

# Outdoor Cable, Double Corrugated Steel Armouring Double Sheath, A-DQ(ZN)(SR)2Y(SR)2Y

2x8 E9 SMF-28e+® ITU G652.D LT 2.3



Corning stranded loose tube cables with corrugated steel armouring are designed for outdoor use for campus, city and intercity backbones in duct and direct burial installations.

The loose tube cable construction, by isolating the fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The buffer tubes and fibres in each tube are colour 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 for direct burial.

## Features and Benefits

### **Waterblocking technology**

100% water immersion possible

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### **Corrugated steel armouring**

Rodent, mechanical protection and direct buried applications

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### **Microbe resistant**

Can be installed in ducts or conduits

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### **Dry cable core by means of water swellable elements**

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

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### **Fibres/buffer tubes colour coded to Telcordia-Bellcore**

Easy identification of the individual tubes and fibres

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### **SZ-stranded, loose tube design**

Isolates fibres from installation and environmental rigors and facilitates mid-span access

## Standards

**Waterblocking**

IEC 60794-1-2 F5

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## Specifications

General Specifications	
Environment	Outdoor
Application	Duct, Direct Buried
Cable type	Loose Tube
Product type	Corrugated steel armour
Fibre category	SM (OS2)

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-30 °C to 70 °C
Storage	-40 °C to 70 °C

Cable Design	
Central element	Jacketed Glass reinforced Plastic (Dielectric)
Central element diameter	2.5 mm
Fibre count	16
Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black
Fibres per tube	8
Number of tube positions	6
Number of active tubes	2
Number of filling elements	4
Buffer tube colour coding	Blue, Orange
Buffer tube diameter	2.25 mm
Tape, Layer 1	Water-swellaible
Inner jacket material	Low Density Polyethylene (LDPE)
Inner jacket nominal thickness	1.5 mm
Tape, Layer 2	Water-swellaible
Number of ripcords	4
Tensile strength elements and/or armouring - Layer 2	Corrugated steel tape armour
Outer jacket material	Low Density Polyethylene (LDPE)
Outer jacket colour	Black
Outer jacket nominal thickness	1.5 mm
Cable marking	Metre - Handset - Double Sine - CORNING - Year - A-DQ(ZN) (SR)2Y(SR)2Y 2x8 E9/125

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## Mechanical Characteristics Cable

Nominal Outer Diameter	14 mm
Weight	255 kg/km
Min. Bend Radius Installation	315 mm
Min. Bend Radius Operation	275 mm
Max. tensile strength for installation	3000 N
Crush resistance (short term - reversible)	2700 N/10 cm
Water penetration (0.1bar/24 h)	≤ 1 m

## Chemical Characteristics

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

### Optical Characteristics (cabled)

Fibre name	E9/125 SMF28e+®
Fibre core diameter	8.2 µm
Fibre category	OS2
Fibre code	E
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 gigabit ethernet	5000 m / - / -
Serial 10 gigabit ethernet	10000 m / - / 40000 m
Cable cutoff wavelength	1260 nm
Standards in compliance	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

2) Improved attenuation and bandwidth options available

3) Bend-insensitive single-mode fibres available on request.

4) Contact a Corning Customer Care Representative for additional information

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## Ordering Information

Part Number	016ERD-83122P20
Product Description	Outdoor Cable with Corrugated Steel Armouring double sheet A-DQ(ZN)(SR)2Y(SR)2Y 2x8 E9 SMF-28e+® ITU G652.D LT 2.3

## Shipping Information

Maximum delivery length	6,000 m
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