

# ALTOS® Low-Temperature, Loose Tube, Gel-Filled Cable

192 F, Single-mode (OS2)

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Corning ALTOS® low-temperature cables are designed for extreme cold temperature environments with an extended operating range of -50° to +70°C (-58° to +158°F). Dielectric and armored jackets allow for duct, direct-buried or aerial (lashed) installation.

## Features and Benefits

**Extended operating temperature range of -50° to +70°C (-58° to +158°F)**

Allows for operation at extreme low temperatures

**Flexible, craft-friendly buffer tubes**

Facilitate easy routing in closures

**Innovative waterblocking design**

Provides efficient and craft-friendly cable preparation

**SZ-stranded, loose tube design**

Isolates fibers from installation and environmental rigors and facilitates mid-span access

**Dielectric central strength member**

No preferential bend and requires no bonding or grounding

**Medium-density polyethylene jacket**

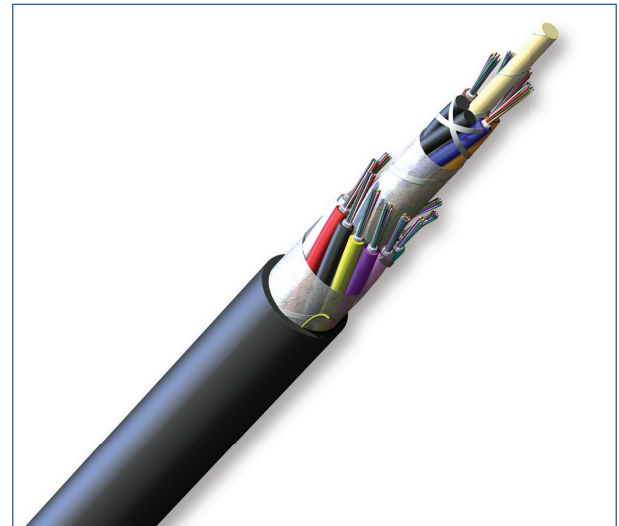
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

## Standards

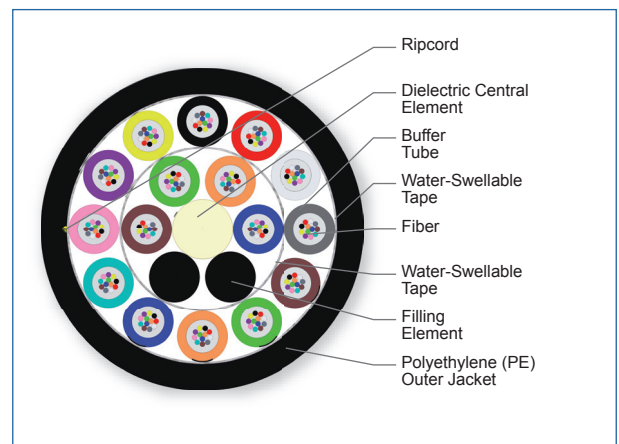
**Approvals and Listings** USDA Rural Development Programs

**Common Installations** Designed for Duct and Aerial Applications

**Design and Test Criteria** Telcordia GR-20, ICEA-640



Part Number: 192EU4-T4101C20



Cross Section of Part Number: 192EU4-T4101C20

## Specifications

### General Specifications

Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube

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## General Specifications

Product Type	Dielectric
Fiber Category	Single-mode (OS2)

## Temperature Range

Storage	-50 °C to 70 °C (-58 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-50 °C to 70 °C (-58 °F to 158 °F)

## Cable Design

Central Element	Dielectric
Fiber Count	192
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	18
Number of Active Tubes	16
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellaable
Buffer Tube Color Coding, Layer 2	Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*
Tape, Layer 2	Water-swellaable
Number of Ripcords	2
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Notes: Tubes 13 to 24 include a co-extruded stripe that is white for the black tube and black for all other tube colors.

## Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	169 kg/km (113 lb/1000 ft)
Nominal Outer Diameter	16 mm (0.63 in)

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## Mechanical Characteristics Cable

Min. Bend Radius Installation	240 mm (9.4 in)
Min. Bend Radius Operation	160 mm (6.3 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
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

## Ordering Information

Part Number	192EU4-T4101C20
Product Description	ALTOS® Low-Temperature, Loose Tube, Gel-Filled Cable, 192 F, Single-mode (OS2)
EAN Code	4056418167114



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