

# ALTOS® Loose Tube Outdoor Duct Cable LT 2.3 8x12 E9 SMF-28e+® ITU G652.D



**Part Number:**  
**096ER4-T3122A20**

Corning stranded loose tube cables are designed for outdoor use for campus, city and intercity backbones in duct installations.

The loose tube cable construction, by isolating the fibers from installations and environmental rigors, provides stable and highly reliable transmission parameters. The buffer tubes and fibers in each tube are color coded for quick and easy identification.

The SZ-stranded construction further reduces installation and environmental influences on the transmission parameters and allows mid-span access.

These cables are designed for installation in conduits, ducts and on cable racks.

## Features and Benefits

### All-dielectric construction

Requires no grounding or bonding

### UV- and microbe-resistant

Can be installed in ducts or conduits

### Waterblocking technology

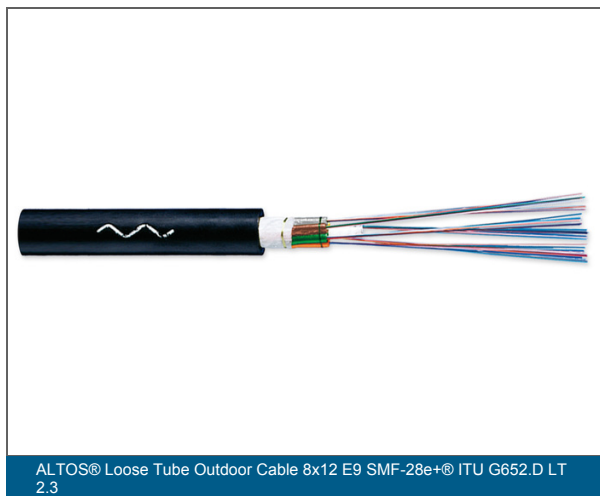
OSP (outdoor) applications

### Fibers/buffer tubes color coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

### Dry cable core by means of water swellable elements

Allows efficient and craft-friendly cable preparation in outdoor applications



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## Specifications

General Specifications	
Cable Type	Loose Tube
Environment	Outdoor
Product Type	Dielectric
Fiber Category	Single-mode (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)2Y
Application	Duct
Cable geometry	Round

Standards	
Fiber Standards	TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Waterblocking	IEC 60794-1-2 F5

Environmental Conditions	
Temperature Range, Installation	-5 °C to 50 °C
Temperature Range, Operation	-30 °C to 70 °C
Temperature Range, Storage	-40 °C to 70 °C

Cable Design	
Cable Marking	Meter - Handset - Sine - CORNING - Year -ALTOS (R) A-DQ(ZN)2Y 8X12 E9 LT 2.3
Central Element	Dielectric with Polyethylene coating
Fiber Count	96
Number of Ripcords	1
Outer Jacket Color	Black
Outer Jacket Material	Linear Low Density Polyethylene (LLDPE)

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Cable Design	
Outer Jacket Nominal Thickness	1.5 mm
Buffer Tube Color	Blue, Orange, Green, Brown, Slate, White, Red, Black
Buffer Tube Diameter	2.25 mm
Central Element Diameter	3.9 mm
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	
Crush Resistance	2000 N/10 cm
Max. Tensile Strength for Installation	2700 N
Min. Bend Radius Installation	210 mm
Min. Bend Radius Operation	180 mm
Nominal Outer Diameter	11.9 mm

Optical Characteristics	
Fiber Code	E
Performance Option Code	22
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	Single-mode (OS2)
Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D
Fiber Core Diameter	8.2 µm

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CORNING

## Optical Characteristics

Cladding diameter	125 µm
Coating diameter	242 µm
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]
Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 µm
Mode-Field Diameter at 1550 nm	10.4 µm
PMD Link Design Value	≤ 0.06 ps/√km
PMD maximum individual fiber	≤ 0.1 ps/√km

## Dimensions

Cable Weight	113 kg/km
Max. cable length per reel/drum	6000 m



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