

Loose Tube Dielectric Armor Indoor/Outdoor Cable 2x6 E9 SMF-28e+® ITU G652.D LT 2.3

CORNING

Part Number:
012ERU-63122A2G

Corning® MPC (multipurpose cable) stranded loose tube cables are flame-retardant, indoor/outdoor cables designed for interbuilding and 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

All-dielectric construction

Requires no grounding or bonding

UV- and microbe-resistant

Can be installed in ducts or conduits

Waterblocking technology

OSP (outdoor) applications

Laminated glass yarns

Improved rodent resistance

Fibres/buffer tubes colour coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures

Flame retardant

LSZH/FRNC



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Specifications

General Specifications

Cable Type	Loose Tube
Environment	Indoor/Outdoor
Product Type	Dielectric 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)BH
Application	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	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

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Cable Design	
Cable Marking	Meter - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)BH 12 E9 LT 2.3 LSZH(TM)/FRNC
Central Element	Dielectric
Fiber Count	12
Number of Ripcords	1
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
Central Element Diameter	2.5 mm
Fibers per Bundle	6
Number of Active Tubes	2
Number of Filling Elements	4
Number of Tube Positions	6
Tape	Water-swellaable
Tensile Strength Elements and/or Armoring	Laminated glass yarn armor
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White
Fibers per Tube	6
Color Code Standards	Telcordia

Mechanical Specifications	
Crush Resistance	2000 N/10 cm
Max. Tensile Strength for Installation	4000 N
Min. Bend Radius Installation	215 mm
Min. Bend Radius Operation	160 mm
Nominal Outer Diameter	10.9 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/(nm*km)
PMD maximum individual fiber	≤ 0.1 ps/(nm*km)

Dimensions

Cable Weight	117 kg/km
Max. cable length per reel/drum	6000 m



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