

# 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.

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**

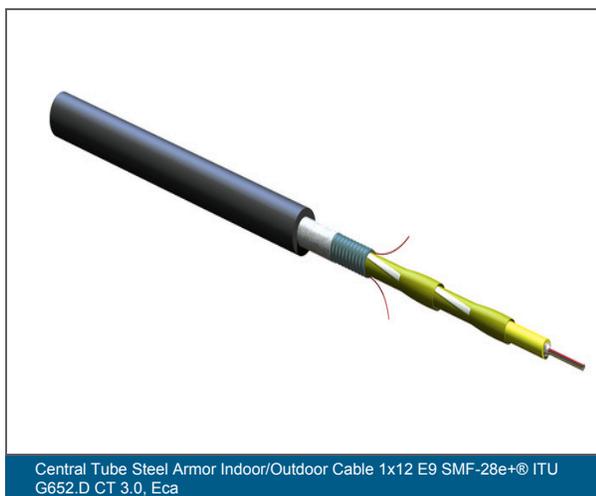
Easy installation in space-constrained areas

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

Easy identification of the individual fibers

### **Flame retardant**

LSZHTM/FRNC



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



## Specifications

### Mechanical Specifications

|                               |              |
|-------------------------------|--------------|
| Crush Resistance              | 2000 N/10 cm |
| 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                                       | 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  |

### 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 |
| Temperature Range, Storage (Stored on drum with original packing) | -40 °C to 75 °C |

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



| General Specifications                                |   |
|---|---|
| Environment   | Indoor/Outdoor  |
| Cable Type  | Single Tube   |
| 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, Vertical Riser, General Purpose Horizontal |

| Ordering Information |                 |
|----------------------|-----------------|
| Product Number       | 012EEY-13122H2G |
| EAN Code             | 4042673603627   |
| 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  |
| Halogen content test          | Zero Halogen to IEC 60754-1   |
| Level of corrosion            | Non-corrosive according to IEC 60754-2  |

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

CORNING

## Standards

|                  |     |
|------------------|-----|
| Reaction to fire | Eca |
|------------------|-----|

## Standards

|                 |  |
|-----------------|--|
| Fiber Standards | TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2 |
|-----------------|--|

## Optical Characteristics

|                            |                                      |
|----------------------------|--------------------------------------|
| Cable cutoff wavelength    | 1260 nm                              |
| Fiber Code                 | E                                    |
| Fiber Name                 | E9/125 SMF28e+®                      |
| Fiber Type                 | Single-mode                          |
| Fiber Core Diameter        | 8.2 µm                               |
| Maximum Attenuation        | 0.36 dB/km / 0.36 dB/km / 0.22 dB/km |
| Serial 1 Gigabit Ethernet  | 5000 MHz*km / - / -                  |
| Serial 10 Gigabit Ethernet | 10000 MHz*km / - / 40000 MHz*km      |
| Wavelengths                | 1310 nm / 1383 nm / 1550 nm          |
| Fiber Category             | OS2                                  |



Corning Optical Communications GmbH & Co. KG • Leipzig Strasse 121 • 10117 Berlin, Germany  
+00 800 2675 4641 • FAX: +49 30 5303 2335 • [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/emea/trademarks](http://www.corning.com/opcomm/emea/trademarks). Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2021 Corning Optical Communications. All rights reserved.