

# ALTOS® Loose Tube, Gel-Free Cable

108 F, 62.5 μm multimode (OM1)

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Corning 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-swallowable 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 mid-span 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.

## Features and Benefits

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Medium-density polyethylene jacket

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

### All-dielectric construction

Requires no grounding or bonding

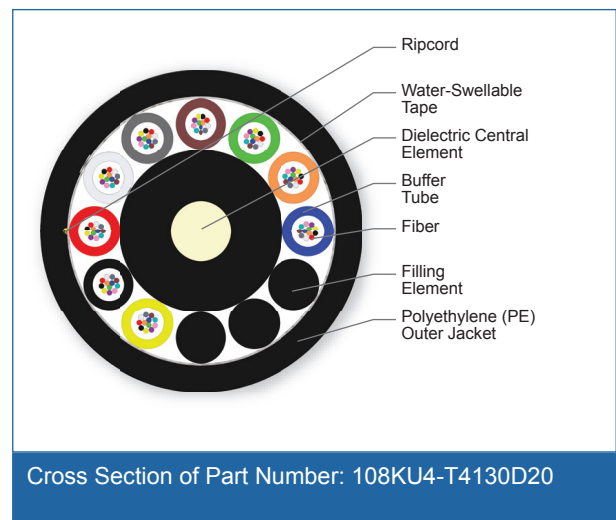
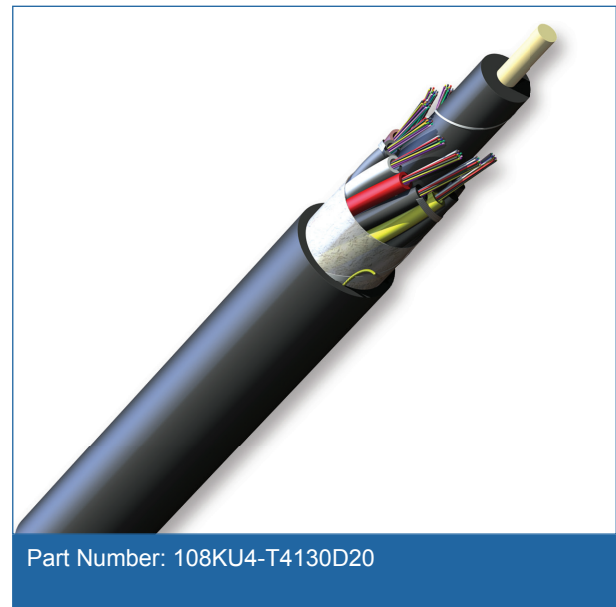
## Standards

### 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



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## Specifications

| General Specifications |                       |
|------------------------|-----------------------|
| Environment            | Outdoor               |
| Application            | Aerial, Duct          |
| Cable Type             | Loose Tube            |
| Product Type           | Dielectric            |
| Fiber Category         | 62.5 $\mu$ m MM (OM1) |

| 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) |

| Cable Design               |  |
|----------------------------|--|
| Central Element            | Dielectric   |
| Fiber Count                | 108  |
| Fiber Coloring             | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube            | 12   |
| Number of Tube Positions   | 12   |
| Number of Active Tubes     | 9  |
| Buffer Tube Color Coding   | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow                     |
| Buffer Tube Diameter       | 2.5 mm (0.1 in)  |
| Number of Filling Elements | 3  |
| Tape                       | Water-swellable  |
| Number of Ripcords         | 1  |
| Outer Jacket Material      | Polyethylene (PE)  |
| Outer Jacket Color         | Black  |
| Maximum Fibers per Tube    | 12   |

| Mechanical Characteristics Cable  |                            |
|-----------------------------------|----------------------------|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf)           |
| Max. Tensile Strength, Long-Term  | 890 N (200 lbf)            |
| Weight                            | 162 kg/km (109 lb/1000 ft) |
| Nominal Outer Diameter            | 15.8 mm (0.62 in)          |

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## Mechanical Characteristics Cable

|                               |                 |
|-------------------------------|-----------------|
| Min. Bend Radius Installation | 237 mm (9.3 in) |
| Min. Bend Radius Operation    | 158 mm (6.2 in) |

## Chemical Characteristics

|      |   |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|---|

## Fiber Specifications

### Optical Characteristics (cabled)

|   |                         |
|---|-------------------------|
| Fiber Core Diameter                     | 62.5 µm                 |
| Fiber Category                          | OM1                     |
| Fiber Code                              | K                       |
| Performance Option Code                 | 30                      |
| Wavelengths                             | 850 nm / 1300 nm        |
| Maximum Attenuation                     | 3.4 dB/km / 1.0 dB/km   |
| Serial 1 Gigabit Ethernet               | 300 m / 550 m           |
| Serial 10 Gigabit Ethernet              | 33 m / -                |
| Min. Overfilled Launch (OFL) Bandwidth  | 200 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 220 MHz*km / -          |

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

## Ordering Information

|                     |   |
|---------------------|---|
| Part Number         | 108KU4-T4130D20   |
| Product Description | ALTOS® Loose Tube, Gel-Free Cable, 108 F, 62.5 µm multimode (OM1) |
| EAN Code            | 4056418163437   |

# ALTOS<sup>®</sup> Loose Tube, Gel-Free Cable

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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

## Notes



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