4F G50 MMF ClearCurve® OM3



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

Needs minimal cleaning, saving about 20 minutes per fan-out (12 fibres), splicing is made faster and more accurate, resulting in reliable, consistently low-loss terminations

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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Standards

Flame Test Method Flame retardant 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 to IEC 61034 Non Corrosive to IEC

60754-2

Waterblocking IEC 60794-1-2F5

Specifications

| General Specifications | |
|------------------------|---|
| Environment | Indoor/Outdoor Universal Cable |
| Application | Aerial, Direct Buried, Duct, General Purpose Horizontal |
| Cable type | Loose Tube |
| Product type | Dielectric armour |
| Flame rating | LSZH™/FRNC |
| Reaction to fire | Dca,s2,d2,a1 |
| Fibre Category | 50 μm MM (OM3) |

| Temperature Range | |
|---------------------------|-----------------|
| Installation and assembly | -10 °C to 60 °C |
| Operation | -30 °C to 70 °C |
| Storage | -30 °C to 70 °C |

| Cable Design | |
|--|---|
| Fibre count | 4 |
| Fibre colouring | Blue, orange, green, brown |
| Fibres per tube | 4 |
| Number of tube positions | 1 |
| 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 ripcords | 1 |



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| Cable Design | |
|-----------------------|---|
| Outer jacket material | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material |
| Outer jacket colour | Black |

| Mechanical Characteristics Cable | |
|-----------------------------------|----------|
| Weight | 42 kg/km |
| Nominal Outer Diameter | 6.6 mm |
| Max. tensile strength, short-term | 1000 N |
| Max. Tensile Strength, Long-Term | 300 N |
| Min. Bend Radius Installation | 99 mm |
| Min. Bend Radius Operation | 66 mm |

| Chemical Characteristics | |
|--------------------------|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |

Fibre Specifications

| Optical Characteristics (cabled) | |
|---|--------------------------|
| Fibre core diameter | 50 μm |
| Fibre Category | OM3 |
| Fibre code | Т |
| Performance Option Code | 80 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum attenuation | 3.0 dB/km / 1.0 dB/km |
| Serial 1 gigabit ethernet | 1000 m / 600 m |
| Serial 10 gigabit ethernet | 300 m / - |
| Min. overfilled launch (OFL) bandwidth | 1500 MHz*km / 500 MHz*km |
| Minimum effective modal bandwidth (EMB) | 2000 MHz*km / - |

^{*} Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50 μ m multimode fibre macrobend loss \leq 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel

- 2) Improved attenuation and bandwidth options available
 3) Bend-insensitive single-mode fibres available on request.
 4) Contact a Coming Customer Care Representative for additional information



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Ordering Information

| Part Number | 004TSZ-T3180D2G |
|---------------------|--|
| Product Description | FREEDM™ Gel-Free Indoor/Outdoor Cable 4F G50 MMF ClearCurve® OM3, Dca,s2,d2,a1 |



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