

FREEDM™ Tight Buffer Dielectric Armour Indoor/ Outdoor Cable 4F G50 MMF ClearCurve® OM4 0.9mm TB3, Cca-s1a,d1,a1



CORNING

Part Number:
004T8J-32198E2G

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

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Flame retardant

LSZH™/FRNC

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Specifications

Mechanical Specifications

| | |
|-------------------------------|--------------|
| Crush resistance | 2000 N/10 cm |
| Min. bend radius installation | 125 mm |
| Min. bend radius operation | 31 mm |
| Nominal outer diameter | 6.2 mm |

Cable Design

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|--|--|
| Cable marking | Meter - Handset - CE 17 EN 50575 Cca-s1a,d1,a1 - Sine - CORNING - Fibre Optic Cable - Year - FREEDM(TM) U-VQ(ZN)BH 4 OM4CC TB3 0.9 LSZH(TM)/FRNC |
| Central element | Swellable elements |
| Fibre count | 4 |
| 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 |
| Tensile strength elements and/or armouring - Layer 2 | Laminated glass yarn armour |
| Tape | Water-swellable |
| Tight buffer colour | Blue, orange, green, brown |
| Tight buffer type | TB3 (easy strip up to 10 cm) |
| Flame rating | LSZH™/FRNC |

Environmental Conditions

| | |
|----------------------------|-----------------|
| Temperature range, storage | -25 °C to 70 °C |
|----------------------------|-----------------|

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Environmental Conditions

| | |
|---------------------------------|-----------------|
| 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 (OM4) |
| 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 | 004T8J-32198E2G |
| EAN Code | 4056418100531 |
| Maximum delivery length | 4000 m |
| Weight | 37 kg/km |

Standards

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

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| 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) | 4700 MHz*km / - |
| Maximum Attenuation | 2.8 dB/km / 1.0 dB/km |
| Min. overfilled launch (OFL) bandwidth | 3500 MHz*km / 500 MHz*km |
| Serial 1 gigabit ethernet | 1100 MHz*km / 600 MHz*km |
| Serial 10 gigabit ethernet | 550 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 | OM4 |



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