

# Central Tube MPC Cable with Corrugated Steel Armouring

A-DQ(ZN)(SR)H 1X12G50CC OM3/125 CT

CORNING

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

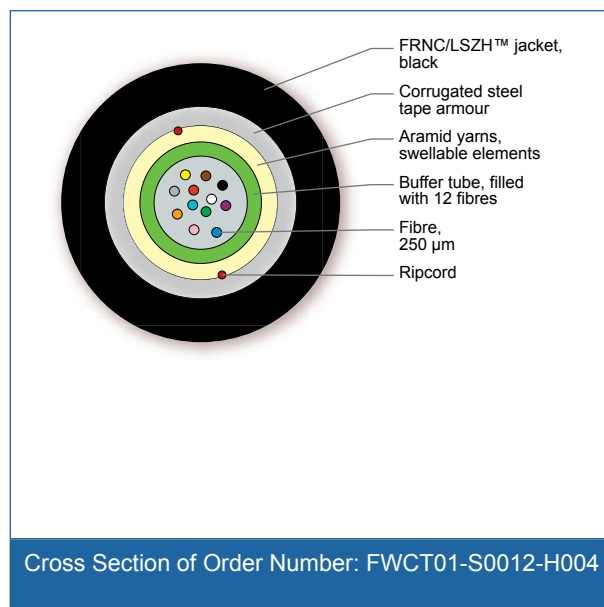
Easy installation in space-constrained areas

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

Easy identification of the individual fibres



Part Number: FWCT01-S0012-H004



Cross Section of Order Number: FWCT01-S0012-H004

## Standards

### Flame test method

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

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



# Central Tube MPC Cable with Corrugated Steel Armouring

A-DQ(ZN)(SR)H 1X12G50CC OM3/125 CT

CORNING

## 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 (OM3)

### 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	12
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube diameter	3 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
Outer jacket nominal thickness	1.5 mm
Cable marking	metre - handset - double sine - CORNING - year, A-DQ(ZN)(SR)H 1x12G50/125 PRETIUM 300 ULTRA-BEND 7.5

# Central Tube MPC Cable with Corrugated Steel Armouring

A-DQ(ZN)(SR)H 1X12G50CC OM3/125 CT

CORNING

## 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/10cm
Fire Load	1.16 MJ/m

## Chemical characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

## Fibre Specifications

### Optical Characteristics (cabled)

Fibre name	G50/125 Pretium 300 ULTRA-BEND 7.5
Fibre Core Diameter	50 µm
Fibre Type	Multimode
Fibre Category	OM3
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	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / 333 m
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 Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions  
3) Improved attenuation and bandwidth options available  
4) Bend-insensitive single-mode fibres available on request  
5) Contact a Corning Cable Systems Customer Service Representative for additional information

# Central Tube MPC Cable with Corrugated Steel Armouring

A-DQ(ZN)(SR)H 1X12G50CC OM3/125 CT

CORNING

## Fibre Specifications

Optical Characteristics (cabled)	
Fibre name	G50/125 Pretium 300 ULTRA-BEND 7.5
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3
Fibre Code	H

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 Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions  
3) Improved attenuation and bandwidth options available  
4) Bend-insensitive single-mode fibres available on request  
5) Contact a Corning Cable Systems Customer Service Representative for additional information

## Ordering Information

Order Number	FWCT01-S0012-H004
Product Description	A-DQ(ZN)(SR)H 1x12G50/125 PRETIUM 300 ULTRA-BEND 7.5

## Shipping Information

Maximum delivery length	4000 m
-------------------------	--------

Corning Cable Systems GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, Germany

TEL: 00800-2676-4641 (00800-CORNING1) · FAX: +49-30-5303-2335 · [www.corning.com/cablesystems/emea](http://www.corning.com/cablesystems/emea)

A complete listing of the trademarks of Corning Cable Systems is available at [www.corning.com/cablesystems/emea/trademarks](http://www.corning.com/cablesystems/emea/trademarks). Corning Cable Systems is ISO 9001 certified. © 2011 Corning Cable Systems. All rights reserved.