

ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.3 16x12 E9 SMF-28e+® ITU G652.D



Part Number:
192ERG-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



ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.3 16x12 E9 SMF-28e+® ITU G652.D

CORNING

Specifications

General Specifications	
Installation Methods	Duct
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
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 16X12 E9 LT 2.3
Central element	GRP
Fibre count	192
Number of ripcords	1
Buffer tube colour coding, layer 1	Blue, orange, green, brown
Outer jacket colour	Black

ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.3 16x12 E9 SMF-28e+® ITU G652.D

CORNING

Cable Design

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 diameter	2.25 mm
Central element diameter	2.5 mm
Filling element colour	Natural
Number of active tubes	16
Number of filling elements	2
Number of tube positions	18
Tape	Water-swellable
Tape, layer 1	Water-swellable
Tape, layer 2	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
Max. tensile strength for installation	4000 N
Min. bend radius installation	305 mm
Min. bend radius operation	230 mm
Nominal outer diameter	15.5 mm

Optical Characteristics

Fibre code	E
Performance option code	22
Fibre category	OS2
Fibre Type	Single-mode (OS2) / 250 µm
Fibre name	Single-mode (OS2)

ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.3 16x12 E9 SMF-28e+® ITU G652.D

CORNING

Optical Characteristics

Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fibre compliance	ITU-T G.652.D
Fibre core diameter	8.2 µm
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 (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/√km

Dimensions

Cable Weight	175 kg/km
Max. cable length per reel/drum	4000 m



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
00 800 2676 4641 • FAX: • www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2026 Corning Optical Communications. All rights reserved.