FREEDM® Tight Buffer Dielectric Armor Indoor/ Outdoor Cable 6F G50 MMF ClearCurve® OM3 0,9mm TB3, Cca-s1a,d1,a1

Part Number:
006T8J-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 construction
Requires no grounding or bonding

Laminated glass yarns
Improved rodent resistance

UV- and microbe-resistant
Can be installed in ducts or conduits

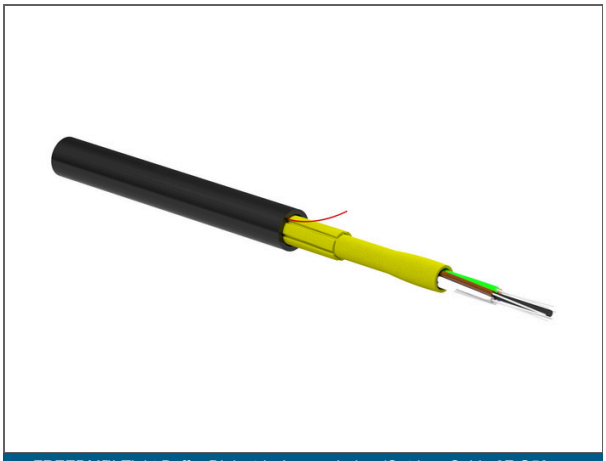
Dry cable core by means of water swellable elements
Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

Small diameter and bend radius
Easy installation in space-constrained areas

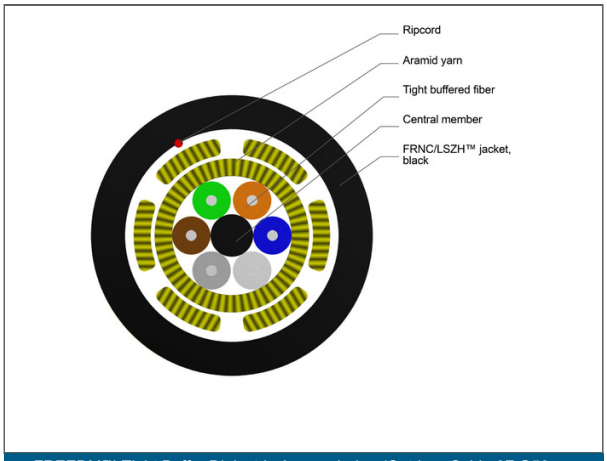
TB3 tight buffered construction
Easy and consistent stripping up to 10 cm

Flame retardant

LSZH™/FRNC



FREEDM™ Tight Buffer Dielectric Armour Indoor/Outdoor Cable 6F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca-s1a,d1,a1



FREEDM™ Tight Buffer Dielectric Armour Indoor/Outdoor Cable 6F G50 MMF ClearCurve® OM3 0.9mm TB3, Cca-s1a,d1,a1

FREEDM® Tight Buffer Dielectric Armor Indoor/ Outdoor Cable 6F G50 MMF ClearCurve® OM3 0,9mm TB3, Cca-s1a,d1,a1

Specifications

General Specifications	
Installation Methods	Direct Buried, Duct, Riser, Horizontal
Cable Type	Tight-Buffered
Environment	Indoor/Outdoor
Product Type	Dielectric armor
Fiber 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
Cable geometry	Round

Standards	
Reaction to Fire	Cca-s1a, d1, a1
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

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

FREEDM® Tight Buffer Dielectric Armor Indoor/ Outdoor Cable 6F G50 MMF ClearCurve® OM3 0,9mm TB3, Cca-s1a,d1,a1

CORNING

Cable Design	
Cable Marking	Meter - Handset - CE 17 EN 50575 Cca-s1a,d1,a1 - Sine - CORNING - Fiber Optic Cable - Year - FREEDM(TM) U-VQ(ZN)BH 6 OM3CC TB3 0.9 LSZH(TM)/FRNC
Central Element	Aramid yarn with swellable elements
Fiber Count	6
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
Tensile Strength Elements and/or Armoring - Layer 1	Aramid Yarn
Tensile Strength Elements and/or Armoring - Layer 2	Laminated glass yarn armor
Tape	Water-swellable
Tensile Strength Elements and/or Armoring	Aramid Yarn
Tensile Strength Elements and/or Armoring - Layer 3	Laminated glass yarn armor
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White
Tight Buffer Type	TB3 (easy strip up to 10 cm)
Flame Rating	LSZH/FRNC

Mechanical Specifications	
Crush Resistance	2000 N/10 cm
Crush Resistance (reversible), Outdoor Cable	2000 N/10 cm
Fire Load	0.68 MJ/m
Max. Tensile Strength for Installation	2000 N
Min. Bend Radius Installation	136 mm
Min. Bend Radius Operation	68 mm
Nominal Outer Diameter	6.8 mm

FREEDM® Tight Buffer Dielectric Armor Indoor/ Outdoor Cable 6F G50 MMF ClearCurve® OM3 0,9mm TB3, Cca-s1a,d1,a1

CORNING

Optical Characteristics	
Fiber Code	T
Performance Option Code	88
Fiber Category	OM3
Fiber Type	Multimode
Fiber Name	50 µm MM (OM3)
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Wavelengths	850 nm / 1300 nm
Fiber Compliance	IEC 60793-2-10
Fiber Core Diameter	50 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Serial 1 Gigabit Ethernet	750 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km

Dimensions	
Cable Weight	42 kg/km
Max. cable length per reel/drum	4000 m

RoHS COMPLIANT

Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
00 800 2676 4641 • FAX: • www.corning.com/opcomm/emea