

FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable

4F G50 MMF ClearCurve® OM4 CT 3.0

CORNING

FREEDM™ gel-free MPC (Multipurpose Cables) can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The innovative dry, gel-free design with water-blocking technology eliminates the need for traditional flooding compound, providing more efficient and craft-friendly cable preparation. The cables can be installed in conduits, ducts and be buried directly in the ground.

Features and Benefits

Dry, gel-free tube

Needs minimal cleaning, saving about 20 minutes per fan-out (12 fibres), splicing is made faster and more accurate, resulting in reliable, consistently low-loss terminations

All-dielectric cable construction

Requires no grounding or bonding

Laminated swelling glass yarns

Improved rodent resistance and longitudinal water protection

UV- and microbe-resistant

Can be installed in ducts or conduits

Small diameter and bend radius

Easy installation in space-constrained areas

Fibres colour coding to Telcordia-Bellcore

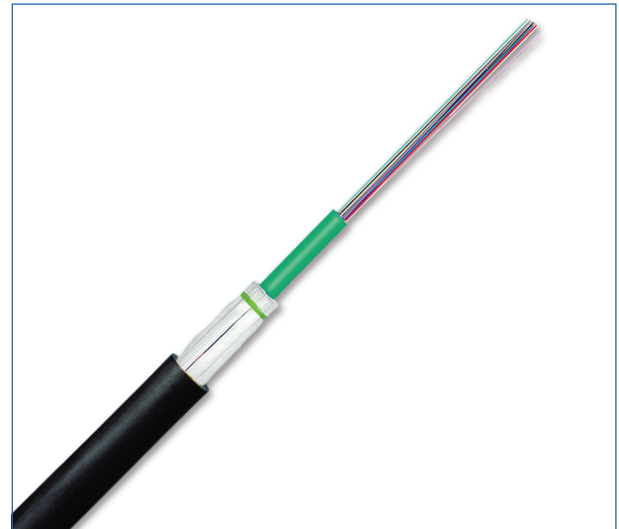
Easy identification of the individual fibres

Waterblocking technology

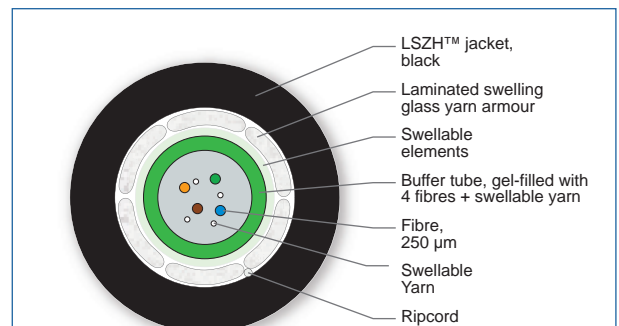
OSP (outdoor) applications

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures



Part Number: 004TEU-13198D2G



Cross Section of Order Number: 004TEU-13198D2G

Standards

Flame Test Method	Flame retardant to IEC 60332-3-24 (bunch)
	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	Central Tube
Product type	Dielectric armour
Flame rating	LSZH™/FRNC
Fibre category	50 µm MM (OM4)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Previous part number	004TSZ-T2B90D20
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	4
Fibre colouring	Blue, orange, green, brown
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 4 OM4CC CT 3.0 LSZH™/FRNC

Mechanical Characteristics Cable	
Nominal Outer Diameter	7.0 mm
Weight	48 kg/km

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Mechanical Characteristics Cable

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	OM4
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	1100 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

- Notes:
- 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium EDGE® systems solutions.
 - 2) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
 - 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	004TEU-13198D2G
Product Description	FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable 4F G50 MMF ClearCurve® OM4 CT 3.0
EAN Code	4042673561521

Shipping Information

Maximum delivery length	4,000 m
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