

FREEDM™ Tight Buffer Indoor/Outdoor Cable 4F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca- s1a,d1,a1

CORNING

Part Number:
004T8X-32188E2G

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

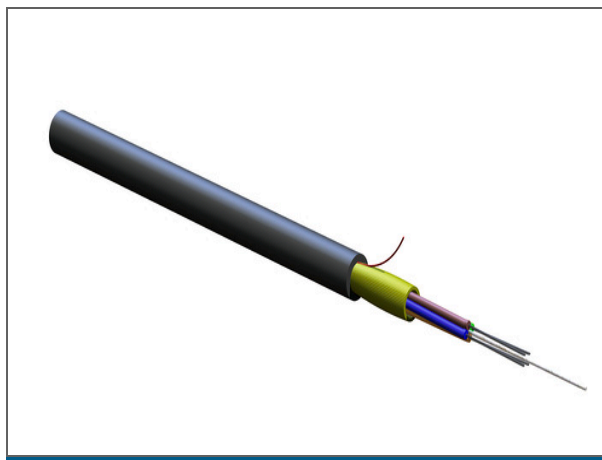
Easy installation in space-constrained areas

TB3 tight buffered construction

Easy and consistent stripping up to 10 cm

Flame retardant

LSZHTM/FRNC



FREEDM™ Tight Buffer Indoor/Outdoor Cable 4F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca- s1a,d1,a1

CORNING

Specifications

Mechanical Specifications

Crush Resistance	500 N/10 cm
Fire Load	0.4 MJ/m
Min. Bend Radius Installation	80 mm
Min. Bend Radius Operation	67.5 mm
Nominal Outer Diameter	4.5 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 4 OM3CC TB3 0.9 LSZH(TM)/FRNC
Fiber Count	4
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
Outer Jacket Nominal Thickness	0.8 mm
Tensile Strength Elements and/or Armoring - Layer 1	Aramid yarn
Tight Buffer Color	Blue, Orange, Green, Brown
Tight Buffer Type	TB3 (easy strip up to 10 cm)
Flame Rating	LSZH™/FRNC

Environmental Conditions

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

FREEDM™ Tight Buffer Indoor/Outdoor Cable 4F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca- s1a,d1,a1

CORNING

General Specifications

Environment	Indoor/Outdoor
Cable Type	Tight-Buffered
Product Type	Dielectric
Fiber Category	50 µm MM (OM3)
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

Product Number	004T8X-32188E2G
EAN Code	4042673362173
Maximum Delivery Length	4000 m
Weight	22 kg/km

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
------------	---

FREEDM™ Tight Buffer Indoor/Outdoor Cable 4F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca- s1a,d1,a1

CORNING

Optical Characteristics	
Fiber Name	G50/125 ULTRA-BEND 7.5
Fiber Type	Multimode
Fiber 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	1100 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
Induced Attenuation	For 7.5 mm radius < 0.2 db / -
Fiber Category	OM3



Corning Optical Communications GmbH & Co. KG • Leipzig Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2021 Corning Optical Communications. All rights reserved.