Central Tube Steel Armor Indoor/Outdoor Cable 1x4 E9 SMF-28e+® ITU G652.D CT 3.0

Part Number:
004EEY-13122H2G

Corning MPC (multipurpose cable) central tube cables with corrugated steel armoring are flame–retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct, direct burial and riser applications. The central tube cable construction, by isolating the fibers from installations and environmental rigors, provides stable and highly reliable transmission parameters. The fibers are color coded for quick, easy identification. Based on a central buffer tube, the cable construction is compact, light, flexible and ideal for connections requiring a moderate fiber count. The cables are designed for installation in conduits, ducts, direct burial and in-house.

Features and Benefits

Waterblocking technology
OSP (outdoor) applications

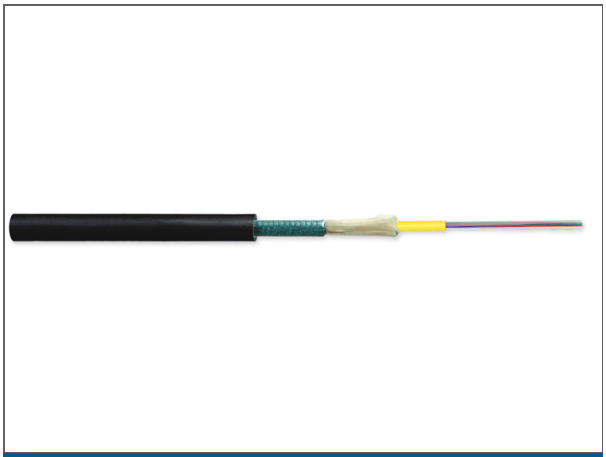
UV- and microbe-resistant
Can be installed in ducts or conduits

Corrugated steel armoring
Rodent, mechanical protection and direct buried applications

Small diameter and bend radius
Easy installation in space-constrained areas

Fibers color coding to Telcordia-Bellcore
Easy identification of the individual fibers

Flame retardant
LSZH/FRNC



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Specifications

General Specifications	
Cable Type	Single 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, Horizontal, Vertical Riser
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
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 according 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 (23 °F to 122 °F)
Temperature Range, Operation	-30 °C to 75 °C (-22 °F to 167 °F)
Temperature Range, Storage	-40 °C to 75 °C (-40 °F to 167 °F)
Temperature Range, Storage (Stored on drum with original packing)	-40 °C to 75 °C (-40 °F to 167 °F)

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CORNING

Cable Design	
Cable Marking	Meter - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 4 E9 CT 3.0 LSZH(TM)/FRNC
Fiber Count	4
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
Tensile Strength Elements and/or Armoring - Layer 1	Aramid yarn with swellable elements
Tensile Strength Elements and/or Armoring - Layer 2	Corrugated steel tape armor with water-swellable tape
Buffer Tube Diameter	3 mm
Buffer Tube Water Blocking	Thixotropic Gel
Fiber Coloring	Blue, Orange, Green, Brown
Fibers per Tube	4

Mechanical Specifications	
Crush Resistance	2000 N/10 cm
Max. Tensile Strength for Installation	1000 N
Min. Bend Radius Installation	150 mm
Min. Bend Radius Operation	110 mm
Nominal Outer Diameter	7.5 mm

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

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CORNING

Optical Characteristics	
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/(nm*km)
PMD maximum individual fiber	≤ 0.1 ps/(nm*km)

Dimensions	
Cable Weight	76 kg/km
Max. cable length per reel/drum	6000 m

RoHS COMPLIANT

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