

ALTOS® Gel-Free Double-Jacket, Dielectric Cables, 12-288 Fibers

CORNING

Features and Benefits

Two jacket layers

Provides extra protection in harsh environments

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

Totally gel-free cable design with innovative water-blocking technology

Makes fiber access simple and clean

Polyethylene jacket

Rugged, durable and easy to strip

Exceeds the RDUP requirements for mid-span buffer tube slack storage

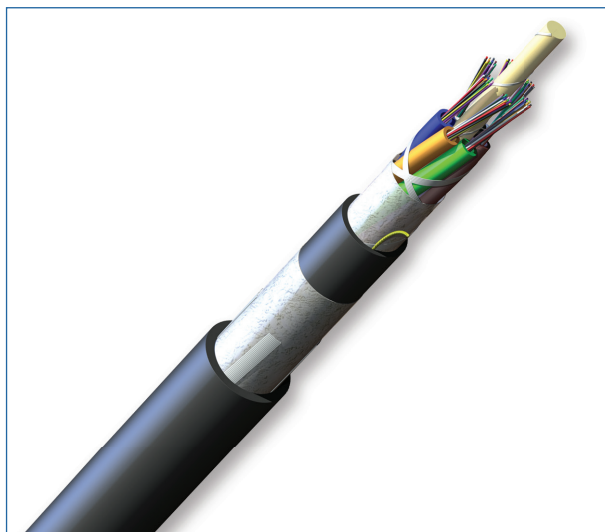
Provides flexibility for mid-span access applications

ALTOS® gel-free double-jacket, dielectric cables are designed for duct and aerial (lashed) installation. The double-jacket construction adds a layer of protection for harsh environments. The loose tube cable design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

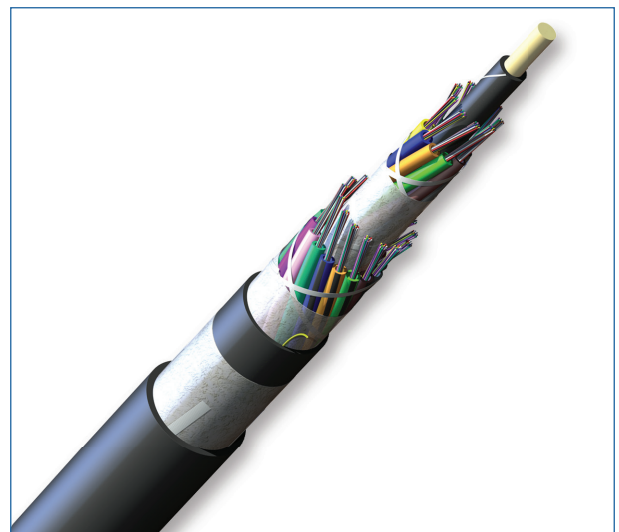
Standards

Design and Test Criteria

ANSI/ICEA S-87-640,
Telcordia GR-20, RDUP
PE-90



ALTOS Gel-Free Double-Jacket, Dielectric Cables,
72 Fibers | Photo PIM1451

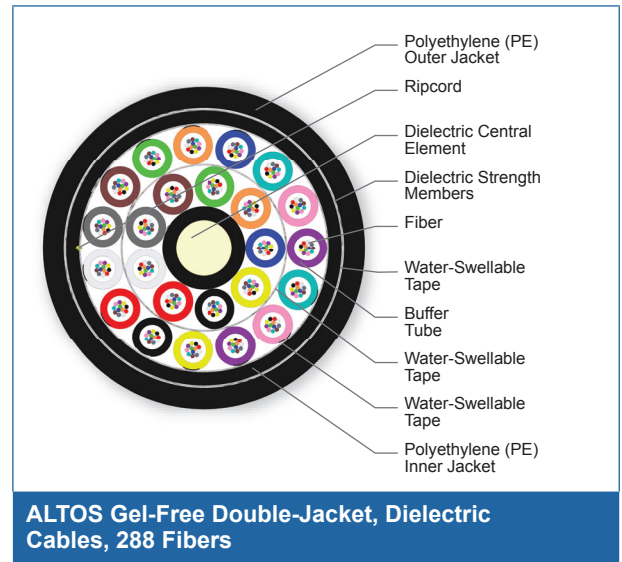
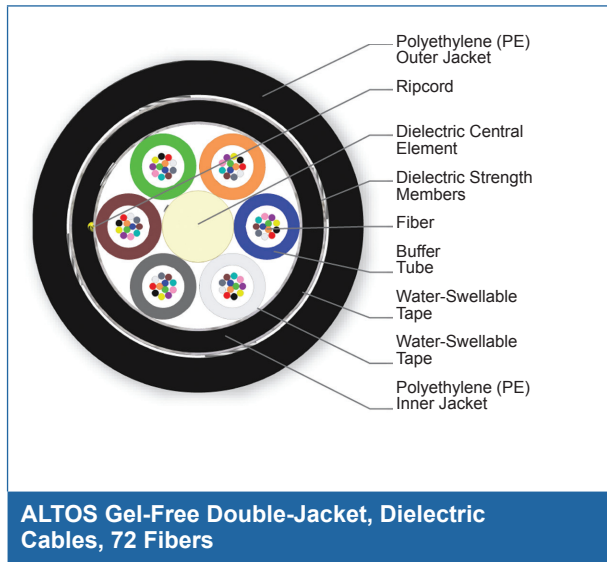


ALTOS Gel-Free Double-Jacket, Dielectric Cables,
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Specifications

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

Fiber Count	Product Type	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
6 - 72	Dielectric	6	1 - 6	107 kg/km (72 lb/1000 ft)	12.5 mm (0.49 in)	188 mm (7.4 in)	125 mm (4.9 in)
96	Dielectric	8	8	137 kg/km (92 lb/1000 ft)	14.2 mm (0.56 in)	213 mm (8.4 in)	142 mm (5.6 in)
144	Dielectric	12	12	209 kg/km (140 lb/1000 ft)	17.7 mm (0.70 in)	266 mm (10.5 in)	177 mm (7 in)

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Fiber Count	Product Type	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
192 - 216	Dielectric	18	16 - 18	195 kg/km (131 lb/1000 ft)	17.9 mm (0.70 in)	269 mm (10.6 in)	179 mm (7 in)
288	Dielectric	24	24	249 kg/km (167 lb/1000 ft)	20.1 mm (0.79 in)	302 mm (11.9 in)	201 mm (7.9 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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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

** 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.*

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

1 Select fiber count. Standard offerings: 012-288 (Increments of 12)	3 Defines cable type. U = ALTOS® Loose Tube Cable with 2.5 mm buffer tubes	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) <i>*Non-Zero Dispersion-Shifted Single-mode Fiber</i>
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)	4 Defines outer jacket. E = Double-jacket, all-dielectric 5 Select fiber placement. T = 12 fibers/buffer tube (standard) 6 = 6 fibers/buffer tube <i>See Note 1.</i> 6 Select length markings. 3 = Markings in meters 4 = Markings in feet (standard) 7 Defines tensile strength. 1 = 2700 N/600 lbf (standard)	9 Defines cable type. D = 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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