ALTOS® Lite™ Gel-Free, Single-Jacket, Single-Armor Cables, 6-288 Fibers

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Features and Benefits

Fully waterblocked loose tube gel-free design
Simple access and no clean up

Single-armored construction
Provides additional crush and rodent protection

Medium-density polyethylene jacket
Rugged, durable and easy to strip while providing superior protection against UV radiation, fungus, abrasion and other environmental factors

Available in 62.5 µm, 50 µm, single-mode (including bend-insensitive and non-zero dispersion shifted fiber (NZ-DSF) options) and hybrid versions
Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

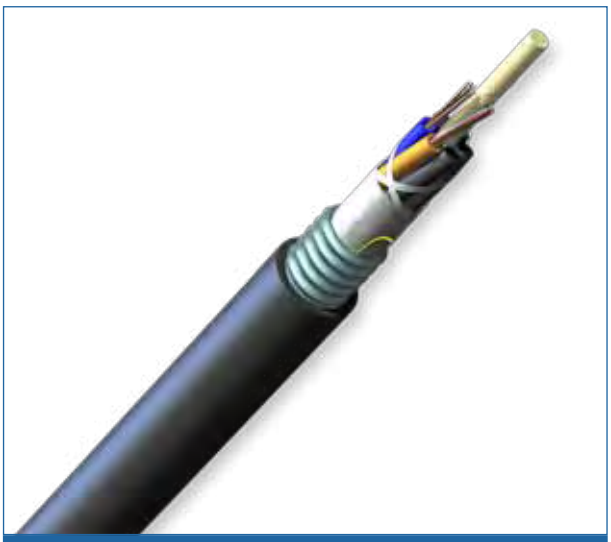
Standards

Common Installations	Outdoor lashed aerial, duct and direct-buried; 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 listed

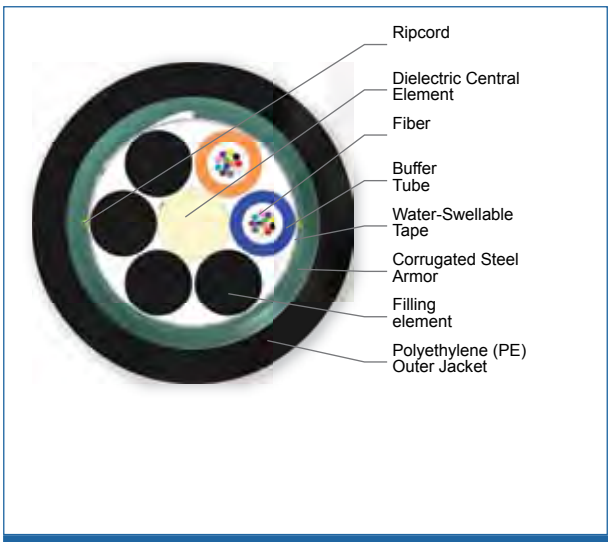
Corning Cable Systems ALTOS® Lite™ Gel-Free, Single-Jacket, Single-Armored Cables are designed for campus backbones in direct-buried installations. The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. These cables also provide high-fiber density within a given cable diameter while allowing flexibility to suit many system configurations.

The single armored construction provides additional crush and rodent protection with a high-strength ripcord under the armor for easy stripping. Gel-free means the cables are fully waterblocked using craft-friendly, water-swellable materials which make cable access simple and require no clean up. The flexible, craft-friendly 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. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.

A variety of fiber types are available including 62.5 µm, 50 µm, single-mode and hybrid versions as well as fibers with Gigabit Ethernet and 10 Gigabit Ethernet performance. These cables are also available with optional extended operating temperature to -50°C (-58°F) in a variety of fiber counts.



ALTOS® Lite Gel-Free, Single-Jacket, Single-Armored Cables, 24-Fibers



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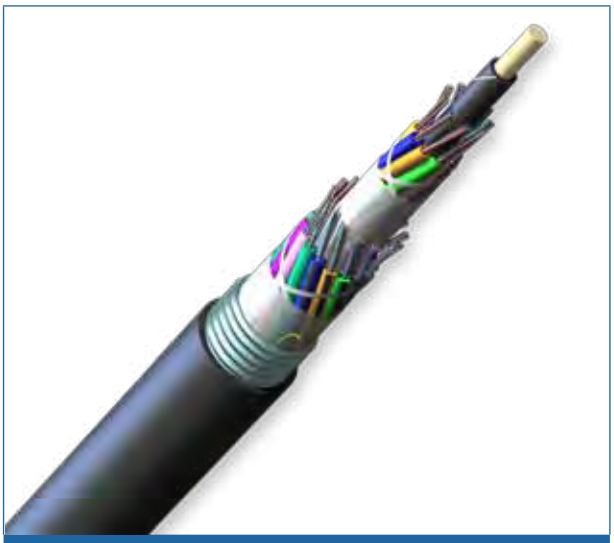
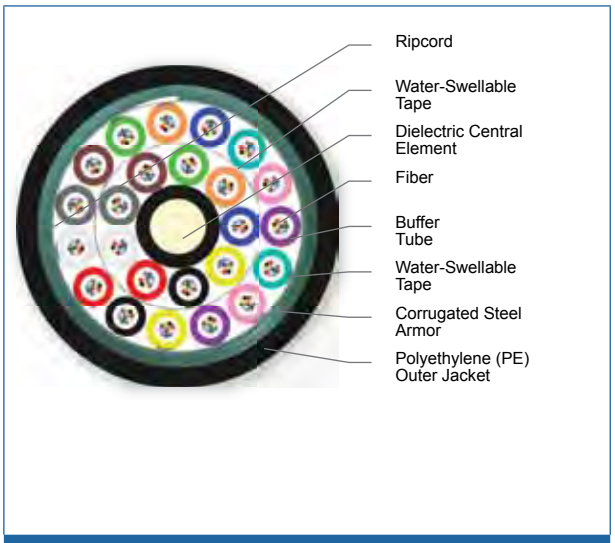


ALTOS® Lite Gel-Free, Single-Jacket, Single-Armored Cables, 288-Fibers



ALTOS® Lite Gel-Free, Single-Jacket, Single-Armored Cables, 288-Fibers

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)

** Corning Cable Systems 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 Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, 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 - 72	Armored	12	6	1 - 6	129 kg/km (87 lb/1000 ft)	12.1 mm (0.48 in)	182 mm (7.2 in)	121 mm (4.8 in)
96	Armored	12	8	8	162 kg/km (109 lb/1000 ft)	13.8 mm (0.54 in)	207 mm (8.1 in)	138 mm (5.4 in)
144	Armored	12	12	12	245 kg/km (164 lb/1000 ft)	17.5 mm (0.69 in)	263 mm (10.4 in)	175 mm (6.9 in)

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ALTOS® Lite™ Gel-Free, Single-Jacket, Single-Armor Cables, 6-288 Fibers

Fiber Count	Product Type	Maxi-mum Fibers per Tube	Number of Tube Posi-tions	Number of Active Tubes	Weight	Nominal Outer Diam-eter	Min. Bend Radius Installation	Min. Bend Radius Operation
192 - 216	Armored	12	18	16 - 18	233 kg/km (156 lb/1000 ft)	17.7 mm (0.7 in)	266 mm (10.5 in)	177 mm (7 in)
288	Armored	12	24	24	293 kg/km (196 lb/1000 ft)	20 mm (0.79 in)	300 mm (11.8 in)	200 mm (7.9 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/EG

Transmission Performance

Fiber Type Fiber Core Diameter (µm)	Multimode 62.5	Multimode 50	Multimode 50	Multimode 50	Single-mode 8.2	Single-mode 8.2
Fiber Category	OM1	OM2	OM3	OM4	OS2	OS2
Fiber Code	K	T	T	T	E	E
Performance Option Code	30	31	80	90	01	00
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310 / 1383 / 1550	1310 / 1383 / 1550
Maximum Attenuation (dB/km)	3.4 / 1.0	3.0 / 1.0	3.0 / 1.0	3.0 / 1.0	0.4 / 0.4 / 0.3	0.35 / 0.35 / 0.25
Serial 1 Gigabit Ethernet (m)	300 / 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -	5000 / - / -
Serial 10 Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000	10000 / - / 40000
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 / -		

* *Single-mode (OS2) fiber is ITU-T G.652.D compliant.*
* *OM4 Multimode fiber 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.*

Notes: 1) *Improved attenuation and bandwidth options available.*
2) *Bend-insensitive single-mode fibers available on request.*
3) *50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
4) *Contact a Corning Cable Systems Customer Care Representative for additional information.*

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Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

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

1 Select fiber count.
Standard offerings:
006 - 288
Increments of 12

2 Select fiber code.
K = 62.5 µm multimode, OM1
T = 50 µm multimode, OM2
E = Single-mode, OS2 SMF-28e+®

3 Defines cable type.
U = ALTOS® Loose Tube Cable with 2.5 mm buffer tubes

4 Defines outer jacket.
C = Single-jacket, single-armored

5 Defines fiber placement.
T = 12 fibers/buffer tube (standard)

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
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)

9 Defines cable type.
D = Gel-Free Cable

10 Defines special requirements.
20 = No special requirements

RoHS COMPLIANT

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