

# MiniXtend® Cable, LT, A-DQ(ZN)2Y 1x12 E9/125 (OS2)



**Part Number:**  
**012EM4-T3122A20**

Corning MiniXtend products are fiber optic stranded loose tube or central tube fully dielectric outdoor cable typically used in Long-Haul, Metro- or Access Networks when limited space is available.

With the dual layer tube design and low friction PE sheath MiniXtend cables are optimized for blowing and best used in mini or micro ducts.

The buffer tubes and fiber in each tube are color-coded for quick and easy identification. MiniXtend are available with Corning Single Mode Fiber SMF 28e+® & SMF 28e® ULTRA (ITU-G 652D) or bend improved ClearCurve® fibers (ITU-G 657).

## Features and Benefits

### Reduced outer cable diameter

High fibre density in microduct systems

### Compact and light

CapEx-optimised installations & upgrades

### Optimised cable stiffness

Long installation lengths

### Fully-dielectric

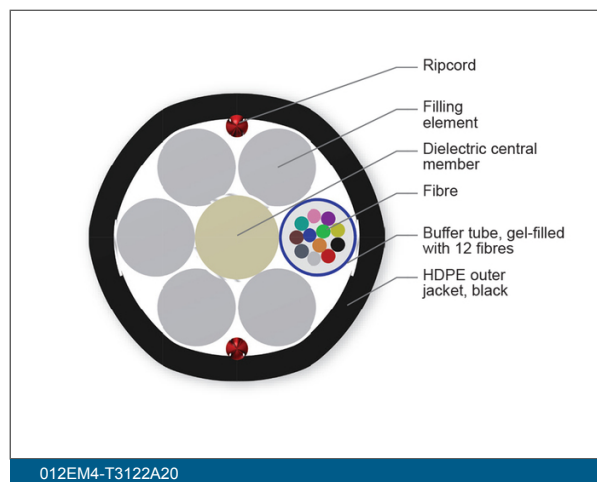
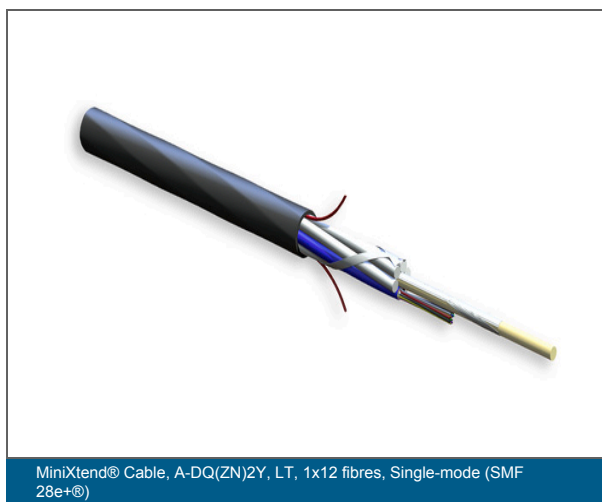
No grounding required

### Colour-coded tubes & fibres

Easy identification of tubes & fibres

### SMF-28e+® according to ITU-T G.652.D

Transmission security, low attenuation and polarization mode dispersion



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CORNING

## Specifications

### Mechanical Specifications

Crush resistance	1000 N/10 cm
Max. tensile strength, short-term	350 N
Min. bend radius installation	106 mm
Min. bend radius operation	79.5 mm
Nominal outer diameter	5.3 mm
Water penetration (0.1bar/24 h)	1 m

### Cable Design

Cable marking	Metre - Handset - Sine - CORNING - Year -MINIXTEND (R) CABLE 1X12 E9/125 LT 1.4
Central element	Dielectric
Fibre count	12
Number of ripcords	2
Outer jacket colour	Black
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket nominal thickness	0.5 mm
Buffer tube diameter	1.4 mm
Number of active tubes	1
Number of filling elements	5
Number of tube positions	6
Tape	Water-swellable
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12

### Environmental Conditions

Temperature range, installation	-5 °C to 40 °C
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## Environmental Conditions

Temperature range, storage	-30 °C to 70 °C
Temperature range, operation	-30 °C to 70 °C

## General Specifications

Environment	Outdoor
Cable type	Stranded Loose Tube
Product type	Dielectric
Fibre category	Single-mode (OS2)
Application	Miniduct

## Ordering Information

Product Number	012EM4-T3122A20
EAN Code	4042673604754
Maximum delivery length	4000 m
Weight	23 kg/km

## Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Standards

Fibre Standards	TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2 Cat. OS2, IEC 60794-3:2001, Section 5.5, Method 1 (m=20, Q=0.01%)
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## Optical Characteristics

Cable cutoff wavelength	1260 nm
Fibre code	E

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Optical Characteristics	
Fibre name	E9/125 SMF28e+®
Fibre Type	Single-mode
Performance option code	22
Fibre core diameter	8.2 µm
Dispersion @ 1550 nm	18 nm
Dispersion in the range 1285 to 1330 nm	3.5 nm
Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Mode-Field Diameter at 1310 nm	9.2 µm -0.4 / +0µm
Mode-Field Diameter at 1550 nm	10.4 µm -0.5 / +0µm
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	0.06 ps/(nm*km)
Fibre category	OS2



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