

ALTOS® Lite Loose Tube, Gel-Free, Double-Jacket, Double-Armored Cable

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Corning ALTOS® Lite gel-free double-jacket, double-armored cables are rugged cables designed for direct-buried installations. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Two jacket layers and two steel tape armor layers

Provides superior rodent resistance for direct-buried applications

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

Gel-free waterblocking technology

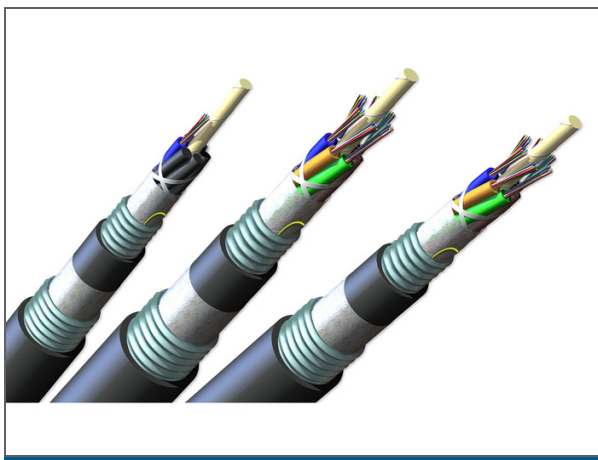
Craft-friendly cable preparation

Polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

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

Provides flexibility for mid-span access applications



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

Specifications

General Specifications	
Environment	Outdoor
Product Type	Dielectric armor
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)

Design Characteristics Cable				
Fiber Count	Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Buffer Tube Diameter
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)

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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
12 - 72	16.1 mm (0.63 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	484 mm (19.06 in)	322 mm (12.68 in)
96	17.8 mm (0.7 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	534 mm (21.02 in)	356 mm (14.02 in)
144	21.6 mm (0.85 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	648 mm (25.51 in)	432 mm (17.01 in)
192 - 216	21.8 mm (0.86 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	654 mm (25.75 in)	436 mm (17.17 in)
288	24.2 mm (0.95 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	726 mm (28.58 in)	484 mm (19.06 in)

Transmission Performance

Multimode

Fiber Category	OM1	OM2	OM3	OM4
Fiber Code	K	T	T	T
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 / -

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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	1310 nm / 1383 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm
Fiber Code	F	P	Z	E	E
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

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- | | | |
|---|--|--|
| <p>1 Select fiber count.
Standard offerings:
012-216 (Increments of 12)</p> | <p>4 Defines outer jacket.
D = Double-jacket, double-armored</p> | <p>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></p> |
| <p>2 Select fiber code.
K = 62.5 μm multimode (OM1)
T = 50 μm 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™ Single-mode (G.654.E)</p> | <p>5 Select fiber placement.
T = 12 fibers/buffer tube
(standard)
6 = 6 fibers/buffer tube
<i>See Note 1.</i></p> | <p>9 Defines cable type.
D = Gel-free cable</p> |
| <p>3 Defines cable type.
U = ALTOS® Loose Tube Cable
with 2.5 mm buffer tubes</p> | <p>6 Select length markings.
3 = Markings in meters
4 = Markings in feet (standard)</p> | <p>10 Defines special requirements.
20 = No special requirements</p> |
| <p>7 Defines tensile strength.
1 = 2700 N/600 lbf (standard)</p> | | |

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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