

Loose Tube Steel Armour Indoor/Outdoor Cable 1x12 E9 SMF-28e+® ITU G652.D LT 2.3

CORNING

Part Number:
012ERY-T3122H2G

Corning MPC (multipurpose cable) stranded loose tube cables are flame retardant, indoor/outdoor and designed for interbuilding/intrabuilding backbones in duct and other riser applications.

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, direct burial and in-house.

Features and Benefits

Waterblocking technology

OSP (outdoor) applications

Corrugated steel armouring

Rodent, mechanical protection and direct buried 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 or indoor/outdoor applications

SZ-stranded, loose tube design

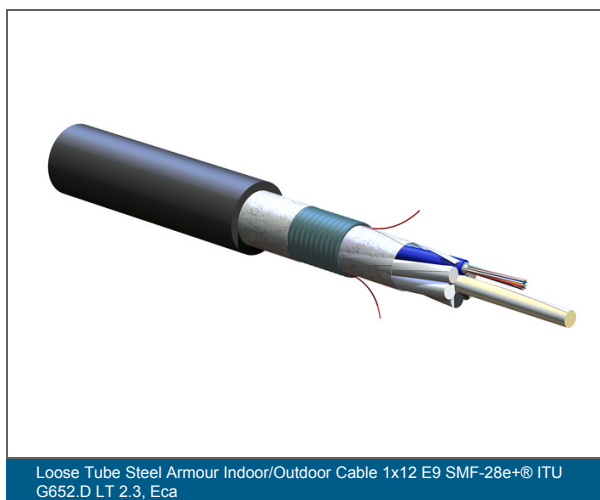
Isolates fibres from installation and environmental rigors and facilitates mid-span access

UV and microbe resistant

Can be installed in ducts or conduits and direct buried

Flame retardant

LSZH/FRNC



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Specifications

General Specifications

Environment	Indoor/Outdoor
Cable type	Loose tube
Product type	Corrugated steel armour
Fibre category	Single-mode (OS2)
Flame rating	LSZH/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)(SR)H
Application	Direct Buried, Duct, General building applications
Fibre count	12

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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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Design And Test Criteria	Repeated bending test according to IEC 60794-1-21 Method E6 (max. number of cycles: 15)
Waterblocking	IEC 60794-1-22 Method F5B
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable)
Reaction to fire requirements	Reaction to fire according to EN 50575 and EN 13501-6
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen according to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2
Fibre Standards	TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2
Reaction to fire	Eca

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Environmental Conditions

Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-30 °C to 75 °C
Temperature range, storage	-40 °C to 75 °C
Temperature range, storage (stored on drum with original packing)	-40 °C to 75 °C

Cable Design

Cable marking	Metre - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 12 E9 LT 2.3 LSZH(TM)/FRNC
Central element	Dielectric
Fibre count	12
Number of ripcords	2
Outer jacket colour	Black
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket nominal thickness	1.5 mm
Buffer tube colour	Blue
Buffer tube diameter	2.25 mm
Buffer tube water blocking	Thixotropic gel
Central element diameter	2.5 mm
Number of active tubes	1
Number of filling elements	5
Number of tube positions	6
Tape	Water-swellaable
Tensile strength elements and/or armouring	Corrugated steel tape armour with water-swellaable tape
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Color Code Standards	Telcordia

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Mechanical Specifications

Crush resistance	3000 N/10 cm
Max. tensile strength for installation	2700 N
Min. bend radius installation	230 mm
Min. bend radius operation	175 mm
Nominal outer diameter	11.4 mm

Optical Characteristics

Cable cutoff wavelength	1260 nm
Fibre code	E
Fibre name	E9/125 SMF28e+®
Fibre Type	Single-mode
Performance option code	22
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

Dimensions

Cable Weight	155 kg/km
Max. cable length per reel/drum	6000 m



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

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