

FREEDM™ Gel-free Loose Tube Dielectric Armour Indoor/Outdoor Cable Gen 2, U-BQ(ZN)BH 1x12 MMF ClearCurve® OM4 LT 2.0 LT 2.0, B2ca-s1b, d1, a1

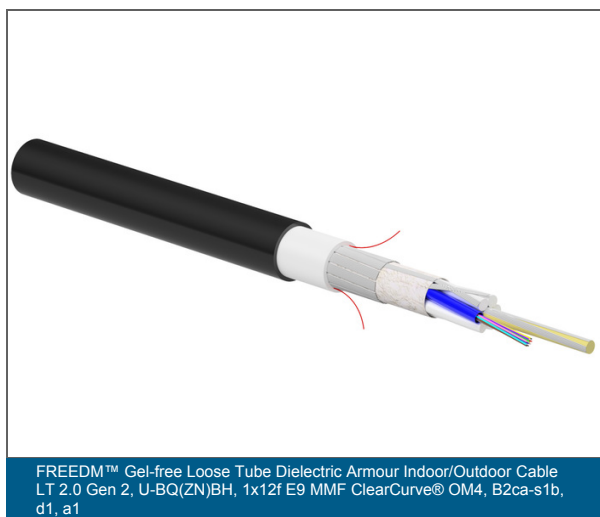
CORNING

Part Number:
012TPU-T3F98D2C

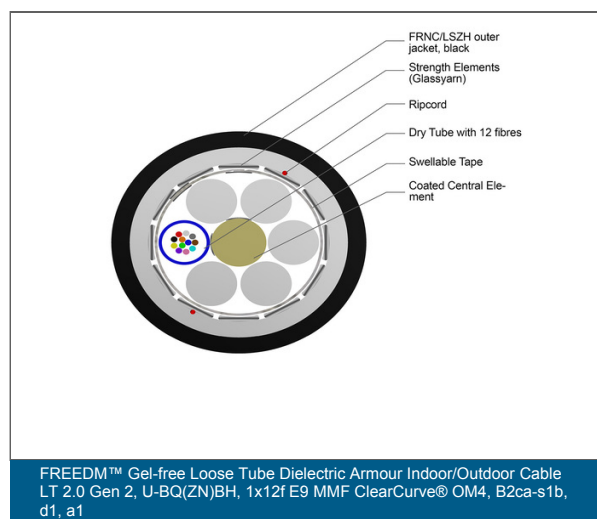
Corning gel-free MPC (multi-purpose cable) stranded loose tube cables are flame-retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct and riser applications. The innovative dry, gel-free design with water -blocking technology eliminates the need for traditional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



FREEDM™ Gel-free Loose Tube Dielectric Armour Indoor/Outdoor Cable LT 2.0 Gen 2, U-BQ(ZN)BH, 1x12f E9 MMF ClearCurve® OM4, B2ca-s1b, d1, a1



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Specifications

General Specifications

Cable type	Loose tube
Environment	Indoor/Outdoor
Product type	Dielectric
Fibre category	50 µm MM (OM4)
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 - CPR Data - Sine - CORNING - Fibre Optic Cable - Year - Cable Description - LSZH(TM)/FRNC
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Cable Design	
Central element	Dielectric with FRNC/LSZH coating
Fibre count	12
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	1
Number of filling elements	5
Number of tube positions	6
Tape	Waterblocking tape and yarns
Cable marking method	Inkjet printing
Cable marking colour	White
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Colour Code Standards	Telcordia

Mechanical Specifications	
Crush resistance	2200 N/10 cm
Max. tensile strength for installation	3000 N
Min. bend radius installation	190 mm
Min. bend radius operation	190 mm
Nominal outer diameter	9.5 mm

Optical Characteristics	
Fibre code	T
Performance option code	98
Fibre category	OM4

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Optical Characteristics

Fibre Type	Multimode
Fibre name	50 µm MM (OM4)
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Wavelengths	850 nm / 1300 nm
Fibre compliance	IEC 60793-2-10
Fibre core diameter	50 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Serial 1 gigabit ethernet	1000 m / 600 m
Serial 10 gigabit ethernet	550 m / -
Minimum effective modal bandwidth (EMB)	4700 MHz*km / -
Min. overfilled launch (OFL) bandwidth	3500 MHz*km / 500 MHz*km

Dimensions

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

Ordering Information

Product Number	012TPU-T3F98D2C
Minimum order quantity	2000 m



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