

ALTOS® Loose Tube Steel Armour Outdoor Cable LT 2.0 HDPE 4x12 E9 SMF-28e+® ITU G652.D

CORNING

Part Number:
048EPC-T3122P20

Corning stranded loose tube cables with corrugated steel 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 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 1.3 mm HDPE outer jacket for easy installation in conduits, ducts, on cable racks and for direct burial.

Features and Benefits

1.3 mm HDPE jacket thickness

Smaller cable diameter with rugged design for easy installation in smaller ducts

Corrugated steel armoring

Rodent, mechanical protection and direct buried applications

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

Mechanical Specifications

Crush resistance	2500 N/10 cm
Min. bend radius installation	200 mm
Min. bend radius operation	100 mm
Nominal outer diameter	10 mm

Cable Design

Central element	GRP
Fibre count	48
Number of ripcords	2
Buffer tube colour coding, layer 1	Blue, orange, green, brown
Outer jacket colour	Black
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket minimum thickness	1.3 mm
Buffer tube colour	Blue, orange, green, brown
Buffer tube diameter	2 mm
Central element diameter	2.1 mm
Number of active tubes	4
Number of filling elements	2
Number of tube positions	6
Tape, layer 1	Water-swellaable
Tensile strength elements and/or armouring	Corrugated steel tape armour
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12

Environmental Conditions

Temperature range, installation	-5 °C to 70 °C
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Environmental Conditions

Temperature range, operation	-30 °C to 70 °C
Temperature range, storage	-40 °C to 70 °C

General Specifications

Environment	Outdoor
Cable type	Loose tube
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	Duct , Direct Buried

Ordering Information

Weight	104 kg/km
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Standards

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
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Optical Characteristics

Cable cutoff wavelength	1260 nm
Fibre code	E
Fibre name	E9/125 SMF28e+®
Fibre Type	Single-mode

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Optical Characteristics

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



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