

# ALTOS® Loose Tube Steel Armour Outdoor Cable LT 2.3 3x12 E9 SMF-28e+® ITU G652.D, LLDPE

CORNING

**Part Number:**  
**036ERC-T3122A20**

Corning stranded loose tube cables with smooth steel tape armoring is designed for outdoor use for campus, city and intercity backbones in duct and direct burial 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 for direct burial.

## Features and Benefits

### **Waterblocking technology**

OSP (outdoor) applications

### **Corrugated steel armouring**

Rodent, mechanical protection and direct buried applications

### **UV- and microbe-resistant**

Can be installed in ducts or conduits

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

Allows efficient and craft-friendly cable preparation in outdoor applications

### **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	
Cable type	Loose tube
Environment	Outdoor
Product type	Corrugated steel armour
Fibre category	Single-mode (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)(SR)2Y
Application	Direct Buried, Duct
Cable geometry	Round

Standards	
Fibre 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

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

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	Metre - Handset - Sine - CORNING - Year -ALTOS (R) A-DQ(ZN)(SR)2Y 3X12 E9 LT 2.3
Central element	Dielectric

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Cable Design	
Fibre count	36
Number of ripcords	2
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	Corrugated steel tape armour
Buffer tube colour	Blue, orange, green
Buffer tube diameter	2.25 mm
Central element diameter	2.5 mm
Number of active tubes	3
Number of filling elements	3
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
Colour Code Standards	Telcordia

Mechanical Specifications	
Crush resistance	3000 N/10 cm
Max. tensile strength for installation	2700 N
Min. bend radius installation	230 mm
Min. bend radius operation	175 mm
Nominal outer diameter	11.6 mm

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

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## Optical Characteristics

Fibre Type	Single-mode
Performance option code	22
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

## Dimensions

Cable Weight	127 kg/km
Max. cable length per reel/drum	6000 m



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