

ALTOS® Loose Tube Steel Armour Outdoor Cable

2x12 E9 SMF-28e+® ULTRA ITU G652.D/G657.A1

CORNING

Corning stranded loose tube cables with smooth steel armouring is 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

OSP (outdoor) applications

Corrugated steel armouring

Rodent, mechanical protection and direct buried applications

UV- and microbe-resistant

Can be installed in ducts or conduits

Dry cable core by means of water swellable elements

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

Fibres/buffer tubes colour coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

SZ-stranded, loose tube design

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



Part Number: 024ZRC-T3120A20

Standards

Waterblocking

IEC 60794-1-2 F5

ALTOS® Loose Tube Steel Armour Outdoor Cable

2x12 E9 SMF-28e+® ULTRA ITU G652.D/G657.A1

CORNING

Specifications

General Specifications

Environment	Outdoor
Application	Duct, Direct Buried
Cable type	Loose Tube
Product type	Corrugated steel armour
Fibre Category	SMF-28® Ultra fibre
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)(SR)2Y
Previous part number	-
Previous coding following DIN VDE 0888-3	A-DQ(ZN)(SR)2Y

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	Dielectric
Central Element Diameter	2.5 mm
Fibre Count	6
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua
Fibres per tube	6
Number of Tube Positions	6
Number of Active Tubes	2
Buffer tube colour coding	Blue
Buffer tube diameter	2.25 mm
Number of filling elements	4
Tape	Water-swellable
Number of ripcords	2
Tensile Strength Elements and/or Armouring - Layer 1	Corrugated steel tape armour
Outer jacket material	Linear Low Density Polyethylene (LLDPE)
Outer jacket colour	black
Outer jacket nominal thickness	1.5 mm
Cable marking	Metre - Handset - Sine - CORNING - Year - ALTOS (R) A-DQ(ZN)(SR)2Y 2x12 E9U LT 2.3

ALTOS® Loose Tube Steel Armour Outdoor Cable

2x12 E9 SMF-28e+® ULTRA ITU G652.D/G657.A1

CORNING

Mechanical Characteristics Cable

Nominal Outer Diameter	11.6 mm
Weight	127 kg/km
Min. Bend Radius Installation	230 mm
Min. Bend Radius Operation	175 mm
Max. tensile strength for installation	2700 N
Crush resistance (reversible)	3000 N/10 cm

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

Fibre Specifications

Optical Characteristics (cabled)

Fibre name	E9/125 SMF-28® Ultra
Fibre core diameter	8.2 µm
Fibre code	Z
Wavelengths	1310 nm / 1550 nm
Maximum attenuation	0.34 dB/km / 0.20 dB/km
Typical attenuation	0.32 dB/km / 0.18 dB/km
Serial 1 gigabit ethernet	5000 m / -
Serial 10 gigabit ethernet	10000 m / 40000 m
Cable cutoff wavelength	1260 nm
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

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

ALTOS® Loose Tube Steel Armour Outdoor Cable

2x12 E9 SMF-28e+® ULTRA ITU G652.D/G657.A1

CORNING

Ordering Information

Part Number	024ZRC-T3120A20
Product Description	ALTOS® Loose Tube Steel Armour Outdoor Cable 2x12 E9 SMF-28e+® ULTRA ITU G652.D/G657.A1
EAN Code	-

Shipping Information

Maximum delivery length	6,000 m
-------------------------	---------



Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY
00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2016 Corning Optical Communications. All rights reserved.