

ALTOS® All-Dielectric Gel-Free Cables

A LANscape® Pretium™ Solutions Product

Applications

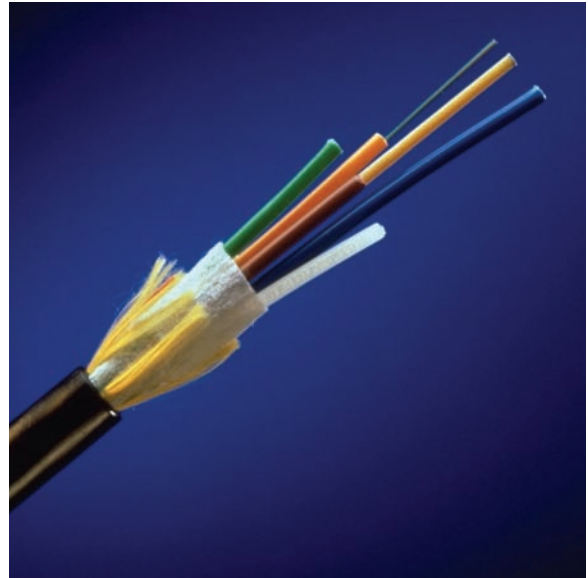
- Campus backbones in lashed aerial and duct installations

Description

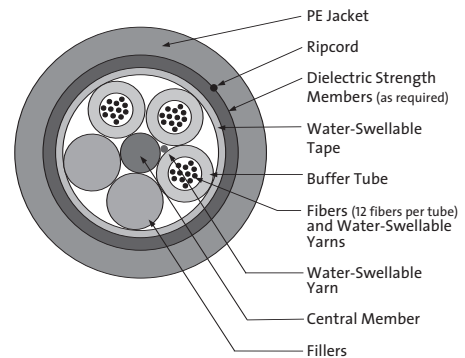
Corning Cable Systems ALTOS® Cables are designed for outdoor and limited indoor use. The loose tube cable is waterblocked to prevent water penetration that could lead to fiber damage.

Features / Benefits

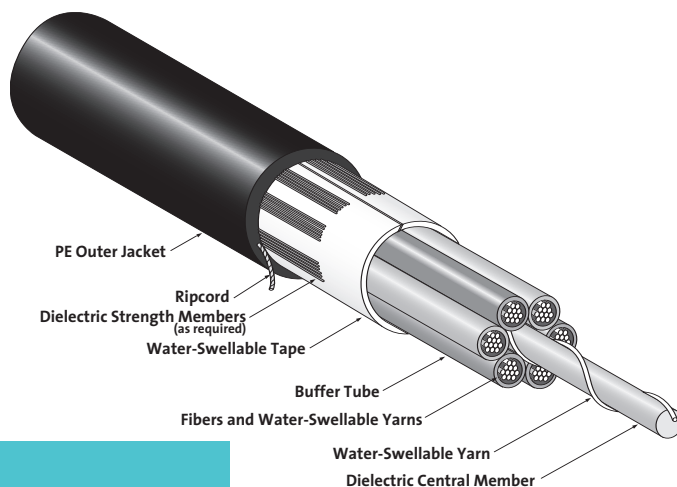
- Gel-free design is fully waterblocked using craft-friendly water-swappable yarns and tapes, making cable access simple and requiring no clean up
- Available in 62.5 μm, 50 μm, single-mode and hybrid versions
- Standard 3.0 mm buffer tube size reduces the number of access tools required by craftspersons
- SZ-stranded, loose tube design isolates fibers from installation, environmental rigors and allows for easy midspan 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



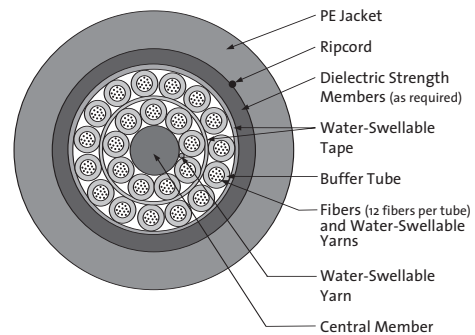
ALTOS All-Dielectric Gel-Free Cable | Photo LAN101



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



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



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



Product Specifications

ALTOS® All-Dielectric Gel-Free Cables

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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 | RDUP 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 | Number of Active Tubes | Central Member | Nominal Cable Weight kg/km (lb/1000 ft) | Nominal Outer Diameter mm (in) | Minimum Bend Radius | |
|-------------|-------------------------|--------------------------|------------------------|----------------|---|--------------------------------|---------------------|-------------------|
| | | | | | | | Loaded cm (in) | Installed cm (in) |
| 2 - 60 | 12 | 5 | 3 - 5 | Dielectric | 78 (52) | 11.3 (0.44) | 17.0 (6.7) | 11.3 (4.4) |
| 61 - 72 | 12 | 6 | 6 | Dielectric | 91 (61) | 12.0 (0.47) | 18.0 (7.1) | 12.0 (4.7) |
| 73 - 96 | 12 | 8 | 7 - 8 | Dielectric | 120 (80) | 13.9 (0.55) | 20.9 (8.2) | 13.9 (5.5) |
| 97 - 120 | 12 | 10 | 9 - 10 | Dielectric | 157 (105) | 15.9 (0.63) | 23.9 (9.4) | 15.9 (6.3) |
| 121 - 192 | 12 | 16 | 11 - 16 | Dielectric | 159 (107) | 17.4 (0.69) | 26.1 (10.3) | 17.4 (6.9) |
| 193 - 216 | 12 | 18 | 17 - 18 | Dielectric | 178 (119) | 18.2 (0.72) | 27.8 (10.7) | 18.2 (7.2) |
| 217 - 240 | 12 | 20 | 19 - 20 | Dielectric | 197 (132) | 19.1 (0.75) | 28.7 (11.3) | 19.1 (7.5) |
| 241 - 288 | 12 | 24 | 21 - 24 | Dielectric | 246 (165) | 21.3 (0.84) | 32.0 (12.6) | 21.3 (8.4) |

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

LANscape®
Pretium™ Solutions

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