

# ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable

36 F, 62.5 μm multimode (OM1)

CORNING

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**

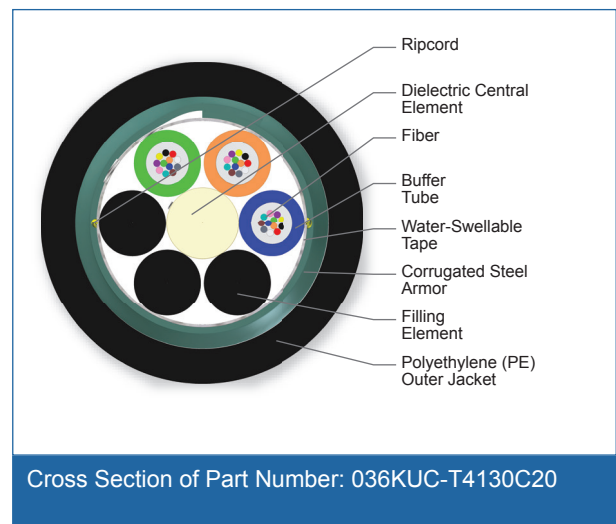
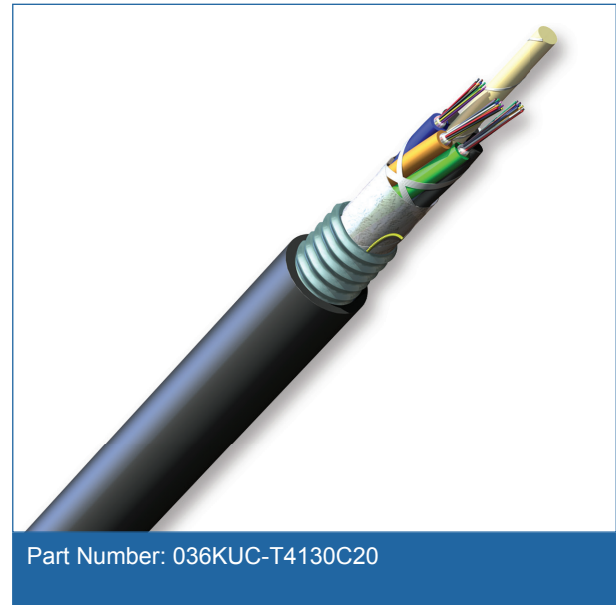
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

## Standards

<b>Approvals and Listings</b>	USDA Rural Development Programs
<b>Common Installations</b>	Designed for Direct-Buried and Aerial Applications
<b>Design and Test Criteria</b>	Telcordia GR-20, ICEA-640

## Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Direct Buried, Duct
Cable Type	Loose Tube



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## General Specifications

Product Type	Armored
Fiber Category	62.5 µm MM (OM1)

## 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	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
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Number of Ripcords	3
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

## Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	136 kg/km (91 lb/1000 ft)
Nominal Outer Diameter	12.1 mm (0.48 in)
Min. Bend Radius Installation	182 mm (7.1 in)
Min. Bend Radius Operation	121 mm (4.8 in)

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## 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	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -

Notes: 1) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

Part Number	036KUC-T4130C20
Product Description	ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled Single-Jacket, Single-Armored Cable, 36 F, 62.5 µm multimode (OM1)
EAN Code	4056418160399



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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