

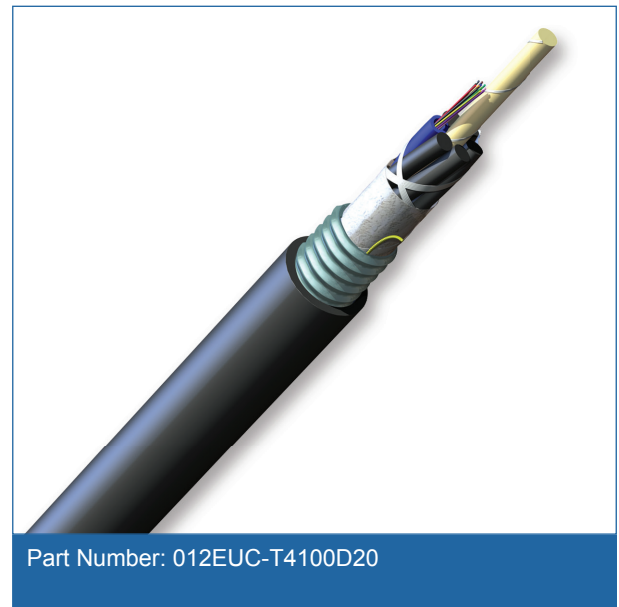
# ALTOS® Lite™ Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable

12 F, Single-mode (OS2)

CORNING

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-swellable 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

### Medium-density 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

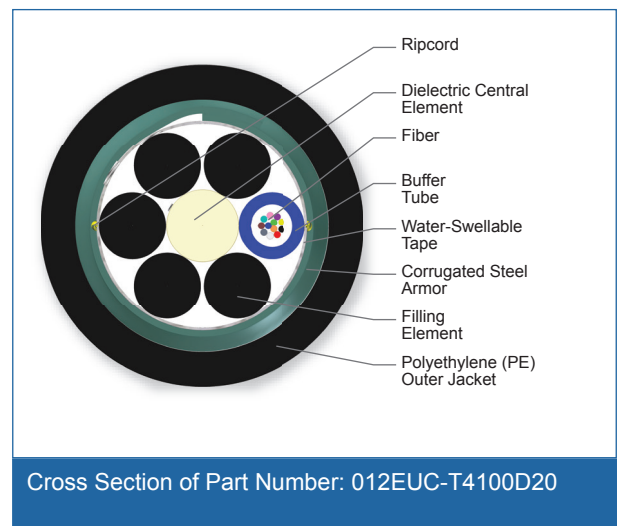
## Standards

### 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



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## Specifications

### General Specifications

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

### 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	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Maximum Fibers per Tube	12
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-swellaable
Number of Ripcords	2
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

### Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	129 kg/km (87 lb/1000 ft)

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## Mechanical Characteristics Cable

Nominal Outer Diameter	12.1 mm (0.48 in)
Min. Bend Radius Installation	182 mm (7.2 in)
Min. Bend Radius Operation	121 mm (4.8 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	00
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.35 dB/km / 0.35 dB/km / 0.25 dB/km

## Ordering Information

Part Number	012EUC-T4100D20
Product Description	ALTOS® Lite™ Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable, 12 F, Single-mode (OS2)
EAN Code	4056418185590



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