

# ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.3 4x12 E9 SMF-28e+® ITU G652.D

CORNING

**Part Number:**  
**048ERG-T3122A20**

Corning glass-yarn armored 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 and ducts.

## Features and Benefits

### **Waterblocking technology**

Outside Plant (OSP) applications

### **All-dielectric cable construction**

Requires no grounding or bonding

### **UV and microbe resistant**

Can be installed in ducts

### **Dry cable core by means of water-swellable tape and elements**

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

### **Laminated glass yarns**

For improved rodent resistance

### **Fibres/buffer tubes colour coded to Telcordia-Bellcore**

Easy identification of the individual tubes and fibres

### **SZ-stranded, loose tube design**

Isolates fibres from installation and environmental rigors and facilitates mid-span access



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## Specifications

### General Specifications

Environment	Outdoor
Cable type	Loose tube
Product type	Dielectric armour
Fibre category	Single-mode (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)B2Y
Application	Duct

### Standards

Fibre Standards	TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2
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### Standards

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)B2Y 4X12 E9 LT 2.3
Central element	Dielectric
Fibre count	48
Buffer tube colour coding	Blue, orange, green, brown

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Cable Design	
Number of ripcords	1
Outer jacket colour	Black
Outer jacket material	Linear Low Density Polyethylene (LLDPE)
Outer jacket nominal thickness	1.5 mm
Tensile strength elements and/or armouring - Layer 1	Laminated glass yarn armour
Buffer tube colour	Blue, orange, green, brown
Buffer tube diameter	2.25 mm
Central element diameter	2.5 mm
Filling element colour	Natural
Number of active tubes	4
Number of filling elements	2
Number of tube positions	6
Tape	Water-swellable
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12

Mechanical Specifications	
Crush resistance	2000 N/10 cm
Min. bend radius installation	215 mm
Min. bend radius operation	160 mm
Nominal outer diameter	10.9 mm

Optical Characteristics	
Cable cutoff wavelength	1260 nm
Fibre code	E
Fibre name	E9/125 SMF28e+®
Fibre Type	Single-mode

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## Optical Characteristics

Fibre core diameter	8.2 µm
Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 gigabit ethernet	5000 MHz*km / - / -
Serial 10 gigabit ethernet	10000 MHz*km / - / 40000 MHz*km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fibre category	OS2

## Ordering Information

Product Number	048ERG-T3122A20
EAN Code	4042673399803
Weight	91 kg/km



Corning Optical Communications GmbH & Co. KG • Lelpziger Strasse 121 • 10117 Berlin, Germany  
+00 800 2675 4641 • FAX: +49 30 5303 2335 • [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

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