

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

1x12 G50 MMF ClearCurve® OM4 LT 2.3

CORNING

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

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

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	50 µm MM (OM4)

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	Glass reinforced Plastic (Dielectric)
Central element diameter	2.5 mm
Fibre count	12
Fibre colouring	Blue
Fibres per tube	12
Number of tube positions	6
Number of active tubes	1
Buffer tube colour coding	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua
Buffer tube diameter	2.25 mm
Number of filling elements	5
Tape, Layer 1	Water-swellaable
Tensile Strength Elements and/or Armouring - Layer 1	Corrugated steel tape armour
Inner jacket material	High Density Polyethylene (HDPE)
Inner jacket nominal thickness	1.5 mm
Tape, Layer 2	Water-swellaable
Number of ripcords	4
Tensile strength elements and/or armouring - Layer 2	Corrugated steel tape armour
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket colour	Black

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6x2 G50 MMF ClearCurve® OM3 LT 2.3

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Cable Design

Outer jacket nominal thickness	1.5 mm
Cable marking	Metre - Handset - Sine - CORNING - Year - A-DQ(ZN)(SR)2Y(SR)2Y 1x22 OM4CC LT 2.3

Mechanical Characteristics Cable

Nominal Outer Diameter	15.7 mm
Weight	253 kg/km
Min. Bend Radius Installation	315 mm
Min. Bend Radius Operation	275 mm
Max. tensile strength for installation	2700 N
Crush resistance (reversible)	4000 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	G50/125 ULTRA-BEND 7.5
Fibre code	T
Fibre core diameter	50 µm
Fibre category	OM4
Wavelengths	850 nm / 1300 nm
Maximum attenuation	2.8 dB/km / 1.0 dB/km
Typical attenuation	2.4 dB/km / 0.8 dB/km
Serial 1 gigabit ethernet	1000 m / 600 m
Serial 10 gigabit ethernet	300 m / 333 m
Min. overfilled launch (OFL) bandwidth	1500 MHz*km / 500 MHz*km
Minimum effective modal bandwidth (EMB)	2000 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

Notes: 1) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
3) Improved attenuation and bandwidth options available
4) Bend-insensitive single-mode fibres available on request.
5) Contact a Corning Customer Care Representative for additional information

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Ordering Information

Part Number	012TRD-T3198P20
Product Description	Outdoor Cable with Corrugated Steel Armouring double sheet A-DQ(ZN)(SR)2Y(SR)2Y 1x12 G50 MMF ClearCurve® OM4 LT 2.3

Shipping Information

Maximum delivery length	6,000 m
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