

Loose Tube Dielectric Armour Indoor/Outdoor Cable

4x12 G50 MMF ClearCurve® OM4 LT 2.3

CORNING

Corning MPC (multi-purpose 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 colour coded for quick, 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 cable core by means of water-swellable tape and elements

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

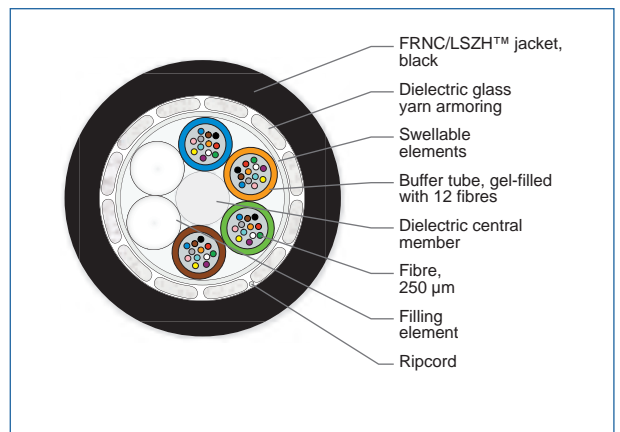
Easy identification of the individual tubes and fibres

Silicon-free outer jacket

The cable jacket is free of harmful to paint structures



Part Number: 048TRU-T3198A2G



Cross Section of Order Number: 048TRU-T3198A2G

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Standards

| | |
|-------------------|--|
| Flame Test Method | Zero Halogen to IEC 60754-1 |
| | Non Corrosive to IEC 60754-2 |
| | Low Smoke to IEC 61034 |
| | Flame retardant to IEC 60332-3-24 (bunch cable test) |
| Waterblocking | IEC 60794-1-2 F5 |

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 (OM4) |
| Coding according to EN 60794-1-1 (DIN VDE 0888-100-1) | U-DQ(ZN)BH |
| Previous part number | LCXLM1-K4048-K700 |
| Previous coding following DIN VDE 0888-3 | A-DQ(BN)H |
| Product category | Core product / Fastship |

| 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 | 48 |
| Fibres per tube | 12 |

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Cable Design

| | |
|--|--|
| Fibre colouring | Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise |
| Buffer tube diameter | 2.25 mm |
| Number of Tube Positions | 6 |
| Number of filling elements | 2 |
| Filling element colour | Natural |
| Number of Active Tubes | 4 |
| Buffer tube colour coding | Blue, orange, green, brown |
| Tape | Water-swellaable |
| Tensile Strength Elements and/or Armouring - Layer 1 | Laminated 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 | 1.5 mm |
| Cable marking | Meter Handset Sine CORNING Fibre Optic Cable Year U-DQ(ZN)BH 48 OM4CC LT 2.3 LSZH™/ FRNC |

Mechanical Characteristics Cable

| | |
|--|--------------|
| Nominal Outer Diameter | 10.9 mm |
| Weight | 117 kg/km |
| Min. Bend Radius Installation | 215 mm |
| Min. Bend Radius Operation | 160 mm |
| Max. tensile strength for installation | 4000 N |
| Crush resistance (reversible) | 2000 N/10 cm |
| Fire Load | 2.4 MJ/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 core diameter | 50 µm |
| Fibre Category | OM4 |
| 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 | 1100 m / 600 m |
| Serial 10 gigabit ethernet | 550 m / - |
| Min. overfilled launch (OFL) bandwidth | 3500 MHz*km / 500 MHz*km |
| Minimum effective modal bandwidth (EMB) | 4700 MHz*km / - |
| Induced attenuation @ 7.5 mm radius | < 0.2 dB / - |

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
2) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
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

Ordering Information

| | |
|---------------------|---|
| Part Number | 048TRU-T3198A2G |
| Product Description | Loose Tube Dielectric Armour Indoor/Outdoor Cable 4x12 G50 MMF ClearCurve® OM4 LT 2.3 |
| EAN Code | 4042673339267 |

Shipping Information

| | |
|-------------------------|---------|
| Maximum delivery length | 4,000 m |
|-------------------------|---------|



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