

# Fibre Optic Indoor Cables

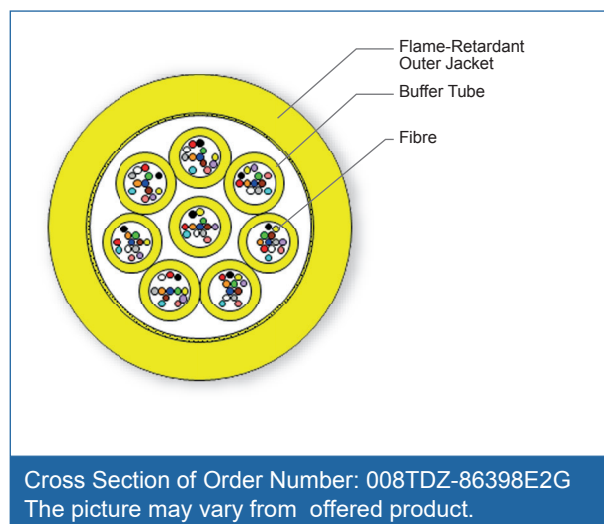
1x8 MMF ClearCurve® OM3 2.0 mm subunits

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Corning MIC® 250 2.0 cables utilize 250 µm color-coded optical fibres surrounded by dielectric strength members with a flexible, flame-retardant outer jacket. These cables are ideal for splicing 250 µm to 250 µm fibres. The small design allows for the cable to be used as an alternative to traditional indoor cable when a smaller diameter is required. The flexible, flame-retardant jacket and non-preferential bend axis allow easy installation in space-constrained areas, and the all-dielectric cable construction requires no grounding or bonding.

*This cable is available in 12 different jacket colours – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The coloured jacket allows for easy visual identification of the cables. The standard jacket colour will be determined by the dominant fibre type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other colour options.*

*\* E is not part of the actual part number it is a designator to show part number is an **internal** EDGE product only.*



## Features and Benefits

### All-dielectric cable construction

Requires no grounding or bonding

### Thin and light cable

Easy handling

### Fibres colour coding to Telcordia-Bellcore

Easy identification of the individual fibres

### Flame retardant

LSZH™/FRNC

## Standards

### Flame Test Method

Flame retardant to IEC  
60332-3C

Non corrosive to IEC  
60754-2 and EN50267

Halogen-free (LSZH™)

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## Specifications

### General Specifications

|                                                       |                |
|-------------------------------------------------------|----------------|
| Environment                                           | Indoor         |
| Cable type                                            | Central Tube   |
| Fibre category                                        | 50 µm MM (OM3) |
| Coding according to EN 60794-1-1 (DIN VDE 0888-100-1) | J-B(ZN)H       |
| Reaction to fire                                      | Cca,s1b,d2,a1  |

### Temperature Range

|                           |                 |
|---------------------------|-----------------|
| Installation and assembly | -5 °C to 50 °C  |
| Operation                 | 0 °C to 70 °C   |
| Storage                   | -25 °C to 70 °C |

### Cable Design

|                                                      |                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------|
| Fibre count                                          | 8                                                                           |
| Fibres per subunit                                   | 8                                                                           |
| Fibre colouring                                      | Blue, Orange, Green, Brown, Grey, White, Red, Black                         |
| Tensile Strength Elements and/or Armouring - Layer 1 | Aramid yarn                                                                 |
| Subunit jacket material                              | Flame-retardant                                                             |
| Subunit colour                                       | Yellow                                                                      |
| Number of subunits                                   | 1                                                                           |
| Number of ripcords                                   | 1                                                                           |
| Buffer tube diameter                                 | 2.0 mm (0.08 in)                                                            |
| Outer jacket material                                | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material |
| Outer jacket nominal thickness                       | 0.9 mm                                                                      |
| Outer jacket colour                                  | Yellow                                                                      |
| Cable marking                                        | According customer requirements                                             |

### Mechanical Characteristics Cable

|                                   |             |
|-----------------------------------|-------------|
| Weight                            | 20.48 kg/km |
| Nominal Outer Diameter            | 4.5 mm      |
| Max. tensile strength, short-term | 660 N       |
| Max. Tensile Strength, Long-Term  | 198 N       |

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## Mechanical Characteristics Cable

|                               |              |
|-------------------------------|--------------|
| Min. Bend Radius Installation | 150 mm       |
| Min. Bend Radius Operation    | 100 mm       |
| Crush resistance (reversible) | 1000 N/10 cm |

## Chemical Characteristics

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

## Fibre Specifications

### Optical Characteristics (cabled)

|                                         |                          |
|-----------------------------------------|--------------------------|
| Fibre name                              | G50/125 ULTRA-BEND 7.5   |
| Fibre code                              | T                        |
| Fibre core diameter                     | 50 µm                    |
| Fibre category                          | OM3                      |
| Wavelengths                             | 850 nm / 1300 nm         |
| Maximum attenuation                     | 2.8 dB/km / 1.0 dB/km    |
| Typical attenuation                     | 2.4 dB/km / 0.8 dB/km    |
| Serial 1 gigabit ethernet               | 1100 m / 600 m           |
| Serial 10 gigabit ethernet              | 550 m / -                |
| Min. overfilled launch (OFL) bandwidth  | 3500 MHz*km / 500 MHz*km |
| Minimum effective modal bandwidth (EMB) | 4700 MHz*km / -          |
| Induced attenuation @ 7.5 mm radius     | < 0.2 dB / -             |

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.  
2) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel  
3) Improved attenuation and bandwidth options available  
4) Bend-insensitive single-mode fibres available on request.  
5) Contact a Corning Customer Care Representative for additional information

## Ordering Information

|                     |                                                  |
|---------------------|--------------------------------------------------|
| Part Number         | 008TDZ-86388E2G                                  |
| Product Description | J-B(ZN)H 1x8 MMF ClearCurve® OM3 2.0 mm subunits |

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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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## Notes



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