

FREEDM™ Gel-filled Central Tube Dielectric Armour Indoor/Outdoor Cable, U-DQ(ZN)BH 24F MMF ClearCurve® OM3 CT 2.1, Cca-s1a,d0,a1

CORNING

Part Number:
024TEU-93188A2H

FREEDM™ gel-filled MPC (Multipurpose Cables) can be deployed both indoor and outdoor for campus backbone, in conduits, ducts and in-house. Fibres are colour-coded for quick and easy identification. Central buffer tube cable construction makes it compact, light and flexible, ideal for connections requiring a moderate fibre count.

Features and Benefits

All-dielectric cable construction

Requires no grounding or bonding

Small diameter and bend radius

Easy installation in space-constrained areas

UV- and microbe-resistant

Can be installed in ducts or conduits

Laminated glass yarns

For improved rodent resistance

Fibres colour coding to Telcordia-Bellcore

Easy identification of the individual fibres

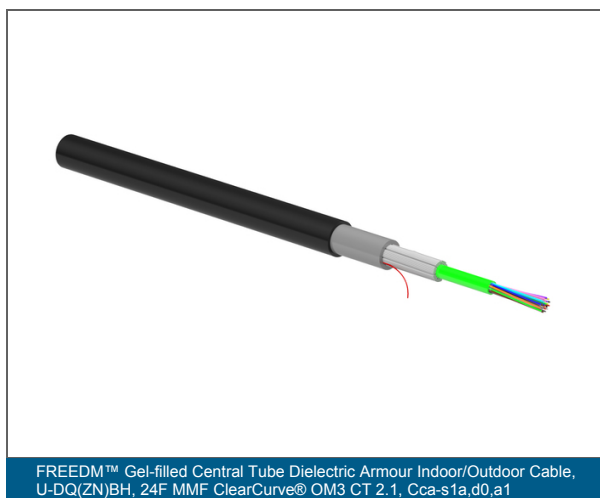
Silicon-free outer jacket

Cable jacket is free of components harmful to paint structures

Flame retardant

LSZH/FRNC

Meets industry standard waterblocking requirements for outdoor cable



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Specifications

General Specifications

Installation Methods	Duct
Cable type	Central Tube
Environment	Indoor/Outdoor
Product type	Dielectric armour
Fibre category	50 µm MM (OM3)
Flame rating	LSZH/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)BH
Cable geometry	Round

Standards

Reaction to Fire	Cca, s1a, d0, a1
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable) and IEC 60332-3-24 (bunch of cables)
Reaction to Fire Requirements	Reaction to fire according to EN 50575 and EN 13501-6
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen according to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

Environmental Conditions

Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-30 °C to 70 °C
Temperature range, storage	-30 °C to 70 °C

Cable Design

Tube Filling Type	Gel-filled
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Cable Design	
Cable marking	Metre - Handset - CE 23 EN 50575 Cca-s1a,d0,a1 - Sinus - CORNING - Fibre Optic Cable - Year - U-DQ(ZN)BH 24 ClearCurve® Multimode OM3 CT 2.1 - G.651.1 - LSZH(TM)/FRNC
Fibre count	24
Number of ripcords	1
Buffer tube colour coding, layer 1	Green
Outer jacket colour	Black
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket nominal thickness	1.2 mm
Number of active tubes	1
Strength members	Glass yarn armouring
Cable marking colour	White
Fibre colouring	1-12: blue, orange, green, brown, slate, white, red, black, yellow, violet, pink, aqua - 13-24: (all with one black ring mark) blue, orange, green, brown, slate, white, red, natural, yellow, violet, pink, aqua
Colour Code Standards	Telcordia
Inner Tube Diameter	2.1 mm

Mechanical Specifications	
Crush resistance	1000 N/10 cm
Max. tensile strength for installation	1500 N
Min. bend radius installation	114 mm
Min. bend radius operation	57 mm

Optical Characteristics	
Fibre code	T
Performance option code	88
Fibre category	OM3
Fibre Type	Multimode

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Optical Characteristics

Fibre name	50 µm MM (OM3)
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Wavelengths	850 nm / 1300 nm
Fibre compliance	IEC 60793-2-10
Fibre core diameter	50 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Serial 1 gigabit ethernet	750 m / 600 m
Serial 10 gigabit ethernet	300 m / -
Minimum effective modal bandwidth (EMB)	2000 MHz*km / -
Min. overfilled launch (OFL) bandwidth	1500 MHz*km / 500 MHz*km

Dimensions

Outer diameter	5.7 mm
Cable Weight	42.5 kg/km
Max. cable length per reel/drum	6000 m



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