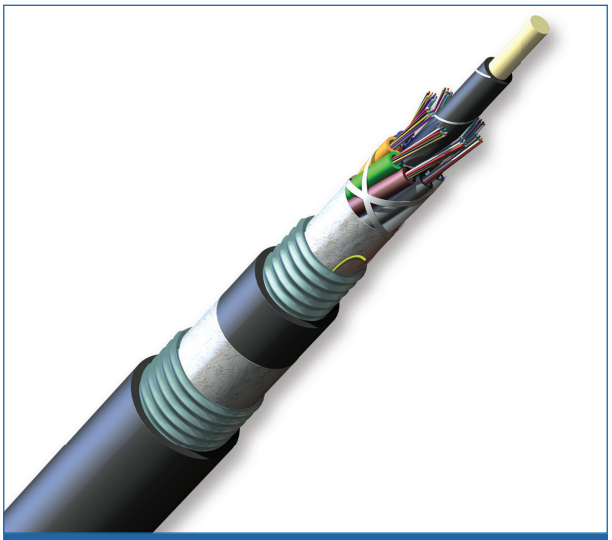
ALTOS® Lite™ Loose Tube, Gel-Free, Double-Jacket, Double-Armored Cable

96 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.



Part Number: 096TUD-T4131D20

Features and Benefits

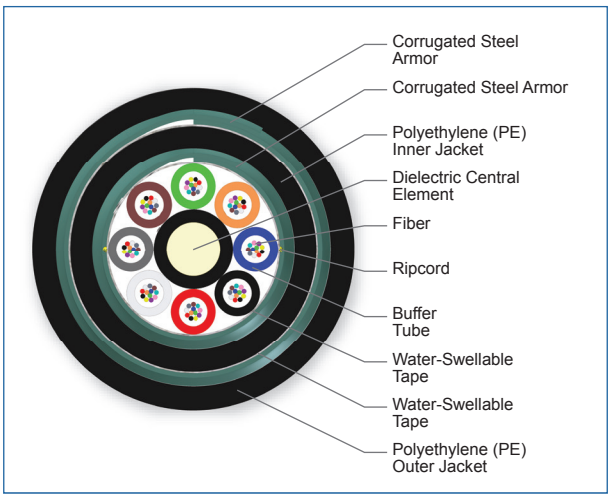
Two jacket layers and two steel tape armor layers
Provides superior rodent resistance for direct-buried applications

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



Cross Section of Part Number: 096TUD-T4131D20

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	96
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	8
Number of Active Tubes	8
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black
Buffer Tube Diameter	2.5 mm (0.1 in)
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	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

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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	297 kg/km (199 lb/1000 ft)
Nominal Outer Diameter	17.8 mm (0.70 in)
Min. Bend Radius Installation	267 mm (10.5 in)
Min. Bend Radius Operation	178 mm (7.0 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

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	096TUD-T4131D20
Product Description	ALTOS® Lite™ Loose Tube, Gel-Free, Double-Jacket, Double-Armored Cable, 96 F, 50 µm multimode (OM2)

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Notes

RoHS COMPLIANT

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