

FREEDM™ Gel-free Loose Tube Dielectric Armor Indoor/Outdoor Cable LT 2.3 2x12 E9/125 SMF-28® Ultra LT 2.3

CORNING

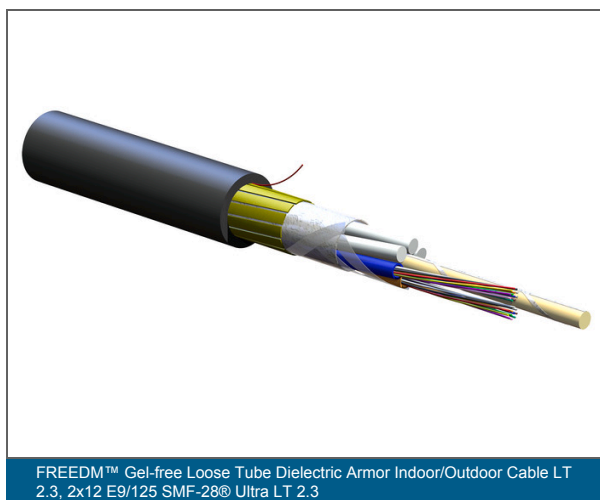
Part Number:
024ZRU-T3120D2G

Corning gel-free MPC (multi-purpose cable) stranded loose tube cables are flame-retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct and riser applications. The innovative dry, gel-free design with water -blocking technology eliminates the need for traditional flooding compound, providing more efficient and craft -friendly cable preparation. 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 colour coded for quick, 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.

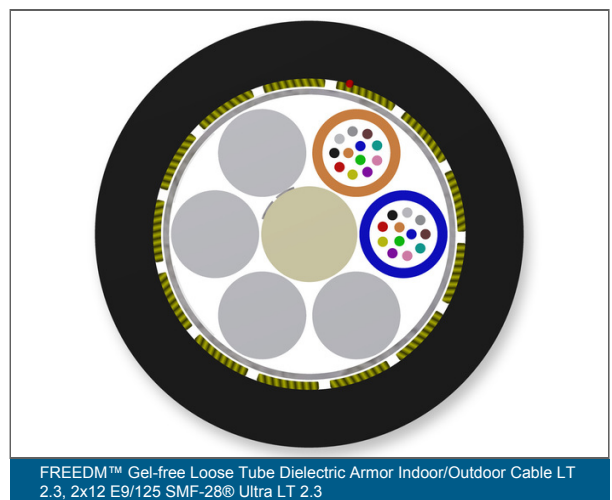
Features and Benefits

Dry, gel-free tube

Minimal cleaning, easy cable preparation



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Specifications

General Specifications

Environment	Indoor / Outdoor, universal
Cable Type	Loose Tube
Product Type	Dielectric armor
Fiber Category	SMF-28® Ultra fiber
Flame Rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Application	Duct, Vertical Riser, General Purpose Horizontal

Standards

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 to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2 and EN 50267
Reaction to fire	Eca
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-1-2 (single cable), Reaction to fire according to EN 50575 and EN 13501-6, Low smoke according to IEC 61034 and zero halogen to IEC 60754-1, Non-corrosive according to IEC 60754-2 and EN 50267
Waterblocking	IEC 60794-1-2 F5

Environmental Conditions

Temperature Range, Installation	-5 °C to 50 °C
Temperature Range, Operation	-30 °C to 70 °C
Temperature Range, Storage	-40 °C to 70 °C

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Cable Design	
Cable Marking	Meter - Handset - CE 18 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-BQ(ZN)BH 24 E9U LT 2.3 LSZH(TM)/FRNC
Central Element	Dielectric
Fiber Count	24
Buffer Tube Color Coding	Blue, Orange
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
Tensile Strength Elements and/or Armoring - Layer 1	Laminated glass yarn armor
Buffer Tube Color	Blue, Orange
Buffer Tube Diameter	2.25 mm
Central Element Diameter	2.5 mm
Filling Element Color	Natural
Number of Active Tubes	2
Number of Filling Elements	4
Number of Tube Positions	6
Tape	Water-swellaable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

Mechanical Specifications	
Crush Resistance	2000 N/10 cm
Fire Load	2.5 MJ/m
Max. Tensile Strength for Installation	4000 N
Min. Bend Radius Installation	214 mm
Min. Bend Radius Operation	160 mm

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Mechanical Specifications

Nominal Outer Diameter	10.7 mm
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Optical Characteristics

Cable cutoff wavelength	1260 nm
Fiber Code	Z
Fiber Name	SMF-28® Ultra 242 Optical Fiber
Fiber Type	Single-mode
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Cladding diameter	125 µm
Dispersion @ 1550 nm	18 nm
Dispersion in the range 1285 to 1330 nm	3.5 nm
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.20 dB/km
Mode-Field Diameter at 1310 nm	9.2 µm
Serial 1 Gigabit Ethernet	5000 MHz*km / -
Serial 10 Gigabit Ethernet	10000 MHz*km / 40000 MHz*km
Typical Attenuation	0.32 / 0.32 / 0.18
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	0.04 ps/(nm*km)
PMD maximum individual fiber	0.1 ps/(nm*km)
Coating diameter	242 µm

Ordering Information

Product Number	024ZRU-T3120D2G
Maximum Delivery Length	2000 m
Weight	109 kg/km

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The Corning logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font.

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