

FREEDM™ Breakout Tight Buffer Indoor/Outdoor Cable (2.0 mm) 4F E9/125 SMF-28® ULTRA TB3, Cca-s1b,d0,a1



CORNING

Part Number:
004Z6X-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 | 1.18 MJ/m |
| Max. tensile strength for installation | 1500 N |
| Min. bend radius installation | 160 mm |
| Min. bend radius operation | 120 mm |
| Nominal outer diameter | 8.2 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 4 E9/125 TB3 2.0 LSZH(TM)/FRNC |
| Central element | Dielectric |
| Fibre count | 4 |
| 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 | 1 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 | 4 |
| 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 |
| Tight buffer type | TB3 (easy strip up to 10 cm) |
| Flame rating | LSZH™/FRNC |

| Environmental Conditions | |
|---------------------------------|-----------------|
| Temperature range, storage | -50 °C to 60 °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 | 004Z6X-32325E2G |
| Maximum delivery length | 2000 m |
| Weight | 66 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 |



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