

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

12 F, 50 µm multimode (OM2)

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Corning ALTOS® Lite™ double-jacket, double-armored cables are rugged 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

### Two jacket layers and two steel tape armor layers

Provides superior rodent resistance for direct-buried applications

### Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

### Cable core features innovative waterblocking technology

Eliminates the need for traditional flooding compound and provides efficient and craft-friendly cable preparation

### Medium-density polyethylene jacket

Makes cable rugged and durable while being flexible and easy to strip

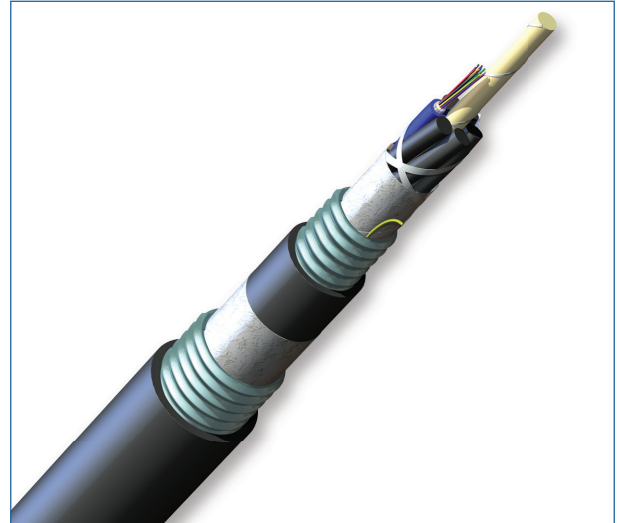
### Exceeds the RDUP requirements for mid-span buffer tube slack storage

Provides flexibility for mid-span access applications

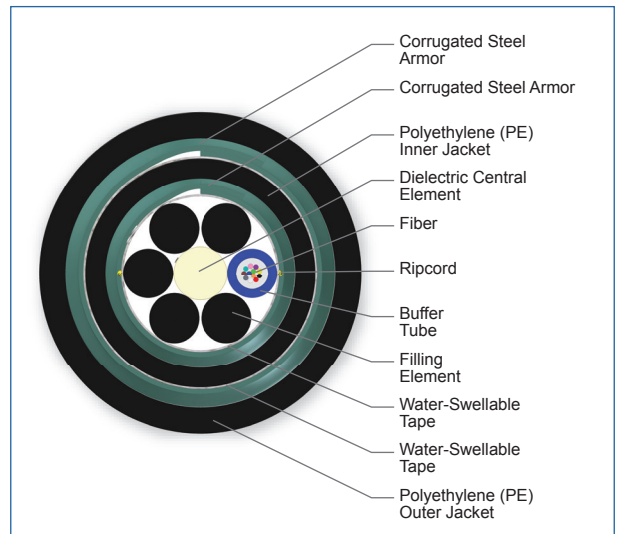
## Standards

<b>Approvals and Listings</b>	USDA Rural Development Programs
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<b>Design and Test Criteria</b>	Telcordia GR-20, ICEA-640
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Part Number: 012TUD-T4131A20



Cross Section of Part Number: 012TUD-T4131A20

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## Specifications

### General Specifications

Environment	Outdoor
Application	Direct Buried
Cable Type	Loose Tube
Product Type	Armored
Fiber Category	50 µm MM (OM2)

### 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	12
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	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Tape	Water-swellaable
Number of Filling Elements	5
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellaable
Number of Ripcords	4
Tensile Strength Elements and/or Armoring - Layer 2	Corrugated steel tape armor
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

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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	255 kg/km (171 lb/1000 ft)
Nominal Outer Diameter	16.1 mm (0.63 in)
Min. Bend Radius Installation	242 mm (9.5 in)
Min. Bend Radius Operation	161 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 Core Diameter	50 µm
Fiber Category	OM2
Fiber Code	T
Performance Option Code	31
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	750 m / 500 m
Serial 10 Gigabit Ethernet	150 m / -
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -

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	012TUD-T4131A20
Product Description	ALTOS® Lite™ Loose Tube, Gel-Filled, Double-Jacket, Double-Armored Cable, 12 F, 50 µm multimode (OM2)
EAN Code	4056418161570

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## *Notes*



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