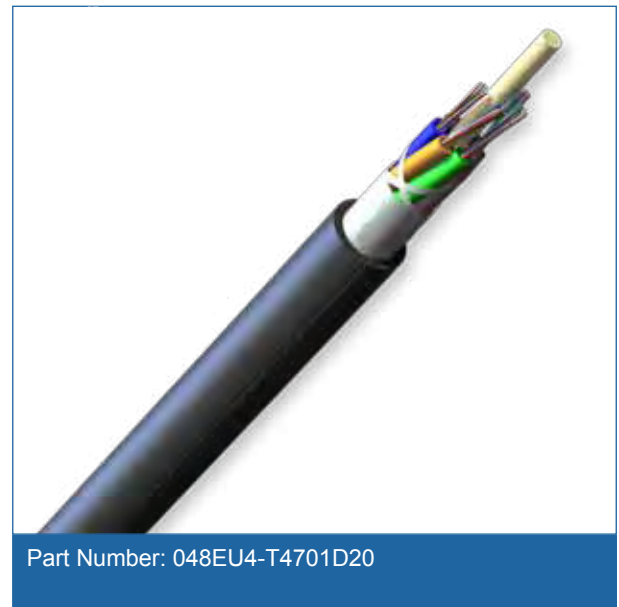


# ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess™ Technology

48 F, Single-mode (OS2)

CORNING

Corning Cable Systems ALTOS® Cable with FastAccess™ Technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The innovative FastAccess Technology feature combined with the all-dielectric gel-free loose tube design simplifies removal of the cable jacket reducing cable end access time by at least 50 percent. Equally important is the overall reduction in risk of inadvertent fiber damage and risk to installers from sharp cable access tools. The cable is fully waterblocked using craft-friendly, water-swellaible materials, which means no clean up is required. The flexible 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 gel-free cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable, and easy to handle. A variety of fiber types are available including 62.5 μm and 50 μm, single-mode and hybrid versions, as well as fibers with Gigabit and 10 Gigabit Ethernet performance.



## Features and Benefits

### Contains FastAccess™ Technology

Innovative cable jacket feature reduces cable end access time by at least 50 percent and reduces overall risk of inadvertent fiber damage as well as risk to installers from sharp cable access tools

### Medium-density polyethylene jacket

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

### Fully waterblocked loose tube all-dielectric gel-free design

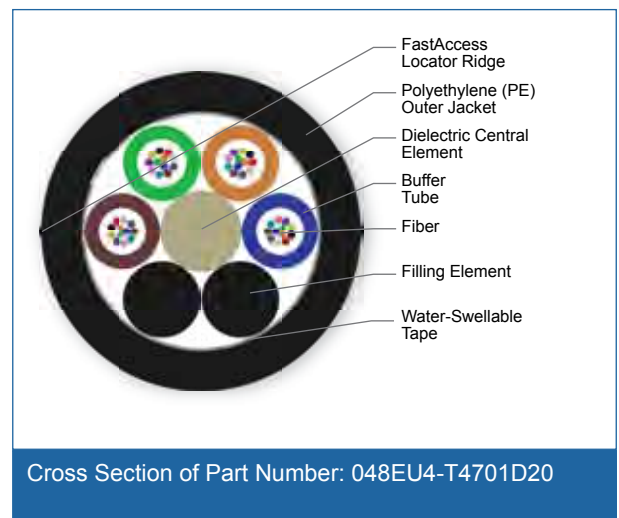
Simple access and no clean up

### Industry-standard performance

Meets the requirements of Telcordia GR-20, Issue 3 and ICEA S-87-640

### Available in 62.5 μm, 50 μm, single-mode and hybrid versions

Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet



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## 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

## Specifications

| General Specifications |                   |
|------------------------|-------------------|
| Environment            | Outdoor           |
| Application            | Aerial, Duct      |
| Cable Type             | Loose Tube        |
| Product Type           | Dielectric        |
| Fiber Category         | Single-mode (OS2) |

| 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                | 48   |
| Fiber Coloring             | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube            | 12   |
| Number of Tube Positions   | 6  |
| Number of Active Tubes     | 4  |
| Buffer Tube Color Coding   | Blue, Orange, Green, Brown   |
| Buffer Tube Diameter       | 2.5 mm (0.1 in)  |
| Number of Filling Elements | 2  |
| Tape                       | Water-swellable  |
| Number of Ripcords         | 1  |
| Outer Jacket Material      | Polyethylene (PE)  |

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## Cable Design

|                         |       |
|-------------------------|-------|
| Outer Jacket Color      | Black |
| Maximum Fibers per Tube | 12    |

## Mechanical Characteristics Cable

|                                    |                          |
|------------------------------------|--------------------------|
| Max. Tensile Strengths, Short-Term | 2700 N (600 lbf)         |
| Max. Tensile Strengths, Long-Term  | 890 N (200 lbf)          |
| Weight                             | 73 kg/km (49 lb/1000 ft) |
| Nominal Outer Diameter             | 10.5 mm (0.41 in)        |
| Min. Bend Radius Installation      | 158 mm (6.2 in)          |
| Min. Bend Radius Operation         | 105 mm (4.1 in)          |

## Chemical Characteristics

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

## Fiber Specifications

### Optical Characteristics (cabled)

|                            |                                   |
|----------------------------|-----------------------------------|
| Fiber Type                 | Single-mode                       |
| Fiber Core Diameter        | 8.2 μm                            |
| Fiber Category             | OS2                               |
| Fiber Code                 | E                                 |
| Performance Option Code    | 01                                |
| Wavelengths                | 1310 nm / 1383 nm / 1550 nm       |
| Maximum Attenuation        | 0.4 dB/km / 0.4 dB/km / 0.3 dB/km |
| Serial 1 Gigabit Ethernet  | 5000 m / - / -                    |
| Serial 10 Gigabit Ethernet | 10000 m / - / 40000 m             |

\* ITU-T G.652 D compliant.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

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

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## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | 048EU4-T4701D20  |
| Product Description | ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess™ Technology, 48 F, Single-mode (OS2) |



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