

# ALTOS® Loose Tube, Gel-Free Cable 288 F, Single-mode (OS2)



**Part Number:**  
**288EU4-T4100D20**

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials, which means cable access is simple and no clean up is required. 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. The all-dielectric cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

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

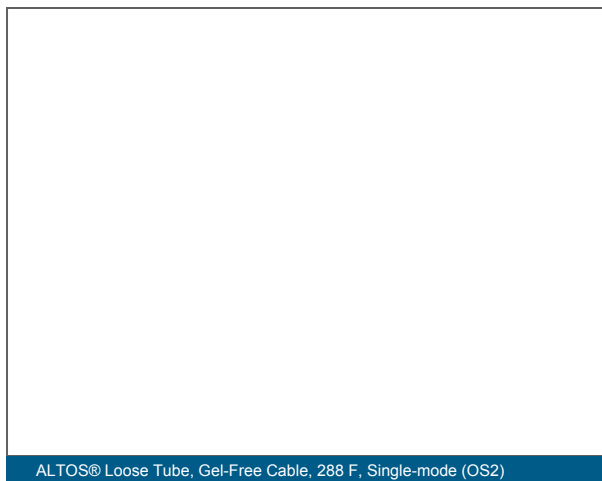
Craft-friendly cable preparation

### **Polyethylene jacket**

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

### **All-dielectric construction**

Requires no grounding or bonding



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## Specifications

### General Specifications

Environment	Outdoor
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	Single-mode (OS2)
Application	Aerial, Duct
Fiber Count	288

### Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Common Installations	Outdoor lashed aerial and duct, 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	288
Number of Ripcords	1
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow



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Cable Design	
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	24
Number of Tube Positions	24
Tape	Water-swellable
Tape, Layer 2	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	18.2 mm (0.72 in )
Min. Bend Diameter Installation	546 mm (21.5 in)
Min. Bend Diameter Operation	364 mm (14.33 in)

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

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Dimensions	
Cable Weight	196 kg/km (131.71 lb/1000 ft)



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