

Central Tube Dielectric Armour Indoor/Outdoor Cable 1x24 E9/125 SMF-28® ULTRA CT 5.0

CORNING

Part Number:
024ZEU-13120A2G

The central tube cable construction, by isolating the fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The fibres in are color coded for quick, easy identification.

The cable construction, based on a central buffer tube, is very compact, light and flexible, and ideal for connections requiring a moderate fiber count.

These cables are designed for installation in conduits, ducts and in-house.

Features and Benefits

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

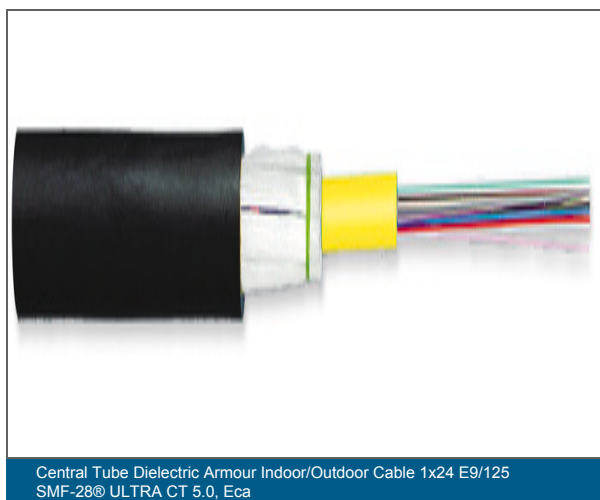
OSP (outdoor) applications

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures

Flame retardant

LSZH™/FRNC



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SMF-28® ULTRA CT 5.0, Eca

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Specifications

Mechanical Specifications

Crush resistance	2500 N/10 cm
Min. bend radius installation	170 mm
Min. bend radius operation	130 mm
Nominal outer diameter	8.6 mm

Cable Design

Cable marking	Meter - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)BH 24 E9ULTRA/125 CT 5.0 LSZH(TM)/FRNC
Fibre count	24
Number of ripcords	1
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
Tensile strength elements and/or armouring - Layer 1	Laminated swelling glass yarn armour
Buffer tube diameter	5 mm
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise, 2 fibre bundles

Environmental Conditions

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

General Specifications

Environment	Indoor/Outdoor
Cable type	Single Tube

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General Specifications

Product type	Dielectric armour
Fibre category	SMF-28® Ultra fibre
Flame rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)BH
Application	Duct, Vertical Riser, General Purpose Horizontal

Ordering Information

Product Number	024ZEU-13120A2G
Weight	73 kg/km

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-1-2 (single cable)Reaction to fire according to EN 50575 and EN 13501-6Low smoke according to IEC 61034 and zero halogen to IEC 60754-1Non-corrosive according to IEC 60754-2
Waterblocking	IEC 60794-1-2 F5
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable)
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 to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

Optical Characteristics

Cable cutoff wavelength	1260 nm
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Optical Characteristics	
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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