

FREEDM™ Tight Buffer Indoor/Outdoor Cable

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-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 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

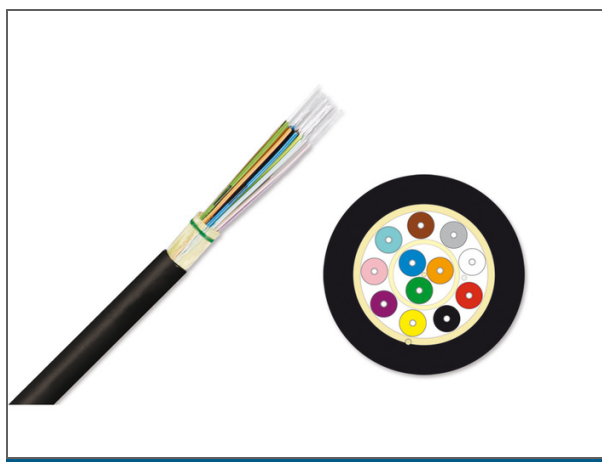
Easy installation in space-constrained areas

TB3 tight-buffered construction

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Flame retardant

LSZH/FRNC



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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Specifications

General Specifications

Environment	Indoor/Outdoor
Product type	Dielectric
Cable type	Tight-buffered
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-VQ(ZN)H
Flame rating	LSZH/FRNC
Reaction to fire	Dca, s1a, d1, a1

Temperature Range

Temperature range, storage	-25 °C - 70 °C
Temperature range, installation	-5 °C - 50 °C
Temperature range, operation	-20 °C - 60 °C

Design Characteristics Cable

Fibre count
4 - 24

Transmission Performance

Multimode

Fibre category	OM1	OM2	OM3	OM4
Fibre code	K	T	T	T
Fibre core diameter	62.5 µm	50 µm	50 µm	50 µm

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Multimode				
Wavelengths	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km	2.8 dB/km / 1.0 dB/km	2.8 dB/km / 1.0 dB/km	2.8 dB/km / 1.0 dB/km
Serial 1 gigabit ethernet	300 MHz*km / 550 MHz*km	750 MHz*km / 600 MHz*km	1100 MHz*km / 600 MHz*km	1100 MHz*km / 600 MHz*km
Serial 10 gigabit ethernet	33 MHz*km / -	150 MHz*km / -	300 MHz*km / 333 MHz*km	550 MHz*km / -
Min. overfilled launch (OFL) bandwidth	200 MHz*km / 600 MHz*km	700 MHz*km / 500 MHz*km	1500 MHz*km / 500 MHz*km	3500 MHz*km / 500 MHz*km
Minimum effective modal bandwidth (EMB)	220 MHz*km / -	950 MHz*km / -	2000 MHz*km / -	4700 MHz*km / -

Transmission Performance

Single-mode	
Fibre category	SM Bend Resistant (G657.A2/B2)
Fibre name	ClearCurve® LBL
Wavelengths	1310 nm / 1550 nm



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