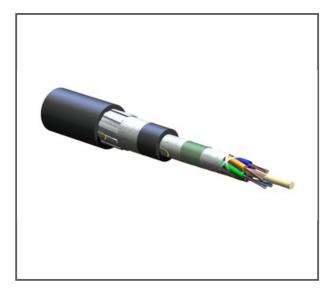
CORNING

Part Number: 048EUL-T3601D2M

Corning dielectric, tray-rated, mining and petrochemical fiber optic cables are designed for indoor and outdoor use in mining and petrochemical backbones (aerial and duct) and horizontal intrabuilding and tunnel backbones where limited-smoke and zero-halogen requirements exist. The loose tube cable construction, pioneered by Corning, places fibers in buffer tubes and provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. The SZ-stranded. loose tube design isolates fibers from installation and environmental rigors and allows for easy mid-span access. The design also provides high-fiber density within a given cable diameter, allowing flexibility to suit many system designs.

The cable's innovative waterblocking technology eliminates the need for traditional flooding compound and allows more efficient and craftfriendly cable preparation. The specially formulated black jacket is UV-resistant and has a flame-retardant LSZH inner and outer layer. These extra-tough double jackets resist hazards found in mines and petrochemical complexes, making this cable ideal for any harsh environment requiring a more robust cable and suitable for direct buried applications. Alldielectric construction provides tensile strength and eliminates grounding concerns. With an extended storage and operating temperature range of -50° to +75°C (-58° to +167°F), the cable is listed OFN-LS and CSA FT4-ST 1 for up to 288 fibers and cable tray-rated per CSA C22.2 No. 230 and No. 232.



Features and Benefits

Loose tube construction

Stable and highly reliable transmission parameters

Waterblocking technology

Allows efficient and craft-friendly cable preparation

Extra tough double jackets Ideal for harsh environments

Listed MSHA 30 CFR Pt 7-K

Mining Safety and Health Administration (MSHA) approved

Common installations

Outdoor aerial and duct; indoor general purpose horizontal according to CSA C22.2

Specifications

| Mechanical Specifications | |
|-----------------------------------|--------------------|
| Impact Resistance | 11.8 Nm |
| Max. Tensile Strength, Long-Term | 1500 N |
| Max. Tensile Strength, Short-Term | 4500 N |
| Min. Bend Radius Installation | 264 mm (10.39 in) |
| Min. Bend Radius Operation | 176 mm (6.93 in) |
| Nominal Outer Diameter | 17.6 mm (0.69 in) |
| Compressive Loading | 2400 N/cm |

Cable Design

| Central Element | Dielectric |
|--|---|
| Fiber Count | 48 |
| Buffer Tube Color Coding | Blue, Orange, Green, Brown |
| Number of Ripcords | 4 |
| Outer Jacket Color | Black |
| Outer Jacket Material | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/ LSZH) material |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Buffer Tube Color | Blue, Orange, Green, Brown |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Inner Jacket Material | Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/ LSZH) material |
| Number of Active Tubes | 4 |
| | |

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| Cable Design | |
|----------------------------|---|
| Number of Filling Elements | 2 |
| Number of Tube Positions | 6 |
| Таре | Water-swellable |
| Tape, Layer 1 | Water-swellable |
| Tape, Layer 2 | Flame-retardant tape |
| Tape, Layer 3 | Water-swellable |
| Tape, Layer 4 | Water-swellable |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |

| Environmental Conditions | |
|---------------------------------|----------------------------------|
| Temperature Range, Installation | -30 °C - 60 °C (-22 °F - 140 °F) |
| Temperature Range, Storage | -50 °C - 75 °C (-58 °F - 167 °F) |
| Temperature Range, Operation | -50 °C - 75 °C (-58 °F - 167 °F) |

General Specifications

| Environment | Indoor/Outdoor |
|----------------|---|
| Cable Type | Loose Tube |
| Product Type | Dielectric |
| Fiber Category | Single-mode (OS2) |
| Flame Rating | LSZH™ (OFN-LS) |
| Application | Aerial, Direct Buried, Duct, Tray-Rated |

Ordering Information

Weight

299 kg/km

Standards

RoHSFree of hazardous substances according to RoHS 2011/65/EUApprovals
and ListingsNational Electrical Code® (NEC®) OFN-LS, Sunlight Resistant (SUN RES), IEEE-1202 flame
test, Suitable for Direct Burial (DIR BUR), IEC 60332-3, IEC 60754-2, IEC 61034Design and
Test CriteriaANSI/ICEA S-104-696, CSA OFN-LS FT-4-ST1, CSA C22.2 No. 230 and No. 232

Optical Characteristics

| Fiber Code | E |
|-------------------------|-----------------------------------|
| Fiber Name | Single-mode (OS2) |
| Fiber Type | Single-mode |
| Performance Option Code | 01 |
| Maximum Attenuation | 0.4 dB/km / 0.4 dB/km / 0.3 dB/km |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Fiber Category | G.652.D |

| Chemical Resistance Characteristics | | |
|-------------------------------------|---------------|----------------------|
| Chemical | Exposure Time | Exposure Temperature |
| ASTM #2 Oil | 4 h | 70 °C (158 °F) |
| De-Icing Fluid | 24 h | 50 °C (122 °F) |
| Diesel Fuel, MIL-F 16884 | 24 h | 35 °C (95 °F) |

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| Chemical Resistance Characteristics | | |
|-------------------------------------|---------------|----------------------|
| Chemical | Exposure Time | Exposure Temperature |
| Hydraulic Fuel, MIL-H 16762 | 24 h | 49 °C (120.2 °F) |
| Hydraulic Fuel, MIL-H 5606 | 24 h | 49 °C (120.2 °F) |
| Lubricating Oil, MIL-L23699 | 24 h | 49 °C (120.2 °F) |
| Vegetation Killer | 168 h | 50 °C (122 °F) |



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