

FREEDM™ Tight Buffer Dielectric Armour Indoor/ Outdoor Cable 24F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca-s1a,d1,a1

CORNING

Part Number:
024T8J-32188E2G

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

Laminated glass yarns

For improved rodent resistance

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

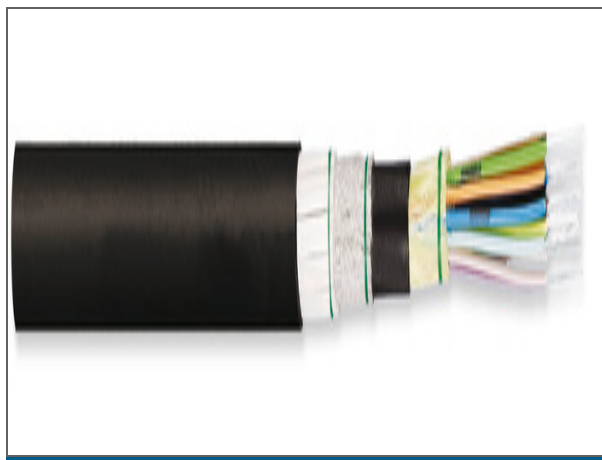
Easy installation in space-constrained areas

TB3 tight-buffered construction

TB3 tight-buffered construction

Flame retardant

LSZH™/FRNC



FREEDM™ Tight Buffer Dielectric Armour Indoor/ Outdoor Cable 24F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca-s1a,d1,a1



Specifications

Mechanical Specifications	
Crush resistance	2000 N/10 cm
Min. bend radius installation	205 mm
Min. bend radius operation	52 mm
Nominal outer diameter	10.3 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)BH 24 OM3CC TB3 0.9 LSZH(TM)/FRNC
Central element	Aramid yarn with swellable elements
Fibre count	24
Number of ripcords	1
Buffer tube diameter	900 mm
Outer jacket colour	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 armouring - Layer 1	Aramid yarn with swellable elements
Tensile strength elements and/or armouring - Layer 2	Aramid yarn with swellable elements
Inner jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Inner jacket nominal thickness	0.5 mm
Tape	Water-swellaible
Tensile strength elements and/or armouring - Layer 3	Laminated glass yarn armour
Tight buffer colour, layer 1	Blue, orange, green, brown, grey, white, red, black, yellow
Tight buffer colour, layer 2	Violet,pink,turquoise,blue*,orange*,green*,brown*,grey*,white*,red*,black*,yellow*,violet*,pink*,Turquoise*

FREEDM™ Tight Buffer Dielectric Armour Indoor/ Outdoor Cable 24F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca-s1a,d1,a1



Cable Design	
Tight buffer type	TB3 (easy strip up to 10 cm)
Flame rating	LSZH™/FRNC

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 armour
Fibre category	50 µm MM (OM3)
Flame rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-VQ(ZN)BH
Application	Direct Buried, Duct, Vertical Riser, General Purpose Horizontal

Ordering Information	
Product Number	024T8J-32188E2G
EAN Code	4056418099538
Maximum delivery length	4000 m
Weight	99 kg/km

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Waterblocking	IEC 60794-1-2 F5

FREEDM™ Tight Buffer Dielectric Armour Indoor/ Outdoor Cable 24F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca-s1a,d1,a1



Standards

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

Optical Characteristics

Fibre code	T
Fibre name	G50/125 ULTRA-BEND 7.5
Fibre Type	Multimode
Fibre core diameter	50 µm
Minimum effective modal bandwidth (EMB)	2000 MHz*km / -
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Min. overfilled launch (OFL) bandwidth	1500 MHz*km / 500 MHz*km
Serial 1 gigabit ethernet	1100 MHz*km / 600 MHz*km
Serial 10 gigabit ethernet	300 MHz*km/ 333 MHz*km
Typical attenuation	2.4 dB/km / 0.8 dB/km
Wavelengths	850 nm / 1300 nm
Induced Attenuation	For 7.5 mm radius < 0.2 db / -
Fibre category	OM3



Corning Optical Communications GmbH & Co. KG • Lelpziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2021 Corning Optical Communications. All rights reserved.