

# FREEDM™ Tight Buffer Indoor/Outdoor Cable

2 fibres E9 SMF-28e+® 0.9mm TB3

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

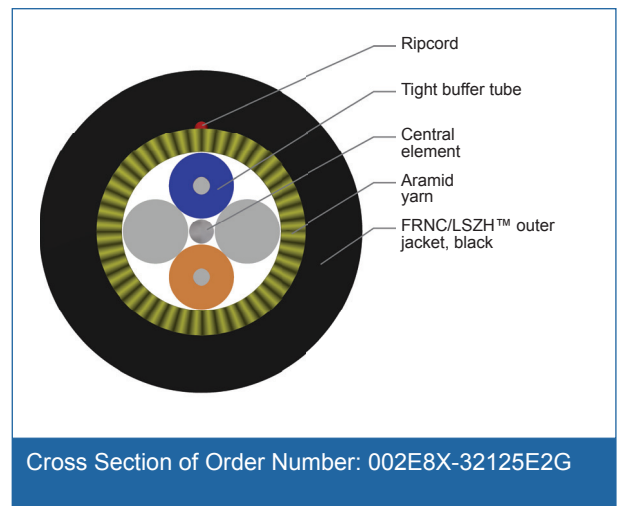
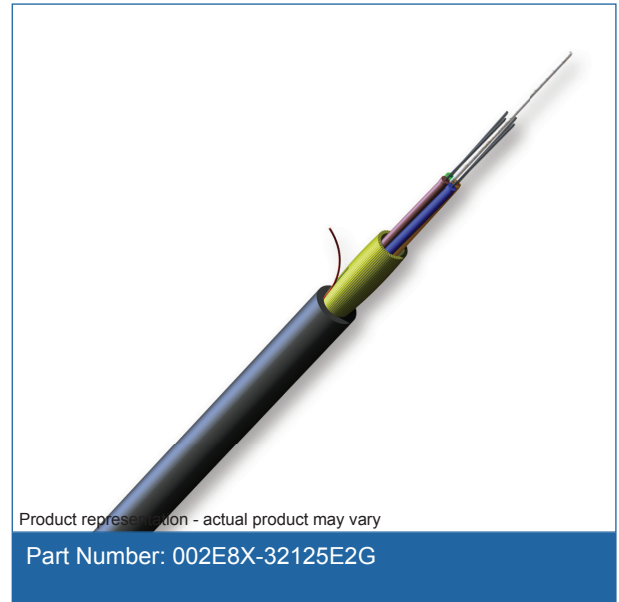
Easy installation in space-constrained areas

### TB3 tight-buffered construction

Easy and consistent stripping up to 10 cm

### 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



## Standards

### Flame Test Method

Flame retardant to IEC 60332-1-2 (single cable)

Flame retardant to IEC 60332-3-24 (bunch of cables)

Low Smoke to IEC 61034 and Zero Halogen to IEC 60754-1

Non Corrosive to IEC 60754-2

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## Standards

**Waterblocking** 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	SM (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-VQ(ZN)H

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

Cable Design	
Fibre Count	2
Number of filling elements	2
Buffering Diameter	900 µm
Tight Buffer Type	TB3 (strippable up to 10 cm)
Tight Buffer Colour	Blue, Orange
Tensile Strength Elements and/or Armouring - Layer 1	Aramid yarn
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 Sine CORNING Fibre Optic Cable Year FREEDM(TM) U-VQ(ZN)H 2 E9 TB3 0.9 LSZH(TM)/FRNC

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## Mechanical Characteristics Cable

Nominal Outer Diameter	4.5 mm
Weight	20 kg/km
Min. Bend Radius Installation	68 mm
Min. Bend Radius Operation	23 mm
Max. tensile strength for installation	600 N
Crush resistance (reversible)	750 N/10 cm
Fire Load	0.4 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	E9/125 SMF28e+
Fibre core diameter	9 µm
Fibre Category	OS2
Fibre code	E
Wavelengths	1310 nm / 1383 nm / 1550 nm
Linear Attenuation	0.38 dB/km / 0.38 dB/km / 0.25 dB/km
Serial 1 gigabit ethernet	5000 m / - / -
Serial 10 gigabit ethernet	10000 m / - / 40000 m
Cable cutoff wavelength	1260 nm

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.  
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	002E8X-32125E2G
Product Description	FREEDM™ Tight Buffer Indoor/Outdoor Cable 2F E9 SMF-28e+® 0.9mm TB3

## Shipping Information

Maximum delivery length	2,000 m
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# FREEDM™ Tight Buffer Indoor/Outdoor Cable

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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

## Notes



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