

FREEDM™ B2 Gel-free Central Tube Indoor Outdoor Cable 1x12 G50 MMF ClearCurve® OM3 CT 2.5



CORNING

Part Number:
012TEU-23188D2C

Features and Benefits

Dry, gel-free tube

Minimal cleaning, easy cable preparation

All-dielectric cable construction

Requires no grounding or bonding

Laminated swelling glass yarns

Improved rodent resistance and longitudinal water protection

UV- and microbe-resistant

Can be installed in ducts or conduits

Small diameter and bend radius

Easy installation in space-constrained areas

Fibres colour coding to Telcordia-Bellcore

Easy identification of the individual fibres

Waterblocking technology

OSP (outdoor) applications

Silicon-free outer jacket

Cable jacket is free of components harmful to paint structures

Flame retardant

LSZH™/FRNC

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Specifications

Mechanical Specifications

Crush resistance	1500 N/10 cm
Fire load	0.8 MJ/m
Min. bend radius installation	122 mm
Min. bend radius operation	92 mm
Nominal outer diameter	6.1 mm
Weight	42 kg/km

Cable Design

Cable marking	Metre - Handset - CPR rating - Sine - CORNING - Fibre Optic Cable - Year - U-BQ(ZN)BH 12 OM3CC CT 2.5 LSZH(TM)/FRNC
Fibre count	12
Number of ripcords	1
Outer jacket colour	Black
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Tensile strength elements and/or armouring - Layer 1	Water-swellable dielectric strength members
Tensile strength elements and/or armouring - Layer 2	Glass yarn armouring
Number of tube positions	1
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12

Environmental Conditions

Temperature range, installation	-10 °C to 60 °C
Temperature range, operation	-30 °C to 70 °C
Temperature range, storage	-30 °C to 70 °C

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General Specifications

Environment	Indoor / Outdoor, universal
Cable type	Single Tube
Product type	Dielectric armour
Fibre category	50 µm MM (OM3)
Flame rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Application	Aerial, Duct, Direct Buried, General Purpose Horizontal

Ordering Information

Product Number	012TEU-23188D2C
Maximum delivery length	4000 m
Weight	42 kg/km

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Reaction to fire	B2ca, s1a, d0, a1
Waterblocking	IEC 60794-1-2 F5
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

Optical Characteristics

Fibre code	T
Fibre name	G50/125 ULTRA-BEND 7.5
Fibre Type	Multimode

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Optical Characteristics	
Fibre core diameter	50 µm
Minimum effective modal bandwidth (EMB)	2000 MHz*km / -
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Min. overfilled launch (OFL) bandwidth	1500 MHz*km / 500 MHz*km
Serial 1 gigabit ethernet	1000 MHz*km / 600 MHz*km
Serial 10 gigabit ethernet	300 MHz*km / 333 MHz*km
Typical attenuation	2.4 dB/km / 0.8 dB/km
Wavelengths	850 nm / 1300 nm
Fibre category	OM3

Standards	
Fibre Standards	TIA/EIA-492AAAC-A, Tested with minEMBc method to TIA/EIA-455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0, IEC 60793-1-49 Ed.2.0, ITU-T G.651, ISO/IEC 11801 Ed.2.2 Cat. OM3



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