

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

216 F, 62.5 μm multimode (OM1)

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Corning ALTOS® Lite™ gel-free 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

**Gel-free waterblocking technology**  
Craft-friendly cable preparation

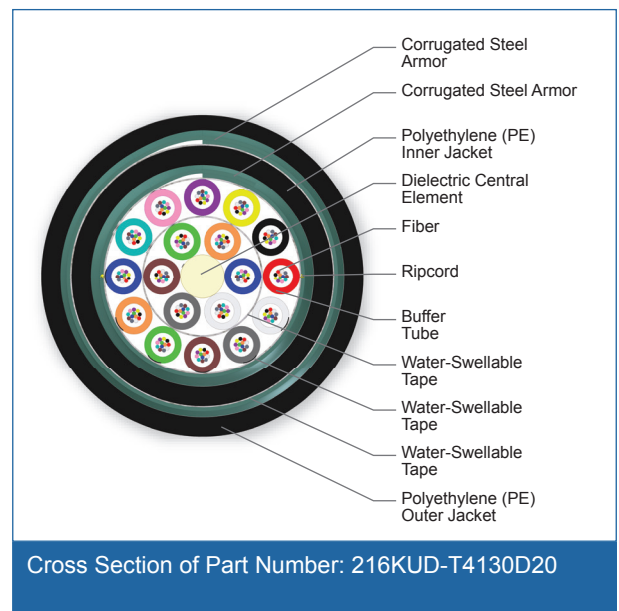
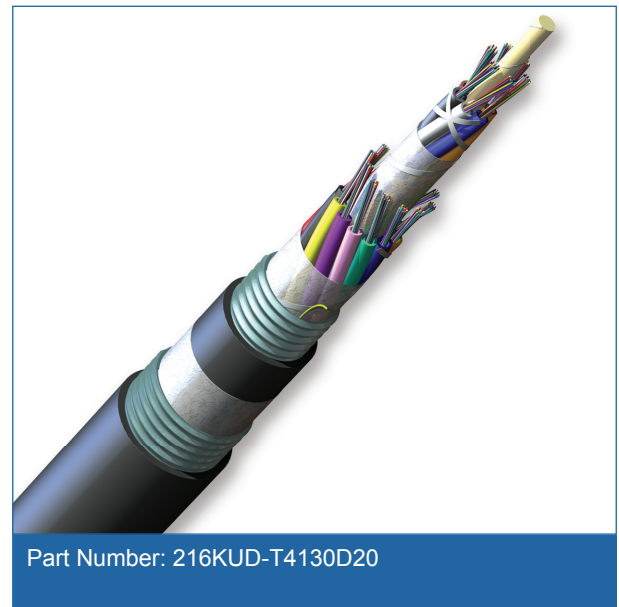
**Medium-density polyethylene jacket**  
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

**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**     ANSI/ICEA S-87-640



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## Specifications

General Specifications	
Environment	Outdoor
Application	Direct Buried
Cable Type	Loose Tube
Product Type	Armored
Fiber Category	62.5 µm MM (OM1)

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	216
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	18
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown, Slate, White
Buffer Tube Diameter	2.5 mm (0.1 in)
Tape	Water-swellable
Buffer Tube Color Coding, Layer 2	Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*
Tape, Layer 2	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 3	Water-swellable
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
Maximum Fibers per Tube	12

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

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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	398 kg/km (267 lb/1000 ft)
Nominal Outer Diameter	21.8 mm (0.86 in)
Min. Bend Radius Installation	327 mm (12.9 in)
Min. Bend Radius Operation	218 mm (8.6 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	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	216KUD-T4130D20
Product Description	ALTOS® Lite™ Loose Tube, Gel-Free, Double-Jacket, Double-Armored Cable, 216 F, 62.5 µm multimode (OM1)

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The CORNING logo is displayed in white, uppercase letters within a solid blue square.

## Notes



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