

Loose Tube Dielectric Armour Indoor/Outdoor Cable 12x12 E9/125 SMF-28® ULTRA LT 2.3

CORNING

Part Number:
144ZRU-T3120A2G

Corning MPC (multipurpose cable) stranded loose tube cables are flame-retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct and riser applications.

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

The SZ-stranded construction further reduces installation and environmental influences on the transmission parameters and allows mid-span access.

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

Features and Benefits

All-dielectric cable construction

Requires no grounding or bonding

UV- and microbe-resistant

Can be installed in ducts or conduits

Waterblocking technology

OSP (outdoor) applications

Dry core

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

Laminated glass yarns

For improved rodent resistance

Fibres/buffer tubes colour coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures

Flame retardant

LSZH™/FRNC



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Specifications

Mechanical Specifications	
Crush resistance	2000 N/10 cm
Min. bend radius installation	305 mm
Min. bend radius operation	230 mm
Nominal outer diameter	15.3 mm

Cable Design	
Cable marking	Meter Handset Sine CORNING Fiber Optic Cable YearU-DQ(ZN)BH 144 E9ULTRA/125 LT 2.3 LSZH(TM)/FRNC
Central element	Dielectric with FRNC/LSZH coating
Fibre count	144
Buffer tube colour coding	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
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	1.5 mm
Tensile strength elements and/or armouring - Layer 1	Laminated glass yarn armour
Buffer tube colour	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube diameter	2.25 mm
Central element diameter	6.9 mm
Number of active tubes	12
Number of tube positions	12
Tape	Water-swellaable
Cable marking method	Inkjet printing
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12

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Environmental Conditions

Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-30 °C to 70 °C
Temperature range, storage	-40 °C to 70 °C

General Specifications

Environment	Indoor/Outdoor
Cable type	Loose tube
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	144ZRU-T3120A2G
Weight	215 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

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Standards

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
Reaction to fire	Eca

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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