

# Central Tube Steel Armour Indoor/Outdoor Cable 1x24 G50 MMF ClearCurve® OM4 CT 5.0

CORNING

**Part Number:**  
**024TEY-13198H2G**

Corning MPC (multipurpose cable) central tube cables with corrugated steel armoring are flame-retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct, direct burial and riser applications.

The central tube cable construction, by isolating the fibers from installations and environmental rigors, provides stable and highly reliable transmission parameters. The fibers are color coded for quick, easy identification.

The cable construction, based on a central buffer tube, is compact, light, flexible and ideal for connections requiring a moderate fiber count.

These cables are designed for installation in conduits, ducts, direct burial and in-house.

## Features and Benefits

### **Waterblocking technology**

OSP (outdoor) applications

### **UV- and microbe-resistant**

Can be installed in ducts or conduits

### **Corrugated steel armoring**

Rodent, mechanical protection and direct buried applications

### **Small diameter and bend radius**

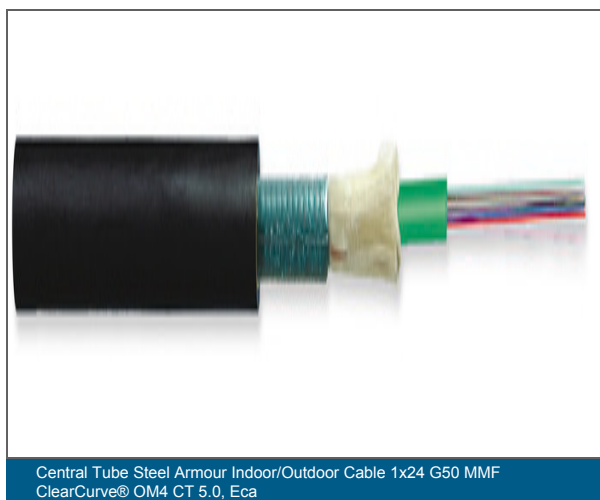
Easy installation in space-constrained areas

### **Fibres colour coding to Telcordia-Bellcore**

Easy identification of the individual fibres

### **Flame retardant**

LSZH™/FRNC



Central Tube Steel Armour Indoor/Outdoor Cable 1x24 G50 MMF  
ClearCurve® OM4 CT 5.0, Eca

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## Specifications

### Mechanical Specifications

|  |              |
|--|--------------|
| Crush resistance                       | 2000 N/10 cm |
| Max. tensile strength for installation | 1000 N       |
| Min. bend radius installation          | 150 mm       |
| Min. bend radius operation             | 110 mm       |
| Nominal outer diameter                 | 7.5 mm       |
| Fire load                              | 1.16 MJ/m    |

### Cable Design

|  |  |
|--|--|
| Cable marking  | Metre - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 24 OM4CC CT 5.0 LSZH(TM)/FRNC |
| Fibre count  | 24   |
| Number of ripcords                                   | 2  |
| Outer jacket colour                                  | Black  |
| Outer jacket material                                | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material  |
| Outer jacket nominal thickness                       | 1.5 mm   |
| Tensile strength elements and/or armouring - Layer 1 | Aramid yarn with swellable elements  |
| Tensile strength elements and/or armouring - Layer 2 | Corrugated steel tape armour with water-swellable tape   |
| Buffer tube diameter                                 | 3 mm   |
| Buffer tube water blocking                           | Thixotropic gel  |
| Fibre colouring                                      | Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise   |

### Environmental Conditions

|                                 |                 |
|---------------------------------|-----------------|
| Temperature range, installation | -5 °C to 50 °C  |
| Temperature range, storage      | -40 °C to 75 °C |
| Temperature range, operation    | -30 °C to 75 °C |

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## Environmental Conditions

|   |                 |
|---|-----------------|
| Temperature range, storage (stored on drum with original packing) | -40 °C to 75 °C |
|---|-----------------|

## General Specifications

|   |   |
|---|---|
| Environment   | Indoor/Outdoor  |
| Cable type  | Single Tube   |
| Product type  | Corrugated steel armour   |
| Fibre category  | 50 µm MM (OM4)  |
| Flame rating  | LSZH™/FRNC  |
| Coding according to EN 60794-1-1 (DIN VDE 0888-100-1) | U-DQ(ZN)(SR)H   |
| Application   | Direct Buried, Duct, Vertical Riser, General Purpose Horizontal |

## Ordering Information

|                         |                 |
|-------------------------|-----------------|
| Product Number          | 024TEY-13198H2G |
| EAN Code                | 4056418782522   |
| Maximum delivery length | 4000 m          |
| Weight                  | 76 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), Reaction to fire according to EN 50575 and EN 13501-6, Low smoke according to IEC 61034 and zero halogen to IEC 60754-1, 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)  |
| Reaction to fire requirements | Reaction to fire according to EN 50575 and EN 13501-6  |
| Smoke density                 | Low Smoke to IEC 61034   |

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## Standards

|                      |  |
|----------------------|--|
| Halogen content test | Zero Halogen to IEC 60754-1            |
| Level of corrosion   | Non-corrosive according to IEC 60754-2 |
| Reaction to fire     | Eca                                    |

## 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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