ALTOS® Loose Tube Outdoor Duct Cable LT 2.3 1x12 E9 SMF-28e+® ITU G652.D

Part Number:
012ER4-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

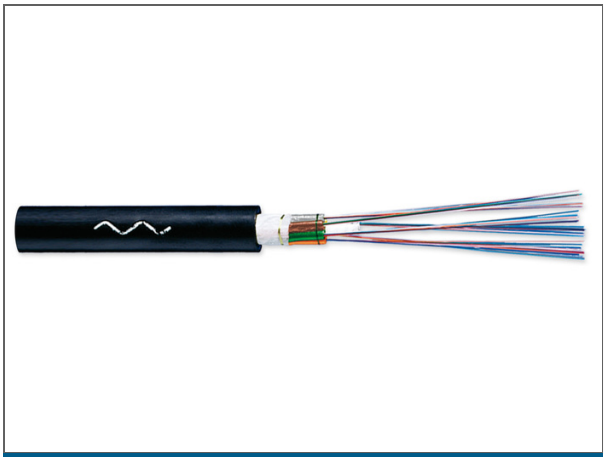
All-dielectric cable construction
Requires no grounding or bonding

UV- and microbe-resistant
Can be installed in ducts or conduits

Waterblocking technology
OSP (outdoor) applications

Fibres/buffer tubes colour 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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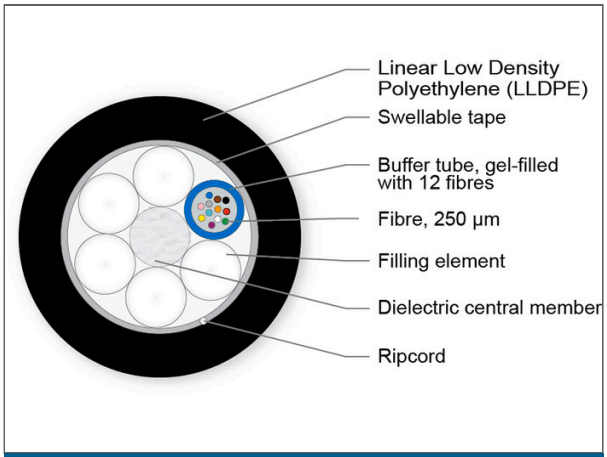

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Specifications

General Specifications	
Installation Methods	Duct
Cable type	Loose tube
Environment	Outdoor
Product type	Dielectric
Fibre category	Single-mode (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)2Y
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)2Y 1X12 E9 LT 2.3
Central element	Dielectric
Fibre count	12
Number of ripcords	1
Outer jacket colour	Black
Outer jacket material	Linear Low Density Polyethylene (LLDPE)

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CORNING

Cable Design	
Outer jacket nominal thickness	1.5 mm
Buffer tube colour	Blue
Buffer tube diameter	2.25 mm
Central element diameter	2.5 mm
Number of active tubes	1
Number of filling elements	5
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	2000 N/10 cm
Max. tensile strength for installation	2700 N
Min. bend radius installation	185 mm
Min. bend radius operation	155 mm
Nominal outer diameter	10.3 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)
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

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CORNING

Optical Characteristics	
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	79 kg/km
Max. cable length per reel/drum	6000 m

RoHS COMPLIANT

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