

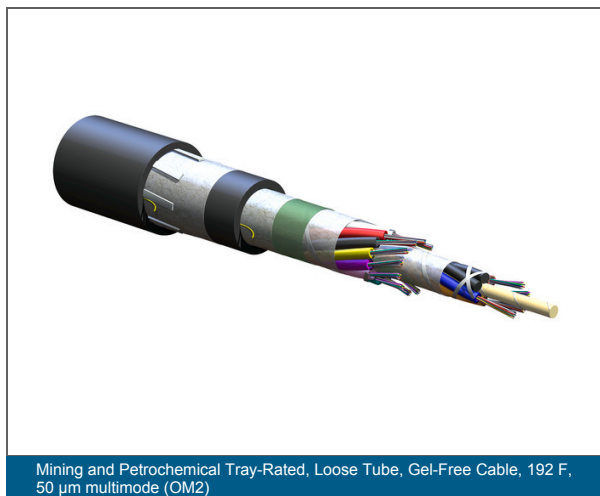
# Mining and Petrochemical Tray-Rated, Loose Tube, Gel-Free Cable 192 F, 50 $\mu\text{m}$ multimode (OM2)

CORNING

**Part Number:**  
**192TUL-T3631D2M**

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) as well as horizontal intrabuilding and tunnel backbones with limited-smoke and zero-halogen requirements. The Corning-pioneered loose tube cable construction places fibers in buffer tubes to provide stable and 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 easy mid-span access. The design also delivers high-fiber density given its small diameter, allowing flexibility to suit many system designs.

The cable's innovative waterblocking technology eliminates the need for a traditional flooding compound for more efficient and craft-friendly cable preparation. The specially formulated black jacket is UV-resistant and has a flame-retardant LSZH™ inner and outer layer. These 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. All-dielectric construction offers more tensile strength and eliminates grounding concerns. With extended storage and operating temperature range of  $-58^{\circ}$  to  $167^{\circ}\text{F}$  ( $-50^{\circ}$  to  $+75^{\circ}\text{C}$ ), 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.



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## 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

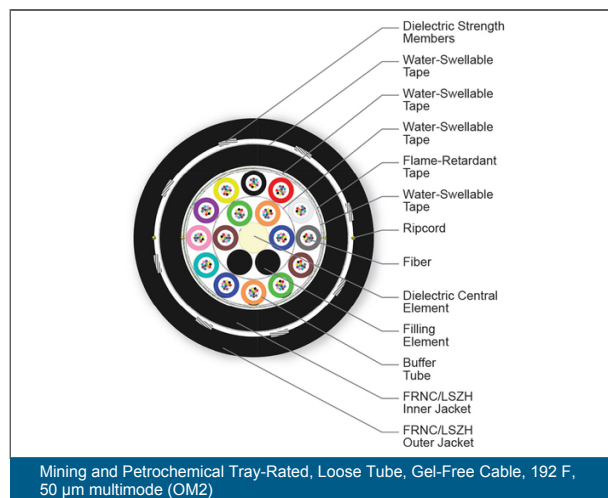
Ideal for harsh environments

### Listed MSHA 30 CFR Pt 7-K

Mining Safety and Health Administration (MSHA) approved

### Common installations

Outdoor aerial and duct



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## Specifications

| General Specifications |   |
|------------------------|---|
| Cable Type             | Loose Tube                              |
| Environment            | Indoor/Outdoor                          |
| Product Type           | Dielectric                              |
| Fiber Category         | 50 µm MM (OM2)                          |
| Flame Rating           | LSZH (OFN-LS)                           |
| Application            | Aerial, Duct, Direct Buried, Tray-Rated |
| Cable geometry         | Round                                   |

| Standards                |  |
|--------------------------|--|
| RoHS                     | Free of hazardous substances according to RoHS 2011/65/EU  |
| Approvals and Listings   | NFPA 130, National 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 61034 |
| Common Installations     | Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770  |
| Design and Test Criteria | ANSI/ICEA S-104-696, UL 1666, UL 1685, CSA OFN-LS FT-4-ST1, CSA C22.2 No. 230 and No. 232  |

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

| Cable Design       |            |
|--------------------|------------|
| Central Element    | Dielectric |
| Fiber Count        | 192        |
| Number of Ripcords | 4          |

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| Cable Design  |  |
|---|--|
| Buffer Tube Color Coding, Layer 1                   | Blue, Orange, Green, Brown   |
| 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 Diameter                                | 2.5 mm (0.1 in)  |
| Inner Jacket Material                               | Flame-retardant  |
| Number of Active Tubes                              | 16   |
| Number of Filling Elements                          | 2  |
| Number of Tube Positions                            | 18   |
| Tape  | Water-swellaible   |
| Tape, Layer 1                                       | Water-swellaible   |
| Tape, Layer 2                                       | Water-swellaible   |
| Tape, Layer 3                                       | Flame-retardant tape   |
| Tape, Layer 4                                       | Water-swellaible   |
| Tape, Layer 5                                       | Water-swellaible   |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube                                     | 12   |
| Color Code Standards                                | Telcordia  |

| Mechanical Specifications         |                      |
|-----------------------------------|----------------------|
| Compressive Loading               | 2400 N/cm            |
| Max. Tensile Strength, Long-Term  | 1500 N (337.21 lbf)  |
| Max. Tensile Strength, Short-Term | 4500 N (1011.64 lbf) |
| Min. Bend Radius Installation     | 350 mm (13.78 in)    |
| Min. Bend Radius Operation        | 233 mm (9.17 in)     |
| Nominal Outer Diameter            | 23.3 mm (0.92 in)    |

# Mining and Petrochemical Tray-Rated, Loose Tube, Gel-Free Cable 192 F, 50 µm multimode (OM2)

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## Optical Characteristics

|  |                         |
|--|-------------------------|
| Fiber Code                             | T                       |
| Fiber Name                             | 50 µm MM (OM2)          |
| Fiber Type                             | Multimode               |
| Fiber Compliance                       | IEC 60793-2-10          |
| Performance Option Code                | 31                      |
| Fiber Core Diameter                    | 50 µm                   |
| Maximum Attenuation                    | 3.0 dB/km / 1.0 dB/km   |
| Min. Overfilled Launch (OFL) Bandwidth | 700 MHz*km / 500 MHz*km |
| Serial 1 Gigabit Ethernet              | 750 m / 600 m           |
| Serial 10 Gigabit Ethernet             | 150 m / -               |
| Wavelengths                            | 850 nm / 1300 nm        |
| Fiber Category                         | OM2                     |

## Dimensions

|              |                               |
|--------------|-------------------------------|
| Cable Weight | 472 kg/km (317.17 lb/1000 ft) |
|--------------|-------------------------------|



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