

# Loose Tube Dielectric Armour Indoor/Outdoor Cable 12x12 G50 MMF ClearCurve® OM4 LT 2.3

CORNING

**Part Number:**  
**144TRU-T3198A2G**

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 - CE 17 EN 50575 Eca - Sine - CORNING - Fiber Optic Cable - Year - U-DQ(ZN)BH 144 OM4CC 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-swellable
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	50 µm MM (OM4)
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	144TRU-T3198A2G
EAN Code	4042673376590
Maximum delivery length	4000 m
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)

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## Standards

Reaction to fire requirements	Reaction to fire according to EN 50575 and EN 13501-6
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

Fibre code	T
Fibre name	G50/125 ULTRA-BEND 7.5
Fibre Type	Multimode
Fibre core diameter	50 µm
Minimum effective modal bandwidth (EMB)	4700 MHz*km / -
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Min. overfilled launch (OFL) bandwidth	3500 MHz*km / 500 MHz*km
Serial 1 gigabit ethernet	1100 MHz*km / 600 MHz*km
Serial 10 gigabit ethernet	550 MHz*km / -
Typical attenuation	2.4 dB/km / 0.8 dB/km
Wavelengths	850 nm / 1300 nm
Induced Attenuation	For 7.5 mm radius < 0.2 db / -
Fibre category	OM4

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The CORNING logo is a dark blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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