

FREEDM™ Tight Buffer Indoor/Outdoor Cable 24F G50 MMF ClearCurve® OM4 0.9mm TB3, Cca-s1a,d1,a1

CORNING

Part Number:

024T8X-32198E2G

Corning MPC (multipurpose cable) tight-buffered cables are flame-retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct and riser applications.

The tight-buffered construction facilitates easier termination for low-fiber-count applications in the local area network (LAN) and eliminates need for fan-out kits.

These cables are designed for installation in conduits, ducts and in-house.



Features and Benefits

Waterblocking technology

OSP (outdoor) applications

All-dielectric construction

Requires no grounding or bonding

UV- and microbe-resistant

Can be installed in ducts or conduits

Dry cable core by means of water swellable elements

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

Small diameter and bend radius

Easy installation in space-constrained areas

TB3 tight buffered construction

Easy and consistent stripping up to 10 cm

Flame retardant

LSZHTM/FRNC

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Specifications

Mechanical Specifications

Crush Resistance	500 N/10 cm
Fire Load	1.15 MJ/m
Min. Bend Radius Installation	160 mm
Min. Bend Radius Operation	121.5 mm
Nominal Outer Diameter	8.1 mm

Cable Design

Cable Marking	Meter - Handset - CE 17 EN 50575 Cca-s1a,d1,a1 - Sine - CORNING - Fibre Optic Cable - Year - FREEDM(TM) U-VQ(ZN)H 24 OM4CC TB3 0.9 LSZH(TM)/FRNC
Central Element	FRNC/LSZH
Fiber Count	24
Number of Ripcords	1
Buffer Tube Diameter	900 mm
Outer Jacket Color	Black
Buffering Diameter	900 µm
Outer Jacket Material	Flame-retardant, non-corrosive/low-smoke, silicon-free, zero-halogen (FRNC/LSZH) material
Central Element Diameter	1.95 mm
Outer Jacket Nominal Thickness	0.8 mm
Tensile Strength Elements and/or Armoring - Layer 1	Aramid yarn with swellable elements
Tensile Strength Elements and/or Armoring - Layer 2	Aramid yarn with swellable elements

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Cable Design

Tight Buffer Color, Layer 1 Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow

Tight Buffer Color, Layer 2 Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White *, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*

Tight Buffer Type TB3 (easy strip up to 10 cm)

Flame Rating LSZH™/FRNC

Environmental Conditions

Temperature Range, Storage -25 °C - 70 °C (-13 °F - 158 °F)

Temperature Range, Installation -5 °C - 50 °C (23 °F - 122 °F)

Temperature Range, Operation -20 °C - 60 °C (-4 °F - 140 °F)

General Specifications

Environment Indoor/Outdoor

Cable Type Tight-Buffered

Product Type Dielectric

Fiber Category 50 µm MM (OM4)

Flame Rating LSZH™/FRNC

Coding according to EN 60794-1-1 (DIN VDE 0888-100-1) U-VQ(ZN)H

Application Direct Buried , Duct , Vertical Riser , General Purpose Horizontal

Ordering Information

Weight 65 kg/km

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Standards

Reaction to fire	Cca, s1a, d1, a1
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Waterblocking	IEC 60794-1-2 F5
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 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
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

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