



# FREEDM™ Gel-Free Central Tube Indoor/ Outdoor Cable

12F G50 MMF ClearCurve® OM2 CT 3.0

CORNING

## Specifications

General Specifications	
Environment	Indoor / Outdoor
Application	Direct Buried, Duct, Vertical Riser, General Purpose Horizontal
Cable type	Central Tube
Product type	Dielectric armour
Flame rating	LSZH™/FRNC
Fibre category	50 µm MM (OM2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Previous part number	012TSZ-T2B31D20
Previous coding following DIN VDE 0888-3	A-BQ(BN)H

Temperature Range	
Installation and Assembly	-5 °C to 50 °C
Operation	-30 °C to 70 °C
Storage	-30 °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	3.0 mm
Buffer tube colour	green
Tensile Strength Elements and/or Armouring - Layer 1	Laminated glass yarn armour
Number of Ripcords	1
Outer jacket material	Flame-retardant, non-corrosive / low-smoke, zero-halogen (FRNC / LSZH) material
Outer jacket colour	black
Outer Jacket Nominal Thickness	1.2 mm
Cable Marking	Meter Handset Sine CORNING Fibre Optic Cable Year FREEDM™ U-BQ(ZN)BH 12 OM2CC CT 3.0 LSZH™/FRNC

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## Mechanical Characteristics Cable

Nominal Outer Diameter	7.0 mm
Weight	48 kg/km
Min. Bend Radius Installation	140 mm
Min. Bend Radius Operation	110 mm
Max. Tensile Strength for Installation	1000 N
Crush Resistance (reversible)	1400 N/10 cm
Fire Load	0.83 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	OM2
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	750 m / 600 m
Serial 10 Gigabit Ethernet	150 m / -
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

- 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 Customer Care Representative for additional information

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The CORNING logo is displayed in white, uppercase letters on a solid blue square background.

## Ordering Information

Part Number	012TEU-13138D2G
Product Description	FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable 12F G50 MMF ClearCurve® OM2 CT 3.0
EAN Code	4042673561552

## Shipping Information

Maximum delivery length	4,000 m
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