

Loose Tube Steel Armour Double Jacket Indoor/ Outdoor Cable 8x12 E9 SMF-28e+® ITU G652.D LT 2.3

CORNING

Part Number:
096ERV-T3122H2G

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

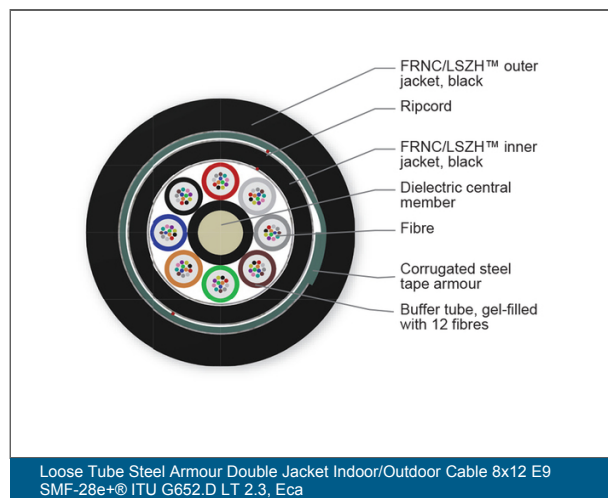
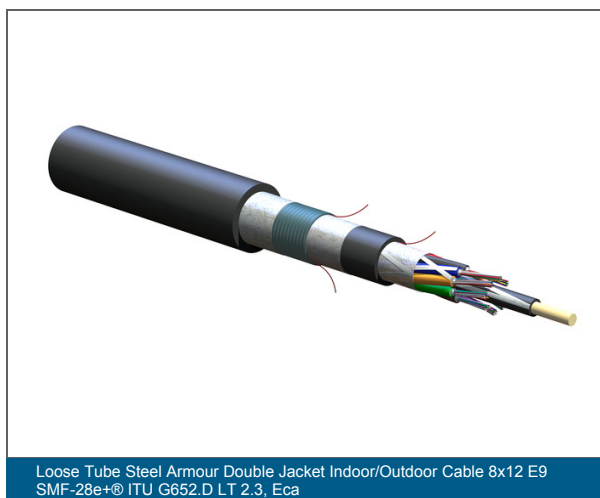
Isolates fibres from installation and environmental rigors and facilitates mid-span access

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

Cable type	Loose tube
Environment	Indoor/Outdoor
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)H(SR)H
Application	Direct Buried, Duct, General purpose
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
Reaction to Fire	Eca
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: 10)
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

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

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Environmental Conditions

Temperature range, storage (stored on drum with original packing)	-40 °C to 75 °C
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Cable Design

Cable marking	Metre - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)H(SR)H 96 E9 LT 2.3 LSZH(TM)/FRNC
Central element	Dielectric with FRNC/LSZH coating
Fibre count	96
Number of ripcords	3
Outer jacket colour	Black
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket nominal thickness	2 mm
Tensile strength elements and/or armouring - Layer 2	Corrugated steel tape armour with water-swellaable tape
Buffer tube colour	Blue, orange, green, brown, grey, white, red, black
Buffer tube diameter	2.25 mm
Buffer tube water blocking	Thixotropic gel
Central element diameter	3.9 mm
Inner jacket material	Flame-retardant
Number of active tubes	8
Number of tube positions	8
Tape, layer 1	Water-swellaable
Tape, layer 2	Water-swellaable
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	3000 N/10 cm
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Mechanical Specifications

Max. tensile strength for installation	2700 N
Min. bend radius installation	320 mm
Min. bend radius operation	240 mm
Nominal outer diameter	16 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
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/(nm*km)
PMD (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/(nm*km)

Dimensions

Cable Weight	295 kg/km
Max. cable length per reel/drum	6000 m

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