

ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.3 8x12 E9 SMF-28e+® ITU G652.D, LLDPE

CORNING

Part Number:
096ERG-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

Cable type	Loose tube
Environment	Outdoor
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
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

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 8X12 E9 LT 2.3
Central element	Dielectric with Polyethylene coating
Fibre count	96
Number of ripcords	1
Outer jacket colour	Black
Outer jacket material	Linear Low Density Polyethylene (LLDPE)

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Cable Design

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, grey, 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
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	2000 N/10 cm
Max. tensile strength for installation	4000 N
Min. bend radius installation	245 mm
Min. bend radius operation	185 mm
Nominal outer diameter	12.1 mm

Optical Characteristics

Cable cutoff wavelength	1260 nm
Fibre code	E
Fibre name	Single-mode (OS2)
Fibre Type	Single-mode (OS2) / 250 µm
Fibre compliance	ITU-T G.652.D
Performance option code	22
Fibre core diameter	8.2 µm
Cladding diameter	125 µm

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Optical Characteristics

Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Mode-Field Diameter at 1310 nm	9.2 µm
Mode-Field Diameter at 1550 nm	10.4 µm
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	≤ 0.06 ps/(nm*km)
PMD (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/(nm*km)
Coating diameter	242 µm
Fibre category	OS2
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]

Dimensions

Cable Weight	120 kg/km
Max. cable length per reel/drum	6000 m



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: • www.corning.com/opcomm/emea

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