

FREEDM™ Gel-Free Indoor/Outdoor Cable 8F G50 MMF ClearCurve® OM3

CORNING

Part Number:
008TSZ-T3180D2H

FREEDM™ gel-free MPC (Multipurpose Cables) can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The innovative dry, gel-free design with water-blocking technology eliminates the need for traditional flooding compound, providing more efficient and craft-friendly cable preparation. The cables can be installed in conduits, ducts and be buried directly in the ground.

Features and Benefits

Dry, gel-free tube

Minimal cleaning, easy cable preparation

All-dielectric cable construction

Requires no grounding or bonding

Laminated swelling glass yarns

Improved rodent resistance and longitudinal water protection

UV- and microbe-resistant

Can be installed in ducts or conduits

Small diameter and bend radius

Easy installation in space-constrained areas

Fibres colour coding to Telcordia-Bellcore

Easy identification of the individual fibres

Waterblocking technology

OSP (outdoor) applications

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures

Flame retardant

LSZH™/FRNC

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Specifications

Mechanical Specifications

| | |
|-----------------------------------|--------|
| Max. tensile strength, long-term | 300 N |
| Max. tensile strength, short-term | 1000 N |
| Min. bend radius installation | 99 mm |
| Min. bend radius operation | 66 mm |
| Nominal outer diameter | 6.6 mm |

Cable Design

| | |
|--|---|
| Fibre count | 8 |
| Number of ripcords | 1 |
| Outer jacket colour | Black |
| Outer jacket material | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material |
| Tensile strength elements and/or armouring - Layer 1 | Dielectric strength members |
| Tensile strength elements and/or armouring - Layer 2 | Water-swellable dielectric strength members |
| Number of tube positions | 1 |
| Fibre colouring | Blue, orange, green, brown, grey, white, red, black |
| Fibres per tube | 8 |

Environmental Conditions

| | |
|---------------------------------|---------------|
| Temperature range, installation | -10 C to 60 C |
| Temperature range, storage | -30 C to 70 C |
| Temperature range, operation | -30 C to 70 C |

General Specifications

| | |
|-------------|----------------|
| Environment | Indoor/Outdoor |
| Cable type | Single Tube |

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General Specifications

| | |
|----------------|---|
| Product type | Dielectric armour |
| Fibre category | 50 µm MM (OM3) |
| Flame rating | LSZH™/FRNC |
| Application | Aerial, Direct Buried, Duct, General Purpose Horizontal |

Ordering Information

| | |
|----------------|-----------------|
| Product Number | 008TSZ-T3180D2H |
| Weight | 42 kg/km |

Standards

| | |
|-------------------------------|--|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
| Flame Test Method | Flame retardant according to IEC 60332-1-2 (single cable), IEC 60332-3-24 (bunch of cables), Reaction to fire according to EN 50575 and EN 13501-6, Low smoke according to IEC 61034, Non-corrosive according to IEC 60754-2 |
| 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 |
| Level of corrosion | Non-corrosive according to IEC 60754-2 |

Optical Characteristics

| | |
|---|-----------------------|
| Fibre code | T |
| Fibre Type | Multimode |
| Performance option code | 80 |
| Fibre core diameter | 50 µm |
| Minimum effective modal bandwidth (EMB) | 2000 MHz*km / - |
| Maximum Attenuation | 3.0 dB/km / 1.0 dB/km |

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Optical Characteristics

| | |
|--|--------------------------|
| Min. overfilled launch (OFL) bandwidth | 1500 MHz*km / 500 MHz*km |
| Serial 1 gigabit ethernet | 1000 MHz*km / 600 MHz*km |
| Serial 10 gigabit ethernet | 300 MHz*km / - |
| Wavelengths | 850 nm / 1300 nm |
| Fibre category | OM3 |



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

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