

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

192 fibres, 50 µm multimode (OM2)

CORNING

Corning ALTOS® Lite gel-free double-jacket, double-armoured 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 fibre.

Features and Benefits

Two jacket layers and two steel tape armour 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

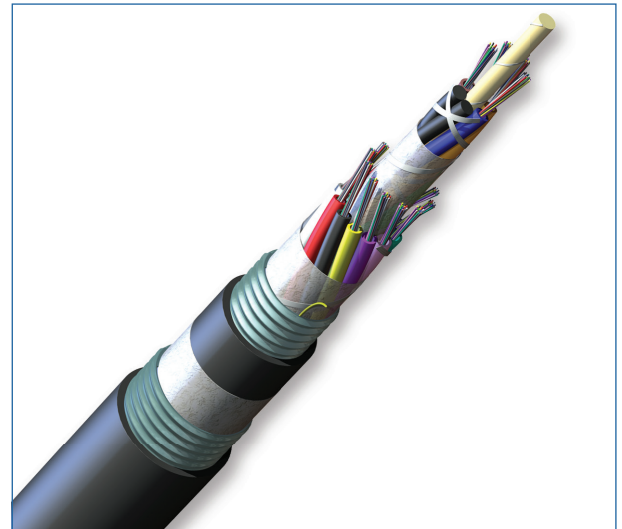
Exceeds the RDUP requirements for mid-span buffer tube slack storage

Provides flexibility for mid-span access applications

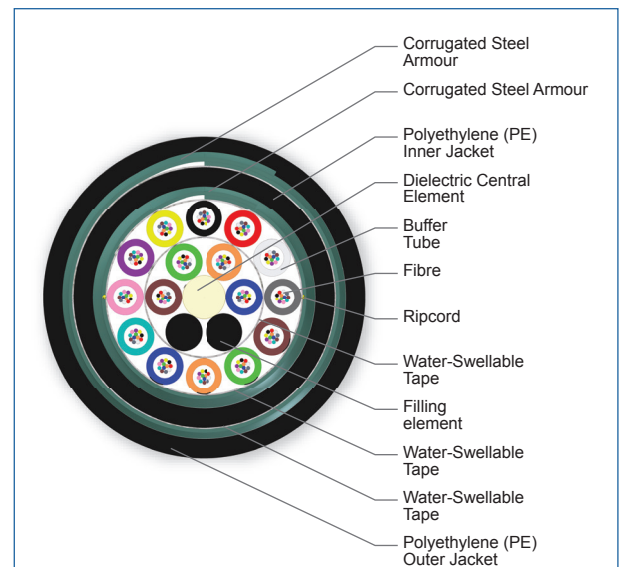
Standards

Approvals and Listings	USDA Rural Development Programs
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Design And Test Criteria	ANSI/ICEA S-87-640
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Part Number: 192TUD-T4131D20



Cross Section of Order Number: 192TUD-T4131D20

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Specifications

General Specifications

Environment	Outdoor
Application	Direct Buried
Cable type	Loose Tube
Product type	Armoured
Fibre Category	50 µm MM (OM2)

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation and assembly	-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
Fibre Count	192
Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Fibres per tube	12
Number of Tube Positions	18
Number of Active Tubes	16
Buffer tube colour coding, Layer 1	Blue, Orange, Green, Brown
Buffer tube diameter	2.5 mm (0.1 in)
Tape	Water-swellaable
Buffer tube colour coding, Layer 2	Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise, Blue*, Orange*, Green*, Brown*
Number of filling elements	2
Tape, Layer 2	Water-swellaable
Tensile Strength Elements and/or Armouring - Layer 1	Corrugated steel tape armour
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 3	Water-swellaable
Number of ripcords	4
Tensile strength elements and/or armouring - Layer 2	Corrugated steel tape armour
Outer jacket material	Polyethylene (PE)
Outer jacket colour	Black
Maximum Fibres 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 colours

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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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Fibre Specifications

Optical Characteristics (cabled)

Fibre core diameter	50 µm
Fibre Category	OM2
Fibre 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 fibre 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 fibres 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-Armoured Cable, 192 fibres, 50 µm multimode (OM2)
EAN Code	4056418528748



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

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