

Central Tube Steel Armour Indoor/Outdoor Cable

12F G50 MMF ClearCurve® OM3 CT 3.0

CORNING

Corning MPC (multi-purpose 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 fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The fibres are colour coded for quick, easy identification.

The cable construction, based on a central buffer tube, is very compact, light and 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

Standards

Flame Test Method

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

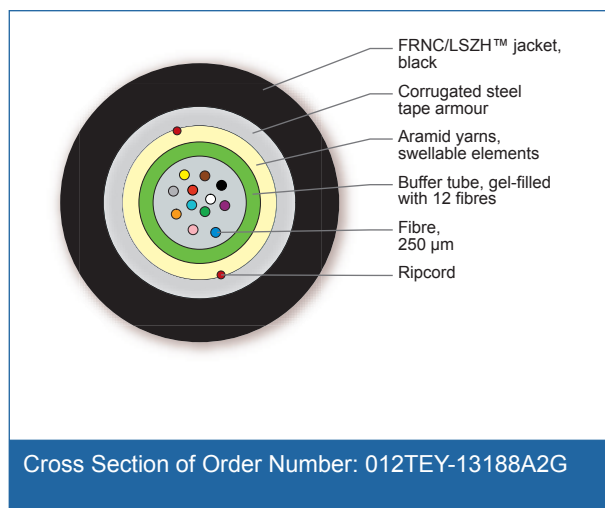
Low Smoke to IEC 61034

Zero Halogen to IEC 60754-1

Non Corrosive to IEC 60754-2

Waterblocking

IEC 60794-1-2 F5



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Specifications

General Specifications	
Environment	Indoor / Outdoor
Application	Direct Buried, Duct, Vertical Riser, General Purpose Horizontal
Cable type	Loose Tube
Product type	Corrugated steel armour
Flame rating	LSZH™/FRNC
Fibre Category	50 µm MM (OM3)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)(SR)H
Previous part number	FWCT01-S0012-H004
Previous coding following DIN VDE 0888-3	A-DQ(ZN)(SR)H

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

Cable design	
Fibre Count	12
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube colour	green
Buffer tube diameter	3 mm
Number of ripcords	2
Tensile Strength Elements and/or Armouring - Layer 1	Corrugated steel tape armour 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 colour	black
Outer jacket nominal thickness	1.5 mm
Cable marking	Meter Handset Sine CORNING Fibre Optic Cable Year U-DQ(ZN)(SR)H 12 OM3CC CT 3.0 LSZH™/FRNC

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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 (reversible)	2000 N/10 cm
Fire Load	1.16 MJ/m

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fibre Specifications

Optical Characteristics (cabled)

Fibre name	G50/125 ULTRA-BEND 7.5
Fibre core diameter	50 µm
Fibre Category	OM3
Fibre code	T
Wavelengths	850 nm / 1300 nm
Maximum attenuation	2.8 dB/km / 1.0 dB/km
Typical attenuation	2.4 dB/km / 0.8 dB/km
Serial 1 gigabit ethernet	1000 m / 600 m
Serial 10 gigabit ethernet	300 m / 333 m
Min. overfilled launch (OFL) bandwidth	1500 MHz*km / 500 MHz*km
Minimum effective modal bandwidth (EMB)	2000 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

- Notes:
- 1) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
 - 2) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
 - 3) Improved attenuation and bandwidth options available
 - 4) Bend-insensitive single-mode fibres available on request.
 - 5) Contact a Corning Customer Care Representative for additional information

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Ordering Information

Part Number	012TEY-13188A2G
Product Description	Central Tube Steel Armour Indoor/Outdoor Cable 12F G50 MMF ClearCurve® OM3 CT 3.0
EAN Code	4042673580638

Shipping Information

Maximum delivery length	4,000 m
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