

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

192 F, 50 µm multimode (OM2)

CORNING

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 ap-
plications

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

Gel-free waterblocking technology
Craft-friendly cable preparation

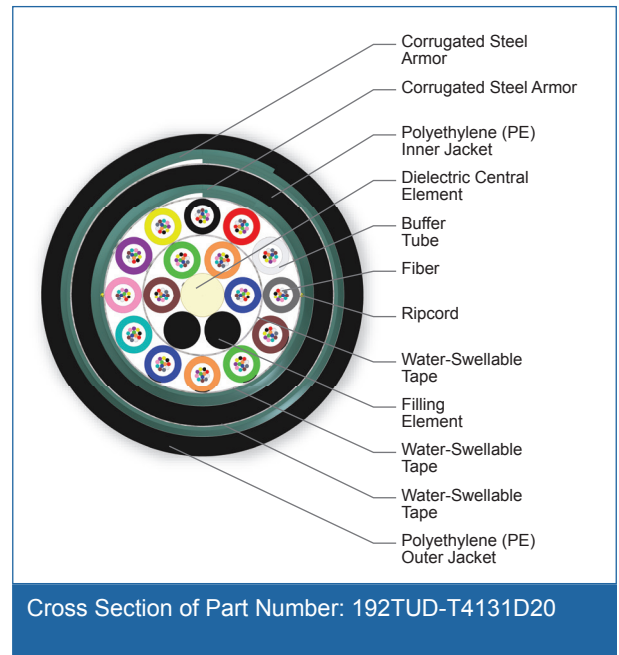
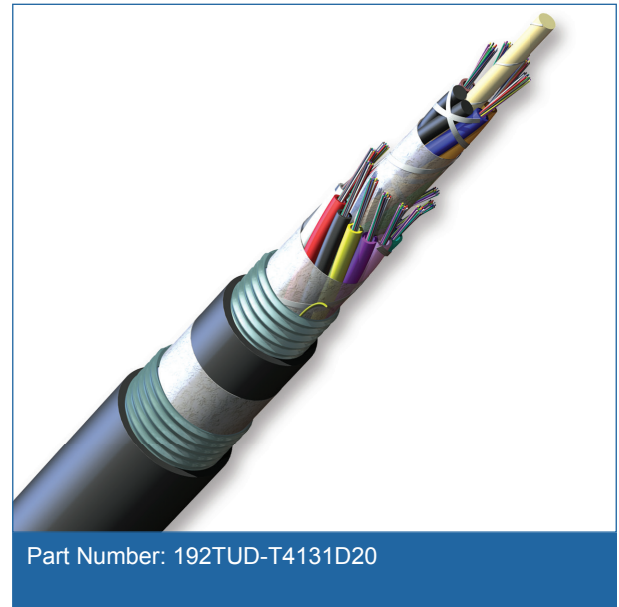
Medium-density polyethylene jacket
Rugged, durable and easy to strip (while providing supe-
rior protection against UV radiation, fungus, abrasion and
other environmental factors)

**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	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	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)
Tape	Water-swellable
Buffer Tube Color Coding, Layer 2	Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*
Number of Filling Elements	2
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	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.

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Ordering Information

Part Number	192TUD-T4131D20
Product Description	ALTOS® Lite™ Loose Tube, Gel-Free, Double-Jacket, Double-Armored Cable, 192 F, 50 µm multimode (OM2)



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