



FREEDM™ Gel-Free Central Tube Indoor/ Outdoor Cable

12F E9 SMF-28e+® ITU G652.D 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	SM (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-BQ(ZN)BH
Previous part number	012ESZ-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	12
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
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 12 E9 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	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

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium 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	012EEU-13122D2G
Product Description	FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable 12F E9 SMF-28e+® ITU G652.D CT 3.0
EAN Code	4042673561538

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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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Shipping Information

Maximum delivery length	4,000 m
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Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY

00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea

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