

FREEDM™ Tight Buffer Indoor/Outdoor Cable FREEDM™ Tight Buffer Indoor/Outdoor Cable

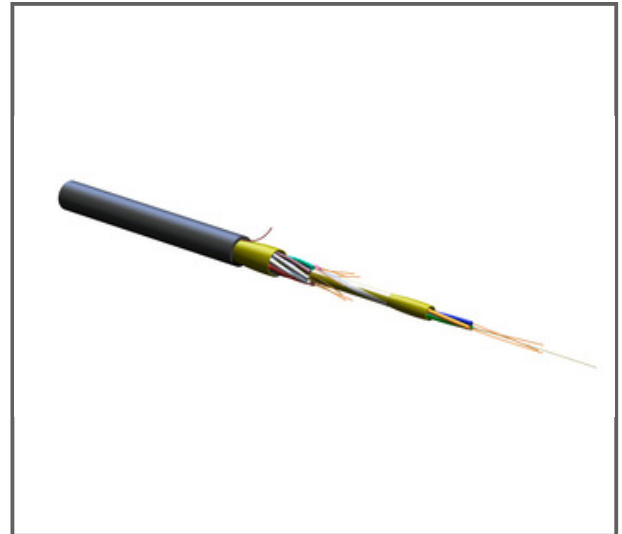
CORNING

Part Number:
012E8X-32125E2G

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



Specifications

Cable Design	
Fiber Count	12
Number of Ripcords	1
Outer Jacket Color	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
Tight Buffer Type	TB3 (easy strip up to 10 cm)

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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Mechanical Specifications

Crush Resistance	750 N/10 cm
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Environmental Conditions

Temperature Range, Installation	-5 °C - 50 °C (23 °F - 122 °F)
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Temperature Range, Operation	-20 °C - 60 °C (-4 °F - 140 °F)
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Temperature Range, Storage	-25 °C - 70 °C (-13 °F - 158 °F)
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General Specifications

Environment	Indoor/Outdoor
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Cable Type	Tight-Buffered
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Product Type	Dielectric
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Flame Rating	LSZH™/FRNC
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Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-VQ(ZN)H
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Application	Direct Buried , Duct , Vertical Riser , General Purpose Horizontal
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Optical Characteristics

Cable cutoff wavelength	1260 nm
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Fiber Code	E
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Fiber Name	E9/125 SMF28e+®
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Fiber Type	Single-mode
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Fiber Core Diameter	9 μm
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Optical Characteristics	
Serial 1 Gigabit Ethernet	5000 MHz*km / - / -
Serial 10 Gigabit Ethernet	10000 MHz*km / - / 40000 MHz*km
Typical Attenuation	0.38 / 0.38 / 0.25
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	OS2



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