

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

48 F, 50 µm multimode (OM2)

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Corning ALTOS® gel-free double-jacket, dielectric cables are designed for duct and aerial (lashed) installation. The double-jacket construction adds a layer of protection for harsh environments. The loose tube cable design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Two jacket layers

Provides extra protection in harsh environments

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

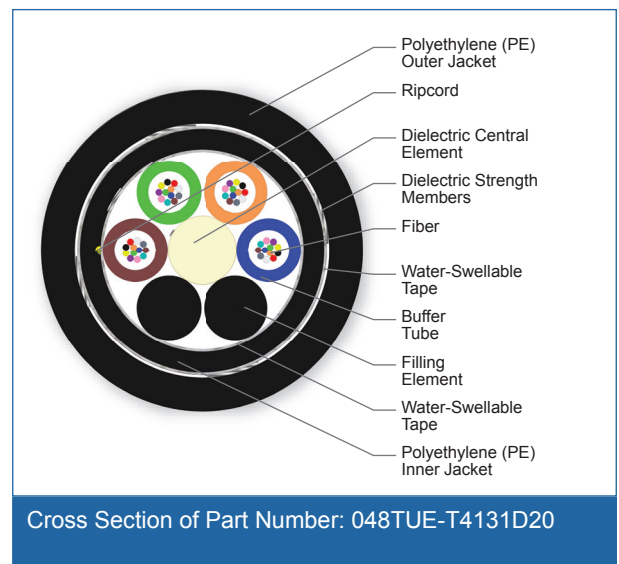
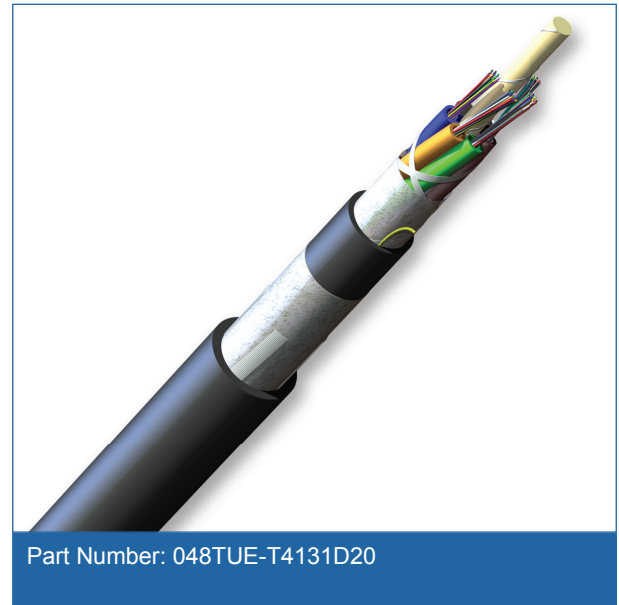
Standards

Approvals and Listings

RDUP (RUS) Listed
Material acceptability

Design and Test Criteria

ANSI/ICEA S-87-640



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Specifications

General Specifications

Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
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	48
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	4
Buffer Tube Color Coding	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellaable
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellaable
Number of Ripcords	1
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
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	107 kg/km (72 lb/1000 ft)
Nominal Outer Diameter	12.5 mm (0.49 in)
Min. Bend Radius Installation	188 mm (7.4 in)
Min. Bend Radius Operation	125 mm (4.9 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.

Ordering Information

Part Number	048TUE-T4131D20
Product Description	ALTOS® Loose Tube, Gel-Free, Double-Jacket Cable, 48 F, 50 µm multimode (OM2)
EAN Code	4056418143064

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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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Notes



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