

# ALTOS® Loose Tube, Gel-Free Cable

36 F, 50 µm multimode (OM3)

CORNING

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

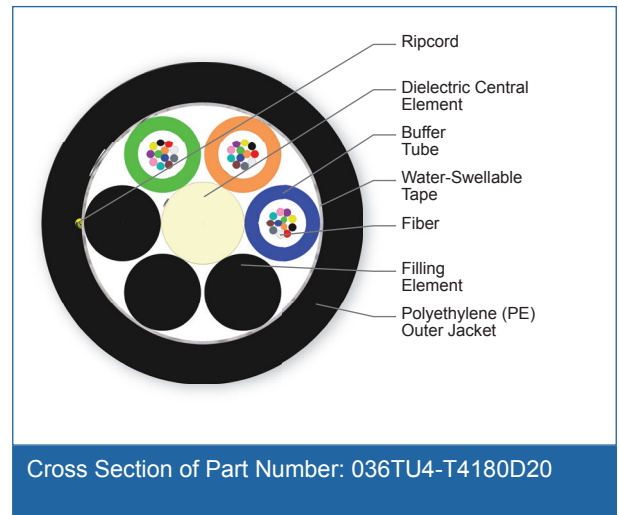
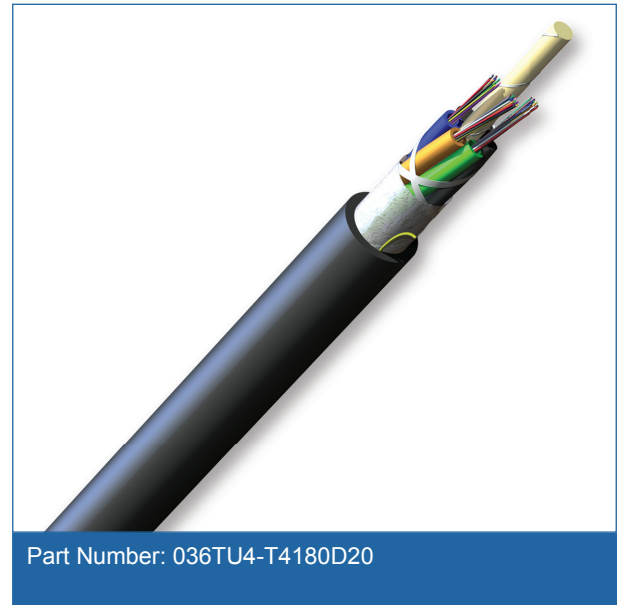
## Standards

### 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



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

36 F, 50 µm multimode (OM3)

CORNING

## Specifications

| General Specifications |                |
|------------------------|----------------|
| Environment            | Outdoor        |
| Application            | Aerial, Duct   |
| Cable Type             | Loose Tube     |
| Product Type           | Dielectric     |
| Fiber Category         | 50 µm MM (OM3) |

| 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                | 36   |
| 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     | 3  |
| Buffer Tube Color Coding   | Blue, Orange, Green  |
| 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                            | 73 kg/km (49 lb/1000 ft) |
| Nominal Outer Diameter            | 10.5 mm (0.41 in)        |

CORNING

# ALTOS® Loose Tube, Gel-Free Cable

36 F, 50 µm multimode (OM3)

CORNING

## Mechanical Characteristics Cable

|                               |                 |
|-------------------------------|-----------------|
| 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 Core Diameter                     | 50 µm                    |
| Fiber Category                          | OM3                      |
| Fiber Code                              | T                        |
| Performance Option Code                 | 80                       |
| Wavelengths                             | 850 nm / 1300 nm         |
| Maximum Attenuation                     | 3.0 dB/km / 1.0 dB/km    |
| Serial 1 Gigabit Ethernet               | 1000 m / 600 m           |
| Serial 10 Gigabit Ethernet              | 300 m / -                |
| Min. Overfilled Launch (OFL) Bandwidth  | 1500 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 2000 MHz*km / -          |

\* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

2) Improved attenuation and bandwidth options available.

3) Bend-insensitive single-mode fibers available on request.

4) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | 036TU4-T4180D20  |
| Product Description | ALTOS® Loose Tube, Gel-Free Cable, 36 F, 50 µm multimode (OM3) |
| EAN Code            | 4056418173290  |

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

36 F, 50  $\mu$ m multimode (OM3)

The CORNING logo is displayed in white, uppercase letters within a solid blue square.

## Notes



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks).

All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.

The CORNING logo is displayed in large, bold, uppercase letters.