

# Central Tube MPC Cable with Corrugated Steel Armouring

A-DQ(ZN)(SR)H 2x12G50CC OM2/125 CT

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Corning Cable Systems MPC (Multi Purpose Cable) Central Tube Cables with corrugated steel armouring are flame-retardant, indoor/outdoor cables designed for inter-building 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 in are color-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 armouring

Rodent and mechanical protection

### Small diameter and bend radius

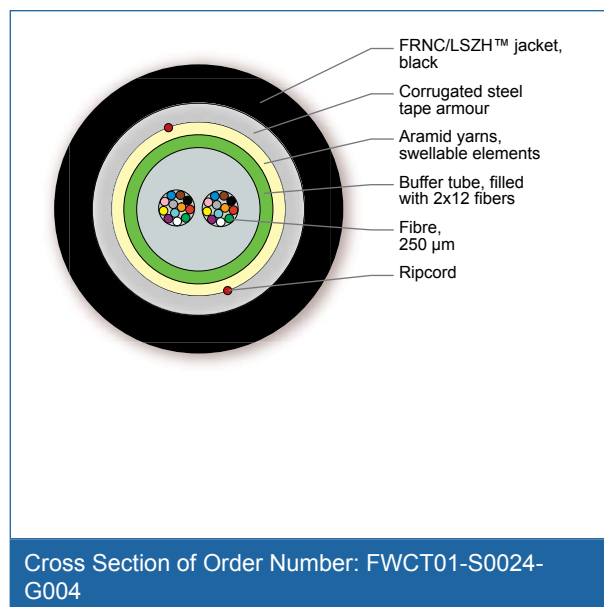
Easy installation in space-constrained areas

### Fibres colour coding to IEC 60304 (Telcordia-Bellcore)

Easy identification of the individual fibres



Part Number: FWCT01-S0024-G004



Cross Section of Order Number: FWCT01-S0024-G004

## Standards

### Flame test method

Flame retardant according to IEC 60332-3-24 and EN 50266-2-4

Non-corrosive according to IEC 60754-2 (FRNC) and EN 50267

Low smoke according to IEC 61034 and EN 50268

Zero Halogen according to IEC 60754-1



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## Standards

Waterblocking

IEC 60794-1-2 F5

## Specifications

### General Specifications

Environment	Indoor / Outdoor
Applications	Direct Buried, Duct, Vertical Riser, General Purpose Horizontal
Cable Type	Loose Tube
Product Type	Corrugated armour
Flame Rating	LSZH/FRNC
Fibre Category	50 µm MM (OM2)

### Temperature Range

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

### Cable Design

Fibre Count	24
Number of fibres per bundle	12
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Number of fibre bundles	2
Fibre bundle colouring	Blue, orange
Buffer tube diameter	5 mm
Buffer tube colour	Green
Number of Ripcords	2
Tensile strength elements / 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

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## Cable Design

Outer jacket nominal thickness	1.5 mm
Cable marking	metre - handset - double sine - CORNING - year, A-DQ(ZN)(SR)H 1x24G50/125 PRETIUM 150 ULTRA-BEND 7.5

## Mechanical Characteristics Cable

Nominal Outer Diameter	9.7 mm
Weight	114 kg/km
Min. Bend Radius Installation	195 mm
Min. Bend Radius Operation	145 mm
Max. tensile strength for installation	1500 N
Crush Resistance	3000 N/10cm
Fire Load	1.91 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 Pretium 150 ULTRA-BEND 7.5
Fibre Core Diameter	50 µm
Fibre Type	Multimode
Fibre Category	OM2
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Typical attenuation	2.4 dB/km / 0.8 dB/km
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -

Notes: 1) 50 µm multimode fibre macrobend loss  $\leq 0.2$  dB at 850 nm for two turns around 7.5 mm radius mandrel  
2) Improved attenuation and bandwidth options available  
3) Bend-insensitive single-mode fibres available on request  
4) Contact a Corning Cable Systems Customer Service Representative for additional information

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## Fibre Specifications

Optical Characteristics (cabled)	
Fibre name	G50/125 Pretium 150 ULTRA-BEND 7.5
Serial 1 Gigabit Ethernet	750 m / 600 m
Serial 10 Gigabit Ethernet	150 m / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -
Standards in Compliance	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA 455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801 Cat. OM2
Fibre Code	G

Notes: 1) 50 µm multimode fibre macrobend loss  $\leq$  0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel  
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## Ordering Information

Order Number	FWCT01-S0024-G004
Product Description	A-DQ(ZN)(SR)H 1x24G50/125 PRETIUM 150 ULTRA-BEND 7.5

## Shipping Information

Maximum delivery length	4000 m
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