

FREEDM™ Tight Buffer Indoor/Outdoor Cable 8F G50 MMF ClearCurve® OM4 0.9mm TB3, Dca-s1a, d1, a1



CORNING

Part Number:
008T8X-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-fibre-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 cable 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

LSZH/FRNC

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Specifications

General Specifications	
Cable type	Tight-buffered
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-VQ(ZN)H
Application	Direct Buried, Duct, Vertical Riser, General purpose, Horizontal
Cable geometry	Round

Standards	
Reaction to Fire	Dca, s1a, 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 50 °C
Temperature range, operation	-20 °C to 60 °C
Temperature range, storage	-25 °C to 70 °C

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Cable Design	
Cable marking	Metre - Handset - CE 17 EN 50575 Cca-s1a,d1,a1 - Sine - CORNING - Fiber Optic Cable - Year - FREEDM(TM) U-VQ(ZN)H 8 OM4CC TB3 0.9 LSZH(TM)/FRNC
Central element	Aramid yarn with swellable elements
Fibre count	8
Number of ripcords	1
Outer jacket colour	Black
Buffering diameter	900 µm
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket nominal thickness	0.8 mm
Tensile strength elements and/or armouring - Layer 1	Aramid yarn with swellable elements
Tensile strength elements and/or armouring	Aramid yarn with swellable elements
Tight buffer colour	Blue, orange, green, brown, grey, white, red, black
Tight buffer type	TB3 (easy strip up to 10 cm)
Flame rating	LSZH/FRNC

Mechanical Specifications	
Crush resistance	750 N/10 cm
Crush resistance (reversible), outdoor cable	750 N/10 cm
Fire load	0.6 MJ/m
Max. tensile strength for installation	800 N
Min. bend radius installation	110 mm
Min. bend radius operation	55 mm
Nominal outer diameter	5.5 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	30 kg/km
Max. cable length per reel/drum	4000 m



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