

Central Tube Steel Armor Indoor/Outdoor Cable 1x12 G50 MMF ClearCurve® OM4 CT 3.0

CORNING

Part Number:
012TEY-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. 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

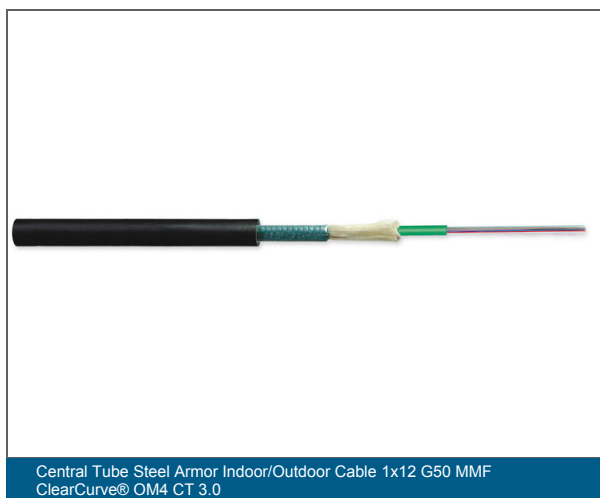
Easy installation in space-constrained areas

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	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, General purpose, Horizontal, Vertical Riser
Cable geometry	Round

Standards

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 - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)(SR)H 12 OM4CC CT 3.0 LSZH™/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

Optical Characteristics

Fiber Code	T
Performance Option Code	98
Fiber Category	OM4
Fiber Type	Multimode
Fiber Name	50 µm MM (OM4)
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Wavelengths	850 nm / 1300 nm

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Optical Characteristics

Fiber Compliance	IEC 60793-2-10
Fiber Core Diameter	50 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km

Dimensions

Cable Weight	76 kg/km
Max. cable length per reel/drum	4000 m



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