiber

**9** Defines cable type.

A = Gel-filled 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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