

FREEDM™ B2 Gel-free Central Tube Indoor Outdoor Cable 1x12 G50 MMF ClearCurve® OM4 CT 2.5

CORNING

Part Number:
012TEU-23198D2C

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

Fibers color coding to Telcordia-Bellcore

Easy identification of the individual fibers

Waterblocking technology

OSP (outdoor) applications

Silicon-free outer jacket

Cable jacket is free of components harmful to paint structures

Flame retardant

LSZHTM/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	Meter - Handset - CPR rating - Sine - CORNING - Fibre Optic Cable - Year - U-BQ(ZN)BH 12 OM4CC CT 2.5 LSZH(TM)/FRNC
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
Tensile Strength Elements and/or Armoring - Layer 1	Water-swellable dielectric strength members
Tensile Strength Elements and/or Armoring - Layer 2	Glass yarn armoring
Number of Tube Positions	1
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers 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 armor
Fiber 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
Application	Aerial, Duct, Direct Buried, General Purpose Horizontal

Ordering Information

Product Number	012TEU-23198D2C
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

Fiber Code	T
Fiber Name	G50/125 ULTRA-BEND 7.5
Fiber Type	Multimode

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Optical Characteristics

Fiber Core Diameter	50 µm
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Serial 1 Gigabit Ethernet	1100 MHz*km / 600 MHz*km
Serial 10 Gigabit Ethernet	550 MHz*km / -
Typical Attenuation	2.4 / 0.8
Wavelengths	850 nm / 1300 nm
Fiber Category	OM4

Standards

Fiber Standards	TIA/EIA-492AAAD, Tested with minEMBc method to TIA/EIA-455-220, IEC 60793-2-10 Type A1a.3, IEC 60793-1-49 Ed.2.0, ITU-T G.651, ISO/IEC 11801 Ed.2.2 Cat. OM4
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