

Central Tube Steel Armor Indoor/Outdoor Cable

12F E9 SMF-28e+® ITU G652.D CT 3.0

CORNING

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-Belcore

Easy identification of the individual fibers

Flame retardant

LSZH™/FRNC

Standards

Flame Test Method

Flame retardant to IEC 60332-1-2 (single cable)

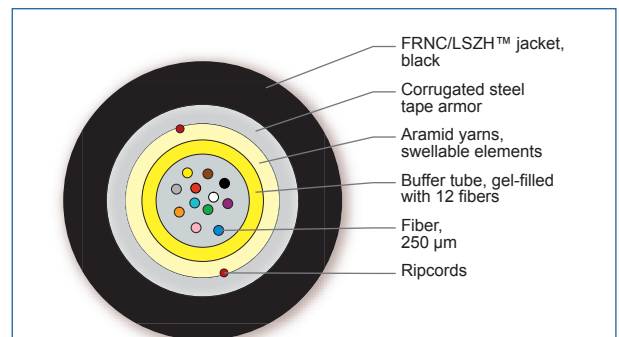
Reaction to fire according to EN 50575 and EN 13501-6

Low Smoke to IEC 61034 and Zero Halogen to IEC 60754-1

Non Corrosive to IEC 60754-2



Part Number: 012EEY-13122A2G



Cross Section of Part Number: 012EEY-13122A2G

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Standards

Waterblocking IEC 60794-1-2 F5

Specifications

General Specifications	
Environment	Indoor/Outdoor
Application	Direct Buried, Duct, Vertical Riser, General Purpose Horizontal
Cable Type	Single Tube
Product Type	Corrugated Steel Armor
Flame Rating	LSZH™/FRNC
Fiber Category	SM (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)(SR)H
Previous Part Number	FWCT01-S0012-U004
Previous coding following DIN VDE 0888-3	A-DQ(ZN)(SR)H
Reaction to fire	Dca,s2,d2,a1

Temperature Range	
Installation	-5 °C to 50 °C
Operation	-20 °C to 60 °C
Storage	-25 °C to 70 °C

Cable Design	
Fiber Count	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Yellow
Buffer Tube Diameter	3 mm
Number of Ripcords	2
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor with dielectric strength elements (aramid yarns) and swellable elements
Outer Jacket Material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer Jacket Color	Black

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Cable Design

Outer Jacket Nominal Thickness	1.5 mm
Cable Marking	Meter - Handset - CE 17 EN 50575 Dca,s2,d2,a1 - Sine - CORNING - Fibre Optic Cable - Year - U-DQ(ZN)(SR)H 12 E9 CT 3.0 LSZH(TM)/FRNC

Mechanical Characteristics Cable

Nominal Outer Diameter	7.5 mm
Weight	76 kg/km
Min. Bend Radius Installation	150 mm
Min. Bend Radius Operation	110 mm
Max. Tensile Strength for Installation	1000 N
Crush Resistance	2000 N/10 cm
Fire Load	1.16 MJ/m

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	E9/125 SMF28e+
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m
Cable cutoff wavelength	1260 nm
Standards in Compliance	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
2) Improved attenuation and bandwidth options available.
3) Bend-insensitive single-mode fibers available on request.
4) Contact a Corning Customer Care Representative for additional information.

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Ordering Information

Part Number	012EEY-13122A2G
Product Description	Central Tube Steel Armor Indoor/Outdoor Cable 12F E9 SMF-28e+® ITU G652.D CT 3.0, Dca,s2,d2,a1
EAN Code	4042673580591

Shipping Information

Maximum Delivery Length	6,000 m
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