Loose Tube Steel Armor Indoor/Outdoor Cable 2x12 E9 SMF-28e+® ITU G.652.D LT 2.3

Part Number:
024ERY-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 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 and in-house.

Features and Benefits

Waterblocking technology
OSP (outdoor) applications

Corrugated steel armoring
Rodent, mechanical protection and direct buried applications

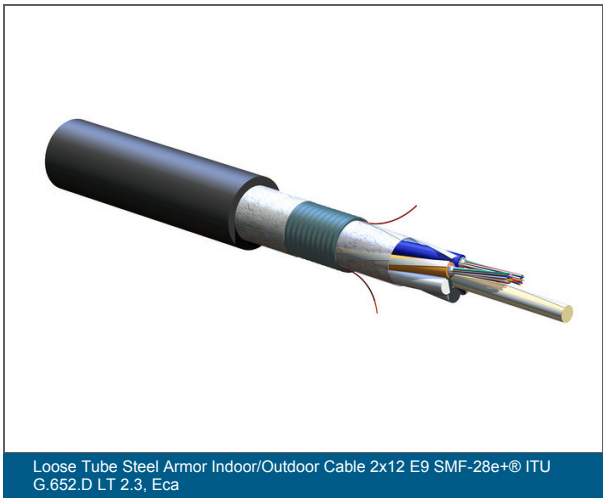
Fibres/buffer tubes colour coded to Telcordia-Bellcore
Easy identification of the individual tubes and fibres

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 fibers 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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CORNING

Specifications

General Specifications	
Cable Type	Loose Tube
Environment	Indoor/Outdoor
Product Type	Corrugated Steel Armor
Fiber 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 purpose
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
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: 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

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

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Cable Design	
Cable Marking	Meter - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 24 E9 LT 2.3 LSZH(TM)/FRNC
Central Element	Dielectric
Fiber Count	24
Number of Ripcords	2
Outer Jacket Color	Black
Outer Jacket Material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer Jacket Nominal Thickness	1.5 mm
Buffer Tube Color	Blue, Orange
Buffer Tube Diameter	2.25 mm
Buffer Tube Water Blocking	Thixotropic Gel
Central Element Diameter	2.5 mm
Number of Active Tubes	2
Number of Filling Elements	4
Number of Tube Positions	6
Tape	Water-swellable
Tensile Strength Elements and/or Armoring	Corrugated steel tape armor with water-swellable tape
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Color Code Standards	Telcordia

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	114 mm
Nominal Outer Diameter	11.4 mm

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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
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/√km
PMD maximum individual fiber	≤ 0.1 ps/√km

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

RoHS COMPLIANT

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