

FREEDM® Tight Buffer Indoor/Outdoor Cable 12F E9/125 SMF-28® ULTRA 0.9 mm TB3, Cca-s1,d1,a1

CORNING

Part Number:
012Z8X-32125E2H

Corning® MPC (multipurpose cable) tight -buffered cables are flame -retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct and ri-ser applications. The tight -buffered construction facilitates easier termina-tion for low -fiber -count applications in the local area net-work (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

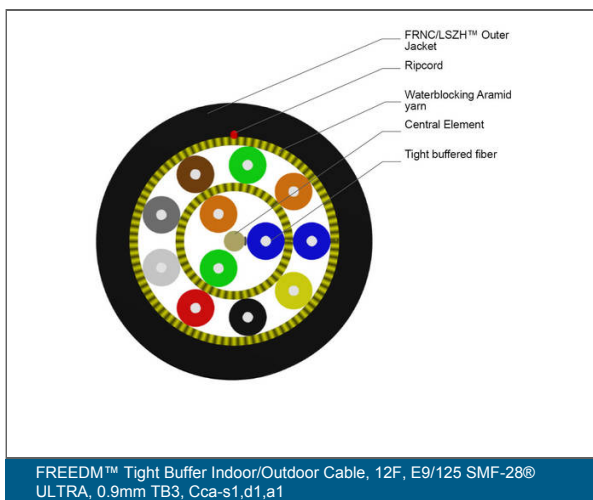
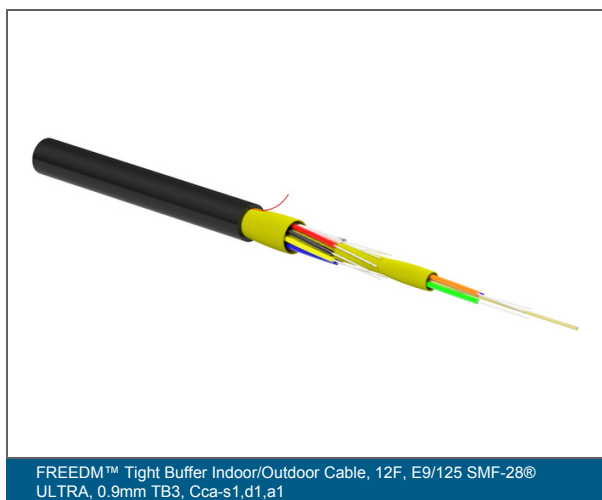
Easy and consistent stripping up to 10 cm

Flame retardant

LSZH/FRNC

Silicon-free outer jacket

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



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Specifications

General Specifications

Cable Type	Tight-Buffered
Product Type	Dielectric
Fiber Category	SMF-28® Ultra 242 Optical Fiber
Flame Rating	LSZH/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-VQ(ZN)H
Fiber Count	12

Standards

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 according to IEC 61034
Halogen content test	Zero Halogen according to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2
Reaction to fire	Cca, s1a, d1, a1

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

Cable Design

Cable Marking	"Meter - Handset - CE 23 EN 50575 Cca-s1,d1,a1 - Sine - CORNING - Fiber Optic Cable - Year - FREEDM(TM) U-VQ(ZN)H 12 E9/125 TB3 0.9 LSZH(TM)/FRNC"
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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, 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, 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

Mechanical Specifications

Crush Resistance	500 N/10 cm
Max. Tensile Strength for Installation	0.6 kN
Min. Bend Radius Installation	80 mm
Min. Bend Radius Operation	67.5 mm

Optical Characteristics

Cable cutoff wavelength	1260 nm
Fiber Code	Z
Fiber Name	SMF-28® Ultra 242 Optical Fiber
Fiber Type	Single-mode
Cladding diameter	125 µm
Dispersion @ 1550 nm	18 nm
Dispersion in the range 1285 to 1330 nm	3.5 nm
Maximum Attenuation	0.34 dB/km / 0.20 dB/km

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Optical Characteristics

Serial 1 Gigabit Ethernet	5000 MHz*km / -
Mode-Field Diameter at 1550 nm	9.2 µm
Serial 10 Gigabit Ethernet	10000 MHz*km / 40000 MHz*km
Typical Attenuation	0.32 dB/km / 0.32 dB/km / 0.18 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	0.04 ps/(nm*km)
PMD maximum individual fiber	0.1 ps/(nm*km)
Coating diameter	242 µm

Dimensions

Outer Diameter	4.5 mm
Cable Weight	22 kg/km
Max. cable length per reel/drum	2000 m



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