

ALTOS® Loose Tube Outdoor Duct Cable LT 2.0 HDPE 1x12 E9 SMF-28e+® ITU G652.D

CORNING

Part Number:
012EP4-T3122P20

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 2.0 mm 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 slim and lightweight cables are designed with a 1.1 mm HDPE outer jacket for easy installation in conduits, ducts and on cable racks.

Features and Benefits

All-dielectric construction

Requires no grounding or bonding

UV- and microbe-resistant

Can be installed in ducts or conduits

Waterblocking technology

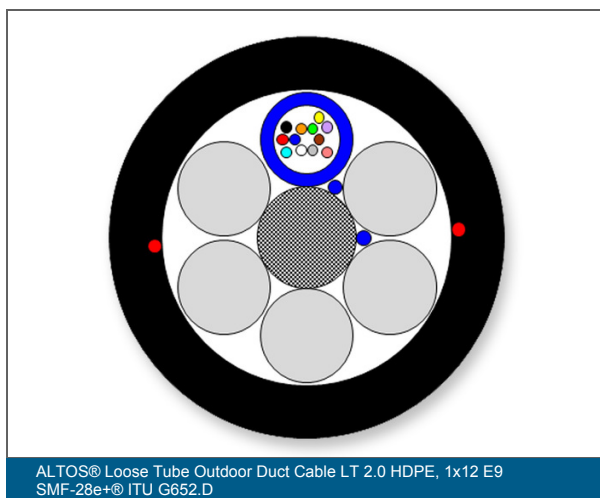
OSP (outdoor) applications

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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Specifications

General Specifications

Cable Type	Loose Tube
Environment	Outdoor
Product Type	Dielectric
Fiber Category	ITU-TG.652.D (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)2Y
Application	Duct
Cable geometry	Round

Standards

Fiber 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 (23 °F to 122 °F)
Temperature Range, Operation	-30 °C to 70 °C (-22 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Cable Marking	Meter - Handset - Sine - CORNING - Year - ALTOS (R) A-DQ(ZN)2Y 1X12 E9 LT 2.0
Central Element	GRP
Fiber Count	12
Number of Ripcords	2
Buffer Tube Color Coding, Layer 1	Blue
Outer Jacket Color	Black

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Cable Design

Outer Jacket Material	High Density Polyethylene (HDPE)
Outer Jacket Nominal Thickness	1.1 mm
Buffer Tube Diameter	2 mm
Central Element Diameter	2.1 mm
Number of Active Tubes	1
Number of Filling Elements	5
Number of Tube Positions	6
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White
Fibers per Tube	12
Color Code Standards	Telcordia
Buffer Tube Color Coding, Layer 2	Blue

Mechanical Specifications

Crush Resistance	1500 N/10 cm
Max. Tensile Strength for Installation	1500 N
Min. Bend Radius Installation	166 mm
Min. Bend Radius Operation	83 mm
Nominal Outer Diameter	8.3 mm

Optical Characteristics

Fiber Code	E
Performance Option Code	22
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber 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
Fiber Compliance	ITU-T G.652.D

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Optical Characteristics

Fiber 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/(nm*km)
PMD maximum individual fiber	≤ 0.1 ps/(nm*km)

Dimensions

Cable Weight	54 kg/km
Max. cable length per reel/drum	6000 m



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