

FREEDM™ Tight Buffer Indoor/Outdoor Cable 12F G62.5 MMF InfiniCor® OM1 0.9mm TB3, Cca- s1a,d1,a1

CORNING

Part Number:
012K8X-32108E2G

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

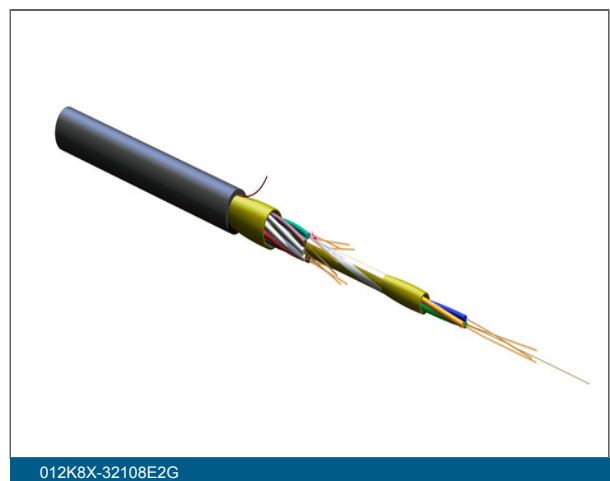
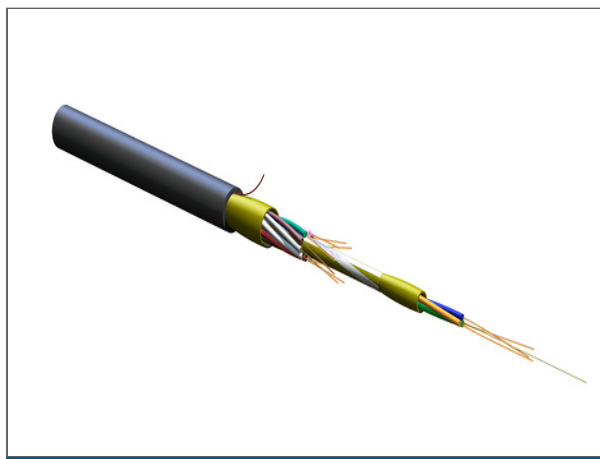
Easy installation in space-constrained areas

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	0.76 MJ/m
Min. Bend Radius Installation	130 mm
Min. Bend Radius Operation	97.5 mm
Nominal Outer Diameter	6.5 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 12 OM1 TB3 0.9 LSZH(TM)/FRNC
Central Element	Aramid yarn with swellable elements
Fiber Count	12
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 with swellable elements
Tensile Strength Elements and/or Armoring - Layer 2	Aramid yarn with swellable elements
Tight Buffer Color, Layer 1	Blue, Orange, Green
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tight Buffer Type	TB3 (easy strip up to 10 cm)
Flame Rating	LSZH™/FRNC

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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

General Specifications

Environment	Indoor/Outdoor
Cable Type	Tight-Buffered
Product Type	Dielectric
Fiber Category	62.5 µm MM (OM1)
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	40 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

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Optical Characteristics	
Fiber Code	K
Fiber Name	G62.5L/125 InfiniCor® 300
Fiber Type	Multimode
Fiber Core Diameter	62.5 µm
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 600 MHz*km
Serial 1 Gigabit Ethernet	300 MHz*km / 550 MHz*km
Serial 10 Gigabit Ethernet	33 MHz*km / -
Typical Attenuation	2.9 / 0.7
Wavelengths	850 nm / 1300 nm
Fiber Category	OM1



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