

# FREEDM™ Tight Buffer Indoor/Outdoor Cable

8F G50 MMF ClearCurve® OM2 0.9mm TB3, Cca-s1a,d1,a1

CORNING

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

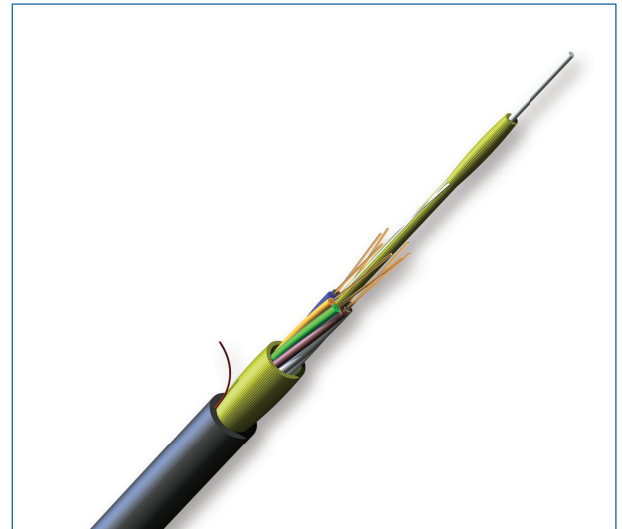
Easy and consistent stripping up to 10 cm

### Flame retardant

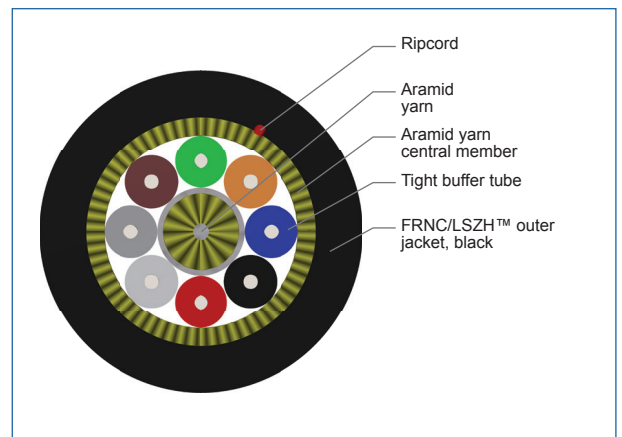
LSZH™/FRNC

### Silicon-free outer jacket

The cable jacket and the outer jacket of subunits (not valid for 900µm tight buffers) are free of harmful to paint structures



Part Number: 008T8X-32138E2G



Cross Section of Order Number: 008T8X-32138E2G

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## Standards

<b>Flame Test Method</b>	Flame retardant to IEC 60332-1-2 (single cable); IEC 60332-3-24 (bunch of cables) Reaction to fire according to EN 50575 and EN 13501-6 Low Smoke to IEC 61034 and Zero Halogen to IEC 60754-1 Non Corrosive to IEC 60754-2
<b>Waterblocking</b>	IEC 60794-1-2F5

## Specifications

General Specifications	
Environment	Indoor/Outdoor Universal Cable
Application	Direct Buried, Duct, Vertical Riser, General Purpose Horizontal
Cable type	Tight buffered
Product type	Dielectric
Flame rating	LSZH™/FRNC
Fibre Category	50 µm MM (OM2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-VQ(ZN)H
Previous part number	LCXLN2-L5008-G700
Previous coding following DIN VDE 0888-3	A-VQH
Reaction to fire	Cca-s1a,d1,a1

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-20 °C to 60 °C
Storage	-25 °C to 70 °C

Cable Design	
Central element	Aramid yarn with swellable elements
Fibre count	8

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## Cable Design

Buffering diameter	900 µm
Tight buffer type	TB3 (strippable up to 10 cm)
Tight buffer colour	Blue, Orange, Green, Brown, Grey, White, Red, Black
Tensile Strength Elements and/or Armouring - Layer 1	Aramid yarn with swellable elements
Number of ripcords	1
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket colour	Black
Outer jacket nominal thickness	0.8 mm
Cable marking	Metre - Handset - CE 17 EN 50575 Cca-s1a,d1,a1 - Sine - CORNING - Fibre Optic Cable - Year - FREEDM(TM) U-VQ(ZN)H 8 OM2CC TB3 0.9 LSZH(TM)/FRNC

## Mechanical Characteristics Cable

Nominal Outer Diameter	5.5 mm
Weight	30 kg/km
Min. Bend Radius Installation	85 mm
Min. Bend Radius Operation	27 mm
Max. tensile strength for installation	800 N
Crush resistance (reversible)	750 N/10 cm
Fire Load	0.6 MJ/m

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fibre Specifications

### Optical Characteristics (cabled)

Fibre name	G50/125 ULTRA-BEND 7.5
Fibre code	T
Fibre core diameter	50 µm
Fibre Category	OM2
Wavelengths	850 nm / 1300 nm
Maximum attenuation	2.8 dB/km / 1.0 dB/km
Typical attenuation	2.4 dB/km / 0.8 dB/km

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## Fibre Specifications

Optical Characteristics (cabled)	
Serial 1 gigabit ethernet	750 m / 600 m
Serial 10 gigabit ethernet	150 m / -
Min. overfilled launch (OFL) bandwidth	700 MHz*km / 500 MHz*km
Minimum effective modal bandwidth (EMB)	950 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

Notes: 1) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel  
2) Improved attenuation and bandwidth options available  
3) Bend-insensitive single-mode fibres available on request.  
4) Contact a Corning Customer Care Representative for additional information

## Ordering Information

Part Number	008T8X-32138E2G
Product Description	FREEDM™ Tight Buffer Indoor/Outdoor Cable 8F G50 MMF ClearCurve® OM2 0.9mm TB3, Cca-s1a,d1,a1
EAN Code	4042673345718

## Shipping Information

Maximum delivery length	2,000 m
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