

ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cables with FastAccess® Technology 12 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Part Number:
012ZUC-T4F22D20

Corning ALTOS® Lite gel-free, single-jacket, single-armored cables with FastAccess® technology are designed for direct-buried installations. The innovative FastAccess technology feature combined with the gel-free loose tube design simplifies removal of the cable jacket and accessing the buffer tubes. The gel-free design means the cables are fully waterblocked using craft-friendly water-swellable materials which makes cable access simple and require no clean up. The loose tube design uses Corning's SMF-28® Ultra fiber to provide reliable transmission parameters for a variety of voice, data, video and imaging applications. The flexible buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy midspan access. The single-armored construction provides additional crush and rodent protection. These cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

Features and Benefits

ALTOS® Lite FastAccess® Technology

Corning's ALTOS Lite FastAccess Technology refers to the combination of a Corning FastAccess Technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and waterblocking tapes and up to a 60 percent improvement in cable access time. These technologies also reduce the overall risk of inadvertent fiber damage by reducing the need for sharp cable access tools.

Stranded optical core

Elimination of overlapping yarn binders around stranded tubes to reduce end access time

Fully waterblocked loose tube all-dielectric gel-free design

Simple access and no clean up

Single-armored construction

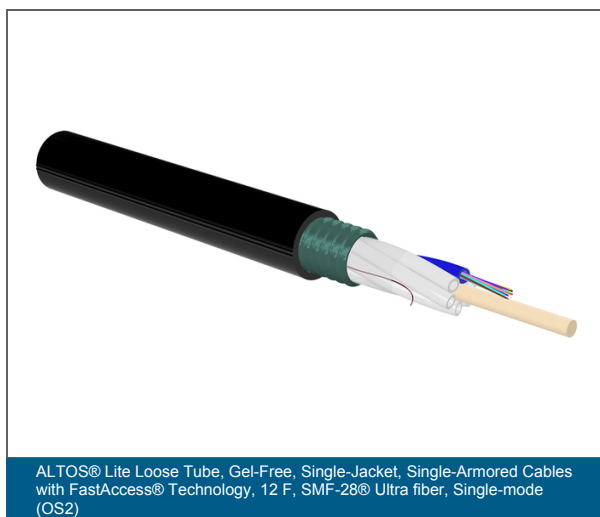
Provides additional crush and rodent protection

Polyethylene jacket

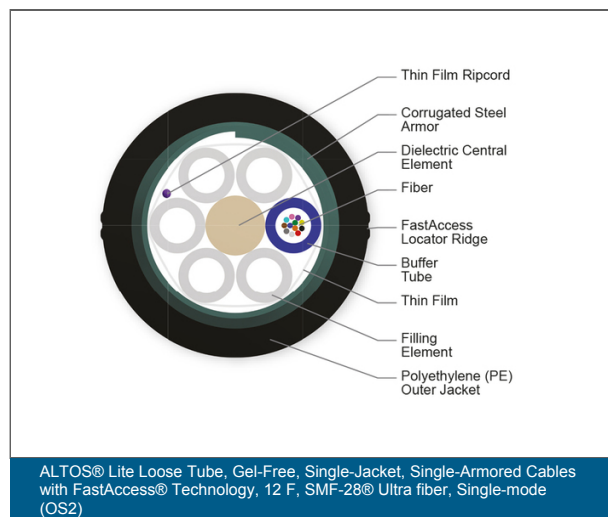
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

Available with Corning's SMF-28® Ultra fiber

ITU-T G.652 D and ITU-T G.657 A1 compliant fiber ready for any application



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Specifications

General Specifications

Cable Type	Loose Tube
Environment	Outdoor
Product Type	Interlocking Armor
Fiber Category	Single-mode (OS2)
Application	Aerial, Direct Buried, Duct
Cable geometry	Round

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Common Installations	Outdoor lashed aerial, duct and direct-buried, indoor when installed according to National Electrical Code® (NEC®) Article 770
Design and Test Criteria	ANSI/ICEA S-87-640

Environmental Conditions

Notes	Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.
Temperature Range, Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Temperature Range, Operation	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Central Element	Dielectric
Fiber Count	12
Number of Ripcords	1
Outer Jacket Color	Black

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Cable Design

Outer Jacket Material	Polyethylene (PE)
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Buffer Tube Color	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	1
Number of Filling Elements	5
Number of Tube Positions	6
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
SAP Powder	Water-swellaable
Color Code Standards	Telcordia

Mechanical Specifications

Max. Tensile Strength, Long-Term	890 N (200.08 lbf)
Max. Tensile Strength, Short-Term	2700 N (606.98 lbf)
Nominal Outer Diameter	11.7 mm (0.46 in)
Min. Bend Diameter Installation	352 mm (13.86 in)
Min. Bend Diameter Operation	234 mm (9.21 in)

Optical Characteristics

Fiber Code	Z
Performance Option Code	22
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.22 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1

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Dimensions	
Cable Weight	118 kg/km (79.29 lb/1000 ft)



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