

# ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable 96 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

**Part Number:**  
**096ZUC-T4122D20**

Corning ALTOS® Lite gel-free, single-jacket, single-armored cables are designed for campus backbones in direct-buried installations. The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. These cables also provide high-fiber density within a given cable diameter while allowing flexibility to suit many system configurations. The single armored construction provides additional crush and rodent protection with a high-strength ripcord under the armor for easy stripping. Gel-free means the cables are fully waterblocked using craft-friendly, water-swallowable materials which make cable access simple and require no clean up. The flexible, craft-friendly 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 mid-span access. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### **Gel-free waterblocking technology**

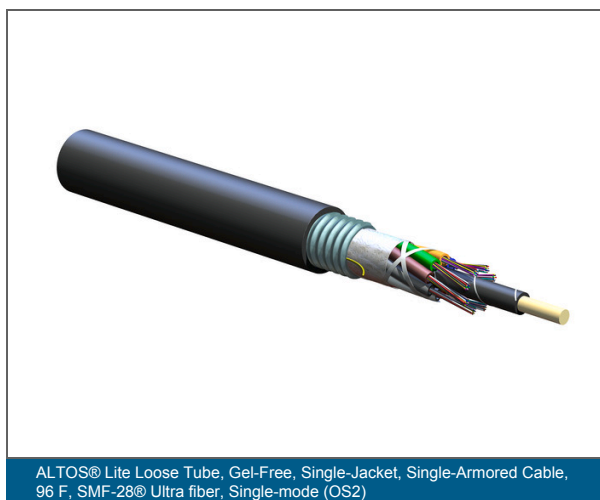
Craft-friendly cable preparation

### **Polyethylene jacket**

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

### **Corrugated steel tape armor**

Provides rodent resistance for direct-buried applications



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## Specifications

### General Specifications

Cable Type	Loose Tube
Environment	Outdoor
Product Type	Dielectric armor
Fiber Category	SMF-28® Ultra fiber
Application	Aerial, Direct Buried, Duct
Fiber Count	96
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

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 )
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.

### Cable Design

Central Element	Dielectric
Fiber Count	96
Number of Ripcords	2

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## Cable Design

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, Orange, Green, Brown, Slate, White, Red, Black
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	8
Number of Tube Positions	8
Tape	Water-swellable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
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	13.8 mm (0.54 in )
Min. Bend Diameter Installation	414 mm (16.3 in)
Min. Bend Diameter Operation	276 mm (10.87 in)

## 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

**ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket,  
Single-Armored Cable 96 F, SMF-28® Ultra fiber,  
Single-mode (OS2)**



Optical Characteristics	
Fiber Category	G.652.D/G.657.A1

Dimensions	
Cable Weight	162 kg/km (108.86 lb/1000 ft)



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