

# Central Tube Steel Armor Indoor/Outdoor Cable 1x12 E9 SMF-28e+® ITU G652.D CT 3.0

CORNING

**Part Number:**  
**012EEY-13122H2G**

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

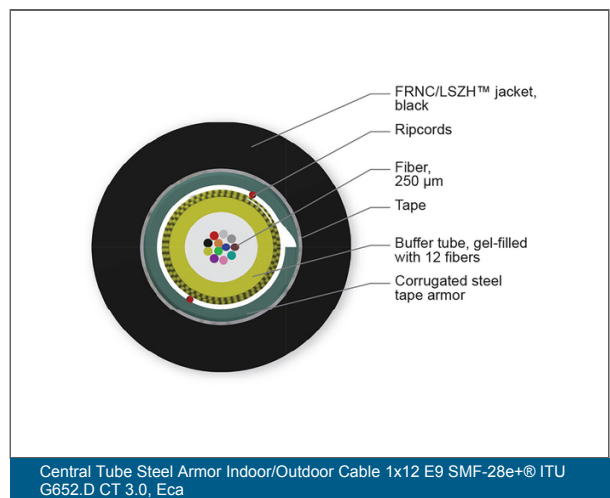
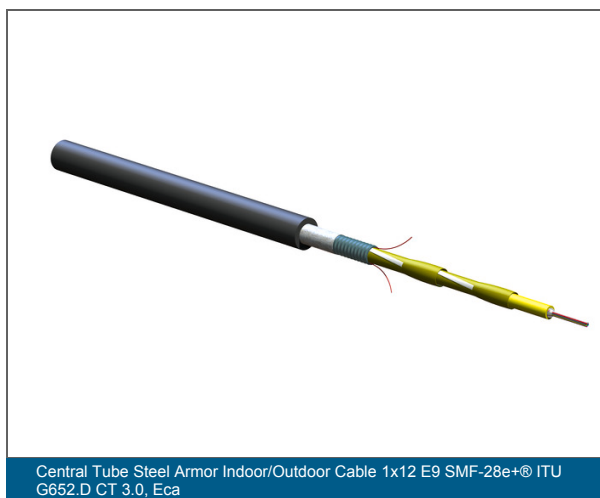
Easy installation in space-constrained areas

### **Fibers color coding to Telcordia-Bellcore**

Easy identification of the individual fibers

### **Flame retardant**

LSZH/FRNC



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## Specifications

### General Specifications

|                                                       |                                                                  |
|-------------------------------------------------------|------------------------------------------------------------------|
| Cable Type                                            | Single Tube                                                      |
| Environment                                           | Indoor/Outdoor                                                   |
| Product Type                                          | Corrugated Steel Armor                                           |
| Fiber Category                                        | Single-mode (OS2)                                                |
| 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, General purpose, Horizontal, Vertical Riser |
| Cable geometry                                        | Round                                                            |

### Standards

|                               |                                                                                |
|-------------------------------|--------------------------------------------------------------------------------|
| Fiber Standards               | TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2 |
| Reaction to Fire              | Eca                                                                            |
| RoHS                          | Free of hazardous substances according to RoHS 2011/65/EU                      |
| Waterblocking                 | IEC 60794-1-22 Method F5B                                                      |
| 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 according to IEC 61034                                               |
| Halogen content test          | Zero Halogen according to IEC 60754-1                                          |
| Level of corrosion            | Non-corrosive according to IEC 60754-2                                         |

### Environmental Conditions

|                                                                   |                                     |
|-------------------------------------------------------------------|-------------------------------------|
| Temperature Range, Installation                                   | -5 °C to 50 °C (23 °F to 122 °F )   |
| Temperature Range, Operation                                      | -30 °C to 75 °C (-22 °F to 167 °F ) |
| Temperature Range, Storage                                        | -40 °C to 75 °C (-40 °F to 167 °F ) |
| Temperature Range, Storage (Stored on drum with original packing) | -40 °C to 75 °C (-40 °F to 167 °F ) |

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## Cable Design

|                                                     |                                                                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Cable Marking                                       | Meter - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 12 E9 CT 3.0 LSZH(TM)/FRNC |
| Fiber Count                                         | 12                                                                                                                          |
| Number of Ripcords                                  | 2                                                                                                                           |
| Outer Jacket Color                                  | 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 Armoring - Layer 1 | Aramid yarn with swellable elements                                                                                         |
| Buffer Tube Diameter                                | 3 mm                                                                                                                        |
| Buffer Tube Water Blocking                          | Thixotropic Gel                                                                                                             |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua                                            |
| Fibers per Tube                                     | 12                                                                                                                          |

## 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       |

## Dimensions

|                                 |          |
|---------------------------------|----------|
| Cable Weight                    | 76 kg/km |
| Max. cable length per reel/drum | 6000 m   |

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

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