

# Central Tube Steel Armour Indoor/Outdoor Cable 1x24 E9 SMF-28e+® ITU G652.D CT 5.0

CORNING

**Part Number:**  
**024EEY-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**

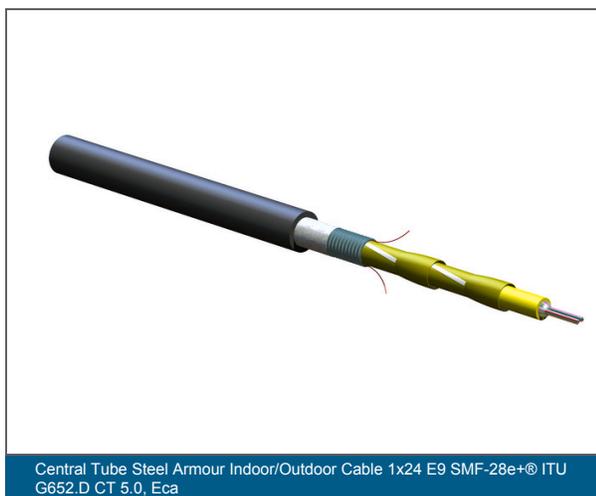
Easy installation in space-constrained areas

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

Easy identification of the individual fibres

### **Flame retardant**

LSZH/FRNC



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## Specifications

General Specifications	
Environment	Indoor/Outdoor
Cable type	Central Tube
Product type	Corrugated steel armour
Fibre 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
Fibre count	24

Standards	
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 to IEC 61034
Halogen content test	Zero Halogen according to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2
Fibre 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

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

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## Environmental Conditions

Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-30 °C to 75 °C
Temperature range, storage	-40 °C to 75 °C
Temperature range, storage (stored on drum with original packing)	-40 °C to 75 °C

## Cable Design

Cable marking	Metre - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 24 E9 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	5 mm
Buffer tube water blocking	Thixotropic gel
Number of fibre bundles	2
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	24

## Mechanical Specifications

Crush resistance	2000 N/10 cm
Max. tensile strength for installation	1500 N
Min. bend radius installation	195 mm
Min. bend radius operation	195 mm

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## Mechanical Specifications

Nominal outer diameter	9.7 mm
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## Optical Characteristics

Cable cutoff wavelength	1260 nm
Fibre code	E
Fibre name	E9/125 SMF28e+®
Fibre Type	Single-mode
Performance option code	22
Fibre 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
Fibre category	OS2

## Dimensions

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



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