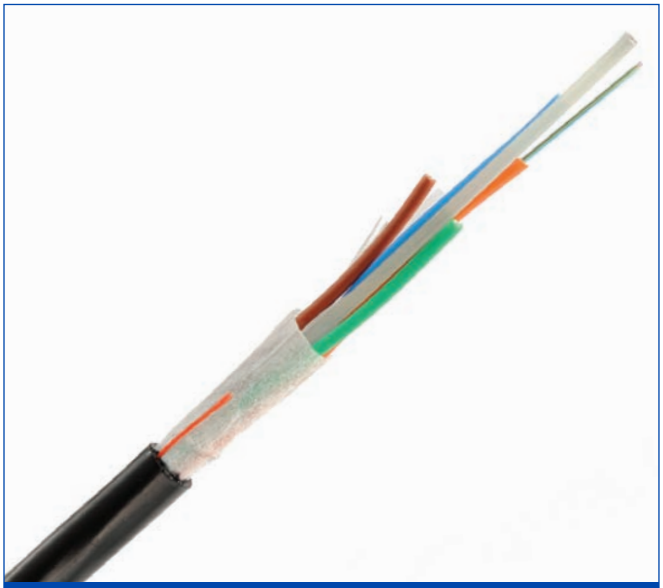
ALTOS® All-Dielectric Gel-Free Cables

A LANscape® Solutions Product

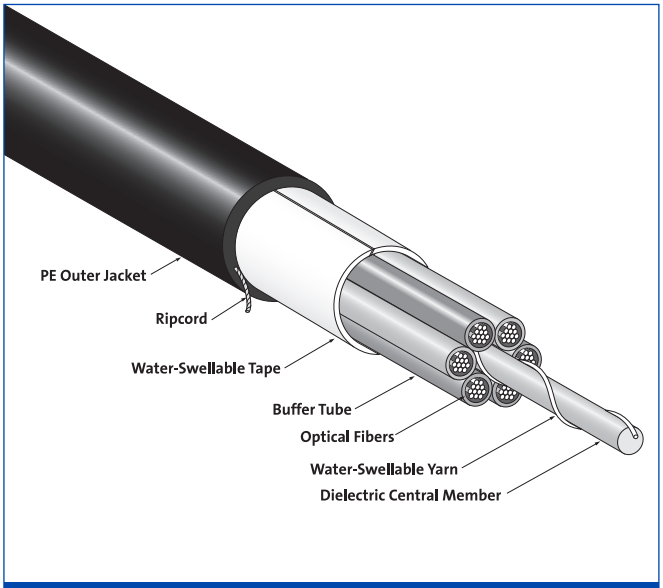
features and benefits |

Fully waterblocked loose tube gel-free design	Simple access and no clean up
Medium density polyethylene jacket	Rugged, durable and easy to strip
All-dielectric cable construction	Requires no grounding or bonding
Available in 62.5 µm, 50 µm, single-mode and hybrid versions	Ready for any application including Gigabit and 10 Gigabit Ethernet

Corning Cable Systems ALTOS® All-Dielectric Gel-Free Cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials which means cable access is simple and no clean up is required. 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. The all-dielectric cable construction requires no bonding or grounding and 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 All-Dielectric Gel-Free Cable | Photo LAN1278



ALTOS All-Dielectric Gel-Free Cable | Drawing ZA-3405

Sold by:
TWAcomm.com
http://www.TWAcomm.com
Toll Free: (877) 389-0000

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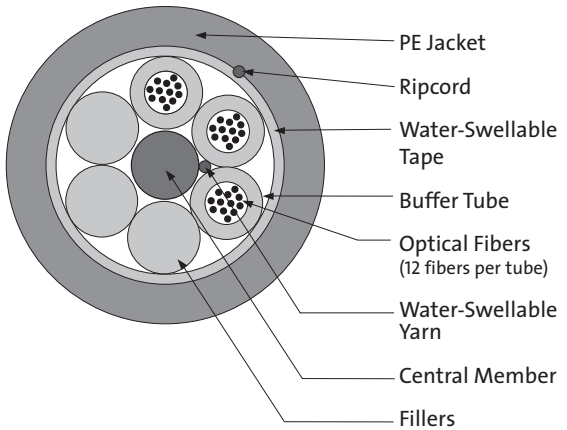
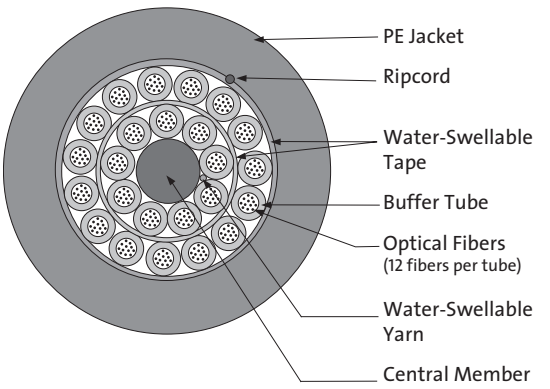


ALTOS Single-Jacket, Non-Armored Cable, 36-Fiber | Drawing ZA-3403



ALTOS Single-Jacket, Non- Armored High Density Cable, 288-Fiber | Drawing ZA-3404

specifications |

Maximum Tensile Loads	Short-Term: Long-Term:	2700 N (600 lbf) 890 N (200 lbf)
Temperatures	Storage: Installation: Operation:	-40° to +70°C (-40° to +158°F) -30° to +70°C (-22° to +158°F) -40° to +70°C (-40° to +158°F)
Common Installations	Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770	
Design and Test Criteria	ANSI/ICEA S-87-640	

Fiber Count	Maximum Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Central Member	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
2-72	12	6	1-6	Dielectric	73 (49)	10.5 (0.41)	15.8 (6.2)	10.5 (4.1)
73-96	12	8	7-8	Dielectric	98 (66)	12.2 (0.48)	18.3 (7.2)	12.2 (4.8)
97-144	12	12	9-12	Dielectric	162 (109)	15.8 (0.62)	23.7 (9.3)	15.8 (6.2)
145-216	12	18	13-18	Dielectric	147 (99)	16.0 (0.63)	24.0 (9.4)	16.0 (6.3)
217-288	12	24	19-24	Dielectric	196 (131)	18.2 (0.72)	27.3 (10.7)	18.2 (7.2)

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transmission performance |

	LANscape® 62.5 Solutions	Pretium™ 150 Solutions	Pretium 300 Solutions	Pretium 550 Solutions	Pretium 600 Solutions	Single-Mode
Fiber Code	K	C	S	S	S	E
Performance Option Code	30	31	80	90	91	01
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode****
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3***	OM3***	OM3***	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.4/0.3
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	1500/500	1500/500	– / – / –
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ –	950/ –	2000/ –	4700/ –	5350/ –	– / – / –
Serial 1 Gig Distance (m)	300/550	750/600	1000/600	1000/600	1000/600	5000 / – / –
Serial 10 Gig Distance (m)	33/ –	150/ –	300/ –	550*/ –	600**/ –	10000/ – /40000

** Assumes 1.0 dB maximum total connector/splice loss.*
*** Assumes 0.7 dB maximum total connector/splice loss.*
**** Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™ Systems solutions.*
***** ITU 652.D compliant.*

Notes:
1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact Corning Cable Systems Customer Service Representative for additional information.

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ordering information | Contact Customer Service at 800-743-2671 for non-standard offerings.

☐	☐	☐	☐	U	4	-	T	4	1	☐	☐	D	2	0
1	2	3	4	5	6		7	8	9	10	11	12	13	14

1-3

Select fiber count.

Standard offerings:

012	048	096	216
024	060	144	288
036	072	192	

4

Select fiber type (see Transmission Performance table).

5 / 12

Defines cable type.

U / D = ALTOS® Gel-Free Cable

6

Defines outer jacket.

4 = All-dielectric

7

Defines fiber placement.

T = 12 fibers/buffer tube (standard)

8

Defines length markings.

4 = Markings in feet (standard)

9

Defines tensile strength (see Specifications).

10-11

Select performance option code (see Transmission Performance table).

13-14

Defines special requirements.

20 = No special requirements

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-901-5973 • International: +1-828-901-5000 • www.corning.com/cablesystems

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