

FREEDM™ Gel-Free Central Tube Indoor/ Outdoor Cable

8F E9 SMF-28e+® ITU G652.D 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

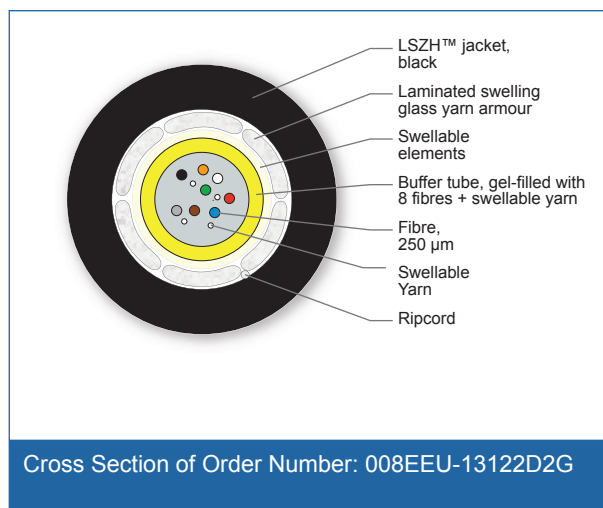
OSP (outdoor) applications

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures

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	SM (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Previous part number	008ESZ-T2B01D20
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	8
Fibre colouring	Blue, orange, green, brown, grey, white, red, black
Buffer tube diameter	3.0 mm
Buffer tube colour	yellow
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 8 E9 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	E9/125 SMF28e+
Fibre core diameter	8.2 µm
Fibre Category	OS2
Fibre code	E
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 gigabit ethernet	5000 m / - / -
Serial 10 gigabit ethernet	10000 m / - / 40000 m
Cable cutoff wavelength	1260 nm
Standards in compliance	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
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

Ordering Information

Part Number	008EEU-13122D2G
Product Description	FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable 8F E9 SMF-28e+® ITU G652.D CT 3.0
EAN Code	4042673589280

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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

Shipping Information

Maximum delivery length	4,000 m
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