

FREEDM™ Gel-free Loose Tube Dielectric Armour Indoor/Outdoor Cable LT 2.0 Gen2, U-BQ(ZN)BH U- BQ(ZN)BH 2x12 SMF-28® Ultra, B2ca, s1b, d1, a1

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

Part Number:
024ZPU-T3F20D2C

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.

Corning gel-free MPC (multi-purpose cable) stranded loose tube cables light design and improved mechanical performance provide an alternative to traditional loose tube cables reduced physical strain, improved portability, providing convenience and flexibility, along with superior mechanical functionality.

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, 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.

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Specifications

General Specifications

Cable type	Loose tube
Product type	Dielectric
Fibre category	SMF-28® Ultra fibre
Flame rating	LSZH/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Cable geometry	Round

Standards

Reaction to fire	B2ca, s1b, d1, a1
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) and IEC 60332-3-24 (bunch of cables)
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 60 °C
Temperature range, operation	-40 °C to 70 °C
Temperature range, storage	-40 °C to 70 °C

Cable Design

Cable marking	"Metre - Handset - CE 23 EN 50575 B2ca-s1b,d1,a1 - Sine - CORNING - Fibre Optic Cable - Year - U-BQ(ZN)BH 24 E9 ULTRA/125 LT 2.0 LSZH(TM)/FRNC"
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Cable Design

Central element	Dielectric with FRNC/LSZH coating
Fibre count	24
Outer jacket colour	Black
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket nominal thickness	1.4 mm
Buffer tube diameter	1.95 mm
Number of active tubes	2
Number of filling elements	4
Number of tube positions	6
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Colour Code Standards	Telcordia

Mechanical Specifications

Max. tensile strength for installation	4500 N
Min. bend radius installation	190 mm
Min. bend radius operation	190 mm
Nominal outer diameter	9.5 mm

Optical Characteristics

Cable cutoff wavelength	1260 nm
Fibre code	Z
Fibre name	SMF-28® Ultra 242 Optical Fibre
Fibre Type	Single-mode
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Performance option code	25
Cladding diameter	125 µm

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Optical Characteristics

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 dB/km / 0.32 dB/km / 0.18 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	0.04 ps/(nm*km)
PMD (Polarization Mode Dispersion) maximum individual fibre	0.1 ps/(nm*km)
Coating diameter	242 µm
Dispersion @ 1550 nm	≤ 18 [ps/(nm ♦ km)]
Dispersion in the range 1285 to 1330 nm	≤ 3.5 [ps/(nm ♦ km)]

Dimensions

Cable Weight	105 kg/km
Max. cable length per reel/drum	6000 m

Ordering Information

Product Number	024ZPU-T3F20D2C
Minimum order quantity	2000 m



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