

ALTOS® Loose Tube Dielectric Armour Outdoor Cable LT 2.0 HDPE

1x12 E9 SMF-28e+® ITU G652.D LT 2.3

CORNING

Corning glass-yarn armoured 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 fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The buffer tubes and fibres in each tube are colour 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 be buried directly in the ground.

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

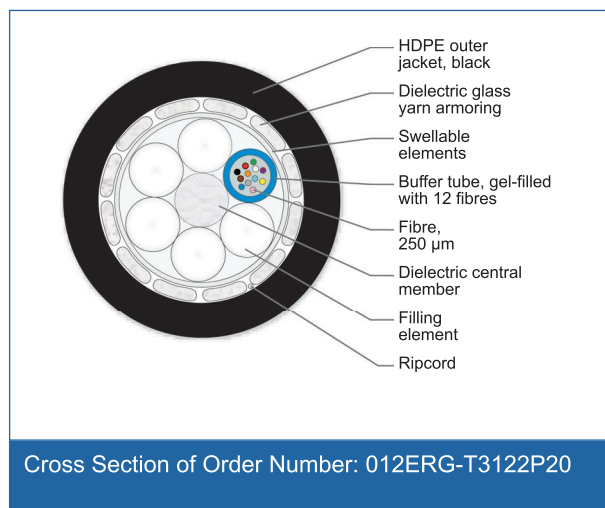
For improved rodent resistance

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



Standards

Waterblocking IEC 60794-1-2 F5

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Specifications

General Specifications	
Environment	Outdoor
Application	Duct, Direct Buried
Cable type	Loose Tube
Product type	Dielectric armour
Fibre category	SM (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)B2Y
Previous coding following DIN VDE 0888-3	A-DQ(BN)2Y

Temperature Range	
Installation and assembly	-10 °C to 50 °C
Operation	-30 °C to 60 °C
Storage	-40 °C to 70 °C

Cable Design	
Central element	Dielectric
Central element diameter	2.5 mm
Fibre count	12
Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Fibres per tube	12
Number of tube positions	6
Number of active tubes	1
Buffer tube colour coding	Blue
Buffer tube diameter	2.25 mm
Number of filling elements	5
Filling element colour	Natural
Tape	Water-swellable
Number of ripcords	1
Tensile Strength Elements and/or Armouring - Layer 1	Laminated glass yarn armour
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket colour	Black
Outer jacket nominal thickness	1.5 mm
Cable marking	Metre - Handset - Sine - CORNING - Year - ALTOS (R) A-DQ(ZN)B2Y 1X12 E9 LT 2.3

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Mechanical Characteristics Cable

Nominal Outer Diameter	10.9 mm
Weight	91 kg/km
Min. Bend Radius Installation	215 mm
Min. Bend Radius Operation	160 mm
Max. tensile strength for installation	4000 N
Crush resistance (reversible)	2000 N/10 cm

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fibre Specifications

Optical Characteristics (cabled)

Fibre name	E9/125 SMF28e+®
Fibre core diameter	8.2 µm
Fibre category	OS2
Fibre code	E
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 gigabit ethernet	5000 m / - / -
Serial 10 gigabit ethernet	10000 m / - / 40000 m
Cable cutoff wavelength	1260 nm
Standards in compliance	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

2) Improved attenuation and bandwidth options available

3) Bend-insensitive single-mode fibres available on request.

4) Contact a Corning Customer Care Representative for additional information

Ordering Information

Part Number	012ERG-T3122P20
Product Description	ALTOS® Loose Tube Dielectric Armour Outdoor Cable 1x12 E9 SMF-28e+® ITU G652.D LT 2.3

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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

Shipping Information

Maximum delivery length	6,000 m
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