

# ALTOS® Loose Tube, Gel-Filled, Triple-Jacket, Double-Armored Cable

48 F, Single-mode (OS2)

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Corning ALTOS® triple-jacket, double-armored cables are rugged, armored cables designed for direct-buried installations. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

## Features and Benefits

**Three jacket layers and two steel tape armor layers**  
Provide superior rodent resistance for direct-buried applications

**Flexible, craft-friendly buffer tubes**  
Facilitate easy routing in closures

**Innovative waterblocking design**  
Provides efficient and craft-friendly cable preparation

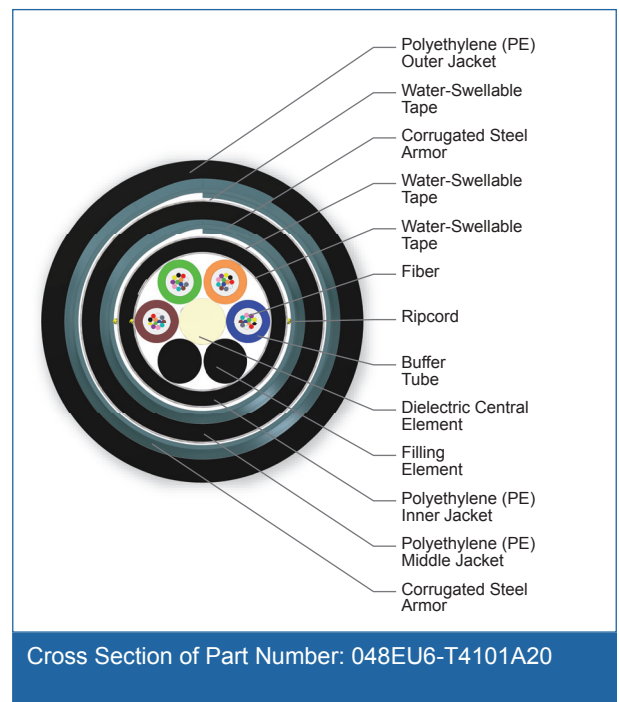
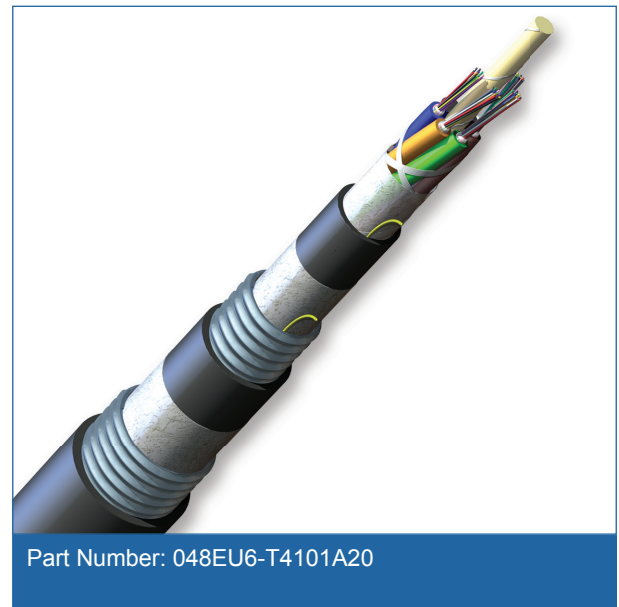
**Medium-density polyethylene jacket**  
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

**Exceeds the RDUP requirements for mid-span buffer tube slack storage**  
Provides flexibility for mid-span access applications

## Standards

**Approvals and Listings**     USDA Rural Development Programs

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



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## Specifications

General Specifications	
Environment	Outdoor
Application	Direct Buried
Cable Type	Loose Tube
Product Type	Armored
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)
Tape	Water-swellaable
Number of Filling Elements	2
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellaable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Intermediate Jacket Material	Polyethylene (PE)
Tape, Layer 3	Water-swellaable
Number of Ripcords	5
Tensile Strength Elements and/or Armoring - Layer 2	Corrugated steel tape armor
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Maximum Fibers per Tube	12

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## Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	317 kg/km (213 lb/1000 ft)
Nominal Outer Diameter	18.3 mm (0.72 in)
Min. Bend Radius Installation	275 mm (10.8 in)
Min. Bend Radius Operation	183 mm (7.2 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	048EU6-T4101A20
Product Description	ALTOS® Loose Tube, Gel-Filled, Triple-Jacket, Double-Armored Cable, 48 F, Single-mode (OS2)
EAN Code	4056418159775



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)

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