FREEDM™ Breakout Tight Buffer Indoor/Outdoor Cable (2.0 mm) 12F E9/125 SMF-28® ULTRA TB3, Cca-s1b,d0,a1

Part Number:
012Z6X-32325E2G

Corning LANscape® multipurpose cables can be deployed both indoor and outdoor for campus and building backbone (riser) cabling as well as for the cabling, between floor distributors.

The tight-buffered construction facilitates easier termination for low-fiber-count applications in the local area network (LAN) and eliminates need for fan-out kits.

Features and Benefits

Waterblocking technology
OSP (outdoor) applications

All-dielectric cable construction
Requires no grounding or bonding

UV- and microbe-resistant
Can be installed in ducts or conduits

Dry cable core by means of water-swellable tape and elements
Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

Laminated glass yarns
For improved rodent resistance

Small diameter and bend radius
Easy installation in space-constrained areas

TB3 tight-buffered construction
Easy and consistent stripping over 10 cm

Flame retardant
LSZH™/FRNC

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Specifications

Mechanical Specifications	
Crush resistance	2000 N/10 cm
Fire load	3.11 MJ/m
Max. tensile strength for installation	2500 N
Min. bend radius installation	260 mm
Min. bend radius operation	195 mm
Nominal outer diameter	13.1 mm

Cable Design	
Cable marking	Metre - Handset - CE 17 EN 50575 Cca-s1b,d0,a1 - Sine - CORNING - Fiber Optic Cable - Year - FREEDM(TM) UT-VQ(ZN)H(ZN)BH 12 E9/125 TB3 2.0 LSZH(TM)/FRNC
Central element	Dielectric with FRNC/LSZH coating
Fibre count	12
Number of ripcords	1
Buffer tube diameter	900 mm
Outer jacket colour	Black
Buffering diameter	900 µm
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, silicon-free, zero-halogen (FRNC/LSZH) material
Central element diameter	5.9 mm
Outer jacket nominal thickness	1.2 mm
Tensile strength elements and/or armouring - Layer 1	Laminated glass yarn armour
Fibres per subunit	1
Number of subunits	12
Subunit colour	Grey with printed subunit number
Subunit diameter	2 mm
Subunit jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material

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Cable Design	
Subunit jacket nominal thickness	0.35 mm
Subunit tensile strengths elements armouring	Aramid yarn strength members
Tape	Water-swellable
Tight buffer colour subunit	Yellow, white, white, white, white, white, white, white, white, white, white, white
Tight buffer type	TB3 (easy strip up to 10 cm)
Flame rating	LSZH™/FRNC

Environmental Conditions	
Temperature range, storage	-25 °C to 70 °C
Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-20 °C to 60 °C

General Specifications	
Environment	Indoor/Outdoor
Cable type	Tight-buffered
Product type	Dielectric armour
Fibre category	SMF-28® Ultra 242 Optical Fibre
Flame rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	UT-VQ(ZN)H(ZN)BH
Application	Duct, Vertical Riser, General Purpose Horizontal

Ordering Information	
Product Number	012Z6X-32325E2G
Maximum delivery length	2000 m
Weight	175 kg/km

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Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Reaction to fire	Cca, s1b, d0, a1

Optical Characteristics	
Cable cutoff wavelength	1260 nm
Fibre code	Z
Fibre name	SMF-28® Ultra 242 Optical Fibre
Fibre Type	Single-mode
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Cladding diameter	125 µm
Dispersion @ 1550 nm	18 nm
Dispersion in the range 1285 to 1330 nm	3.5 nm
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.20 dB/km
Mode-Field Diameter at 1310 nm	9.2 µm
Serial 1 gigabit ethernet	5000 MHz*km / -
Serial 10 gigabit ethernet	10000 MHz*km / 40000 MHz*km
Typical attenuation	0.32 dB/km / 0.32 dB/km / 0.18 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	0.04 ps/(nm*km)
PMD (Polarization Mode Dispersion) maximum individual fibre	0.1 ps/(nm*km)
Coating diameter	242 µm

RoHS COMPLIANT

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