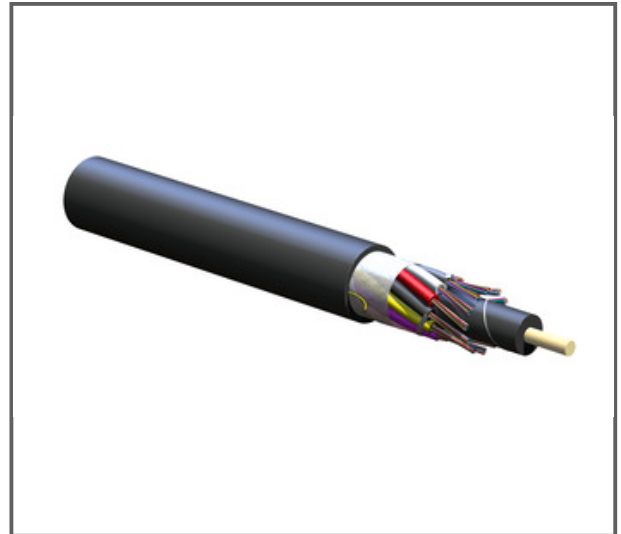


# ALTOS® Loose Tube, Gel-Free Cable 144 F, Single-mode (OS2)

CORNING

## Part Number: **144EU4-T4100D20**

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellaable 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

### **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

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## Specifications

### Mechanical Specifications

|                                   |                    |
|-----------------------------------|--------------------|
| Max. Tensile Strength, Long-Term  | 890 N              |
| Max. Tensile Strength, Short-Term | 2700 N             |
| Min. Bend Radius Installation     | 237 mm (9.33 in)   |
| Min. Bend Radius Operation        | 158 mm (6.22 in)   |
| Nominal Outer Diameter            | 15.8 mm (0.62 in ) |

### Cable Design

|                          |  |
|--------------------------|--|
| Central Element          | Dielectric   |
| Fiber Count              | 144  |
| Buffer Tube Color Coding | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Number of Ripcords       | 1  |
| Outer Jacket Color       | Black  |
| Outer Jacket Material    | Polyethylene (PE)  |
| Buffer Tube Color        | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Buffer Tube Diameter     | 2.5 mm (0.1 in)  |
| Number of Active Tubes   | 12   |
| Number of Tube Positions | 12   |
| Tape                     | Water-swellable  |
| Fiber Coloring           | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube          | 12   |

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## Environmental Conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Temperature Range, Installation | -30 °C - 70 °C (-22 °F - 158 °F) |
| Temperature Range, Storage      | -40 °C - 70 °C (-40 °F - 158 °F) |
| Temperature Range, Operation    | -40 °C - 70 °C (-40 °F - 158 °F) |

## General Specifications

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

## Ordering Information

|        |           |
|--------|-----------|
| Weight | 162 kg/km |
|--------|-----------|

## Standards

|                          |   |
|--------------------------|---|
| RoHS                     | Free of hazardous substances according to RoHS 2011/65/EU   |
| 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  |

## Optical Characteristics

|            |   |
|------------|---|
| Fiber Code | E |
|------------|---|

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## Optical Characteristics

|                         |                                      |
|-------------------------|--------------------------------------|
| Fiber Name              | Single-mode (OS2)                    |
| Fiber Type              | Single-mode                          |
| Performance Option Code | 00                                   |
| Maximum Attenuation     | 0.35 dB/km / 0.35 dB/km / 0.25 dB/km |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm          |
| Fiber Category          | G.652.D                              |



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