

# Central Tube Dielectric Armour Indoor/ Outdoor Cable

1x24 G50 MMF ClearCurve® OM2 CT 5.0

CORNING

The central tube cable construction, by isolating the fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The fibres in are colour coded for quick, easy identification.

The cable construction, based on a central buffer tube, is very compact, light and flexible, and ideal for connections requiring a moderate fiber count.

These cables are designed for installation in conduits, ducts and in-house.

## Features and Benefits

### All-dielectric cable construction

Requires no grounding or bonding

### Laminated swelling glass yarns

Improved rodent resistance and longitudinal water protection

### UV- and microbe-resistant

Can be installed in ducts or conduits

### Small diameter and bend radius

Easy installation in space-constrained areas

### Fibres colour coding to Telcordia-Bellcore

Easy identification of the individual fibres

### Waterblocking technology

OSP (outdoor) applications

### Silicon-free outer jacket

The cable jacket is free of harmful to paint structures

## Standards

### Flame Test Method

Flame retardant to IEC  
60332-1-2 (single cable)

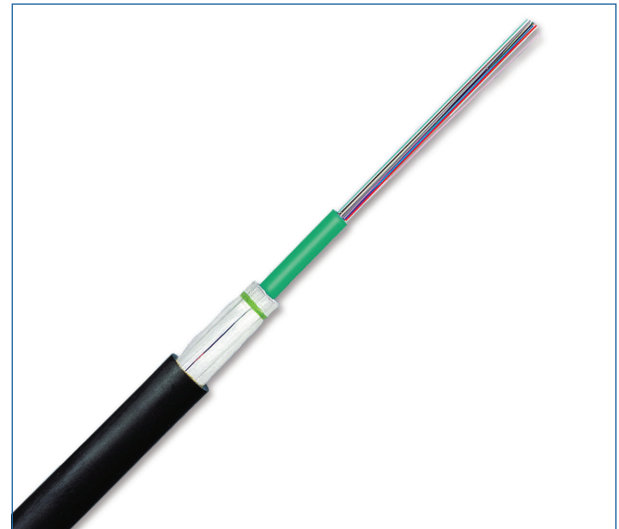
Low Smoke to IEC 61034

Zero Halogen to IEC  
60754-1

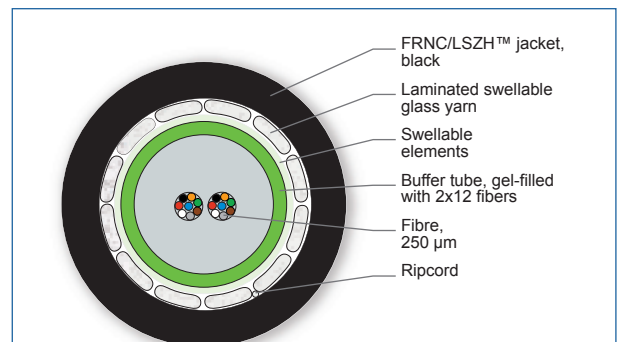
Non Corrosive to IEC  
60754-2

### Waterblocking

IEC 60794-1-2 F5



Part Number: 024TEU-13138A2G



Cross Section of Order Number: 024TEU-13138A2G

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## Specifications

General Specifications	
Environment	Indoor / Outdoor
Application	Duct, Vertical Riser, General Purpose Horizontal
Cable type	Loose Tube
Product type	Dielectric armour
Flame rating	LSZH™/FRNC
Fibre Category	50 µm MM (OM2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)BH
Previous part number	LCXLM1-K0024-G700
Previous coding following DIN VDE 0888-3	A-DQ(BN)H
Product category	Core product

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-20 °C to 60 °C
Storage	-25 °C to 70 °C

Cable design	
Fibre Count	24
Number of fibres per bundle	12
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Number of fibre bundles	2
Fibre bundle colouring	Blue, orange
Buffer tube diameter	5 mm
Buffer tube colour	green
Tensile Strength Elements and/or Armouring - Layer 1	Laminated swelling glass yarn armour
Number of ripcords	1
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket colour	black
Outer jacket nominal thickness	1.2 mm
Cable marking	Meter Handset Sine CORNING Fibre Optic Cable Year U-DQ(ZN)BH 24 OM2CC CT 5.0 LSZH™/ FRNC

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## Mechanical Characteristics Cable

Nominal Outer Diameter	8.6 mm
Weight	73 kg/km
Min. Bend Radius Installation	170 mm
Min. Bend Radius Operation	130 mm
Max. tensile strength for installation	1500 N
Crush resistance (reversible)	2500 N/10 cm
Fire Load	1.64 MJ/m

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fibre Specifications

### Optical Characteristics (cabled)

Fibre name	G50/125 ULTRA-BEND 7.5
Fibre core diameter	50 µm
Fibre Category	OM2
Fibre code	T
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	750 m / 600 m
Serial 10 gigabit ethernet	150 m / -
Min. overfilled launch (OFL) bandwidth	700 MHz*km / 500 MHz*km
Minimum effective modal bandwidth (EMB)	950 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

- Notes:
- 1) 50 µm multimode fibre macrobend loss  $\leq 0.2$  dB at 850 nm for two turns around 7.5 mm radius mandrel
  - 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	024TEU-13138A2G
Product Description	Central Tube Dielectric Armour Indoor/Outdoor Cable 1x24 G50 MMF ClearCurve® OM2 CT 5.0
EAN Code	4042673579601

## Shipping Information

Maximum delivery length	4,000 m
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