

# 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-swappable 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

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## Specifications

Mechanical Specifications	
Max. Tensile Strength, Long-Term	890 N
Max. Tensile Strength, Short-Term	2700 N
Min. Bend Radius Installation	176 mm (6.93 in)
Min. Bend Radius Operation	117 mm (4.61 in)
Nominal Outer Diameter	11.7 mm (0.46 in )

Cable Design	
Central Element	Dielectric
Fiber Count	12
Buffer Tube Color Coding	Blue
Number of Ripcords	2
Outer Jacket Color	Black
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

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## Cable Design

Fibers per Tube	12
SAP Powder	Water-swellable

## Environmental Conditions

Temperature Range, Installation	-30 °C - 70 °C (-22 °F - 158 °F)
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Operation	-40 °C - 70 °C (-40 °F - 158 °F)

## General Specifications

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

## Ordering Information

Weight	116 kg/km
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## 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

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## Standards

Design and Test Criteria     ANSI/ICEA S-87-640

## Optical Characteristics

Fiber Code	Z
Fiber Name	SMF-28® Ultra fiber
Fiber Type	Single-mode
Performance Option Code	22
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.22 dB/km
Typical Attenuation	0.32 / 0.32 / 0.18
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D/G.657.A1



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