

Applications

- Campus backbones in lashed aerial and duct installations

Description

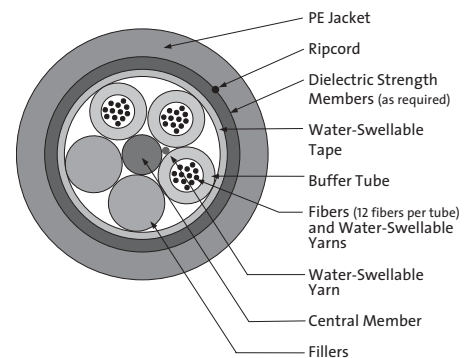
Corning Cable Systems ALTOS® Cables are designed for outdoor and limited indoor use. The loose tube cable is waterblocked to prevent water penetration that could lead to fiber damage.

Features / Benefits

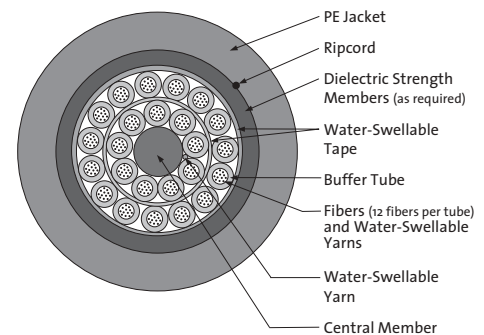
- Gel-free design is fully waterblocked using craft-friendly water-swallowable yarns and tapes, making cable access simple and requiring no clean up
- Available in 62.5 μm, 50 μm, single-mode and hybrid versions
- Standard 3.0 mm buffer tube size reduces the number of access tools required by craftspersons
- SZ-stranded, loose tube design isolates fibers from installation, environmental rigors and allows for easy mid-span access
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Available with extended operating temperature to -60°C (-76°F)
- All-dielectric cable construction requires no bonding or grounding
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



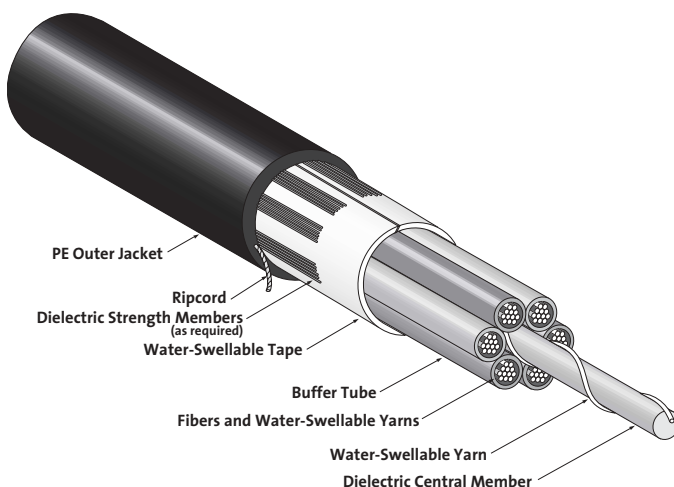
ALTOS All-Dielectric Gel-Free Cable | Photo LAN101



36-Fiber ALTOS Single-Jacket/No-Armor Cable | Drawing CPC-220/1/1



288-Fiber ALTOS Single-Jacket/No-Armor High-Density Cable
| Drawing CPC-220/1/2



ALTOS All-Dielectric Gel-Free Cable | Drawing CPC-220/1/3

Specifications

Maximum Tensile Loads	Short-Term: 2700 N (600 lbf)
	Long-Term: 890 N (200 lbf)
Temperatures	Storage: -40° to +70°C (-40° to +158°F)
	Installation: -30° to +70°C (-22° to +158°F)
	Operation: -40° to +70°C (-40° to +158°F)
Approval and Listings	RUS 7 CFR 1755.900
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	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outer Diameter mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
≤ 60	12	5	91 (61)	12.1 (0.48)	18.2 (7.1)	12.1 (4.8)
≤ 72	12	6	94 (63)	12.2 (0.48)	18.8 (7.4)	12.2 (4.8)
≤ 96	12	8	124 (83)	14.1 (0.56)	21.4 (8.4)	14.1 (5.6)
≤ 120	12	10	161 (108)	16.1 (0.63)	24.3 (9.6)	16.1 (6.3)
≤ 192	12	16	164 (110)	17.6 (0.69)	26.7 (10.5)	17.6 (6.9)
≤ 216	12	18	183 (123)	18.4 (0.72)	27.8 (10.9)	18.4 (7.2)
≤ 240	12	20	202 (135)	19.3 (0.76)	29.1 (11.5)	19.3 (7.6)
≤ 288	12	24	252 (169)	21.5 (0.85)	32.3 (12.7)	21.5 (8.5)

Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	01
Fiber Type	62.5/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	0.4/0.4/0.3
Minimum LED Bandwidth (MHz•km)	200/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz•km)	220/ - *	510/ - *	2000/ - *	4700/ - *	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	300/ -	550/ -	10000/40000

*EMB when deployed with 850 nm, 1 Gb/s VCSELs, as predicted by RML Bandwidth using FOTP-204.

Ordering Information *Contact Customer Service for availability of non-standard offerings.*

□ □ □ □ W 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:

004 012 024 072 144 216
006 018 036 096 192 288

4 Select fiber type (see Transmission Performance Table).

5 / 12 Defines cable type.

W/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

1-800-743-2675 • FAX: +1-828-901-5973 • International: +1-828-901-5000 • <http://www.corning.com/cablesystems>

Corning Cable Systems reserves the right to improve, enhance and modify the features and specifications of Corning Cable Systems products without prior notification. ALTOS and LANscape are registered trademarks of Corning Cable Systems Brands, Inc. Pretium is a trademark of Corning Cable Systems Brands, Inc. Discovering Beyond Imagination is a trademark of Corning Incorporated. All other trademarks are the properties of their respective owners. Corning Cable Systems is ISO 9001 certified. © 2001, 2006 Corning Cable Systems. All rights reserved. Published in the USA. LAN-78-EN / January 2006 / pdf