CORNING

Part Number: 004TSZ-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, gelfree 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 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

Fibers color coding to Telcordia-Bellcore Easy identification of the individual fibers

Waterblocking technology OSP (outdoor) applications

Silicon-free outer jacket The cable jacket is free of harmful to paint structures

Flame retardant LSZHTM/FRNC

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

| U U U U U U U U U U U U U U U U U U U | |
|--|---|
| Fiber Count | 4 |
| Number of Ripcords | 1 |
| Outer Jacket Color | Black |
| Outer Jacket Material | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Tensile Strength Elements and/or Armoring - Layer 2 | Water-swellable dielectric strength members |
| Number of Tube Positions | 1 |
| Fiber Coloring | Blue, Orange, Green, Brown |
| Fibers per Tube | 4 |

| 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

CORNING

| General Specifications | | |
|------------------------|---|--|
| Cable Type | Single Tube | |
| Product Type | Dielectric armor | |
| Fiber Category | 50 µm MM (OM3) | |
| Flame Rating | LSZH™/FRNC | |
| Application | Aerial, Direct Buried, Duct, General Purpose Horizontal | |

| Ordering Information | | |
|----------------------|-----------------|--|
| Product Number | 004TSZ-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 13501-6Low smoke according to IEC 61034Non-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 | | |
|-------------------------|-----------|--|
| Fiber Code | т | |
| Fiber Type | Multimode | |
| Performance Option Code | 80 | |

CORNING

| Optical Characteristics | | |
|---|--------------------------|--|
| Fiber Core Diameter | 50 µm | |
| Minimum Effective Modal Bandwidth (EMB) | 2000 MHz*km / - | |
| Maximum Attenuation | 3.0 dB/km / 1.0 dB/km | |
| 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 | |
| Fiber 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.