# LSZH™ Loose Tube, Gel-Free, Corrugated Armored Cable 24 F, SMF-28® Ultra fiber, Single-mode (OS2)

**Part Number:**
**024ZUV-T4101D20**

Corning LSZH™ loose tube gel-free cables are flame-retardant, indoor/outdoor, suitable for installation in interbuilding and intrabuilding applications. The loose tube design offers mechanical ruggedness and environmental durability. The water-swellable yarn eliminates the need for gel-filling compound and allows more efficient and craft-friendly cable preparation. The 250 µm color-coded fibers allow quick and easy identification during installation.

Corning LSZH™ cables eliminate risks in the event of a fire as the LSZH compound does not drip when superheated. The material burns to ash, eliminating the onset of secondary fires. When cables containing halogens ignite, they emit highly reactive gases that can be harmful if inhaled. When halogens combine with water, acids are formed. These acids damage both living tissue and inorganic materials, such as metal and electronic equipment. The flexible, flame-retardant outer jacket is UV-resistant and enables direct exposure to sunlight. Interlocking armor is available for special applications requiring additional mechanical durability.

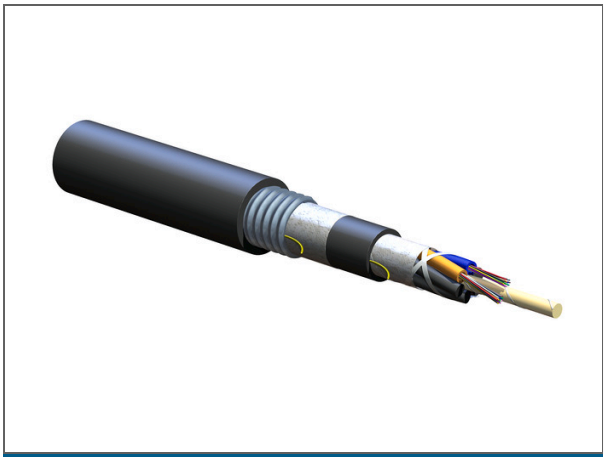
## Features and Benefits

**Low-smoke, zero-halogen sheath**
Key life-safety benefit

**Meets cyclic impact and chemical resistance test**
Superior performance

**Corrugated armor**
Mechanical protection

**Common installations**
Outdoor aerial and duct



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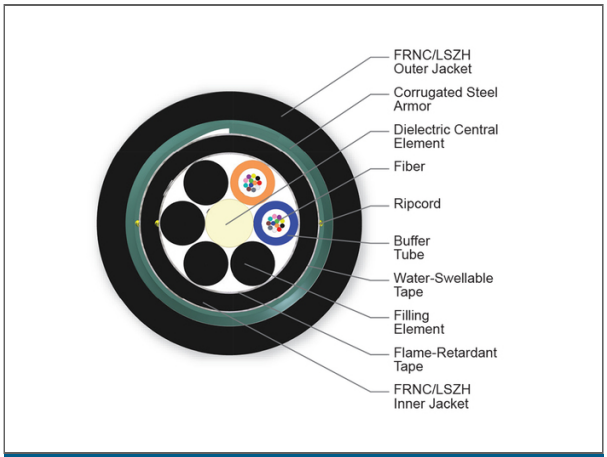


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CORNING

## Specifications

| General Specifications | |
|---|---|
| Cable Type | Loose Tube |
| Environment | Indoor/Outdoor |
| Product Type | Corrugated Steel Armor |
| Fiber Category | SMF-28® Ultra fiber |
| Flame Rating | LSZH (OFCR-LS) |
| Application | Aerial, Direct Buried, Duct, General purpose, Horizontal |
| Fiber Count | 24 |
| Cable geometry | Round |

| Standards | |
|---|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
| Approvals and Listings | National Electrical Code® (NEC®) OFCR-LS/Riser, 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 vertical riser and general purpose horizontal according to National Electrical Code® (NEC®) Article 770 |
| Design and Test Criteria | ANSI/ICEA S-104-696, UL 13, UL 444, UL 1277, UL 1685, CSA C22.2, No. 230 and No. 232, CSA OFC (FT-4-S1) |

| Environmental Conditions | |
|---|---|
| Temperature Range, Installation | -30 °C to 60 °C (-22 °F to 140 °F ) |
| Temperature Range, Operation | -40 °C to 70 °C (-40 °F to 158 °F ) |
| Temperature Range, Storage | -40 °C to 70 °C (-40 °F to 158 °F ) |

| Cable Design | |
|---|---|
| Central Element | Dielectric |

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| Cable Design | |
|---|---|
| Fiber Count | 24 |
| Number of Ripcords | 3 |
| 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 | Corrugated steel tape armor |
| Buffer Tube Color | Blue, Orange |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Inner Jacket Material | Flame-retardant |
| Number of Active Tubes | 2 |
| Number of Filling Elements | 4 |
| Number of Tube Positions | 6 |
| Tape | Water-swellable |
| Tape, Layer 2 | Flame-retardant tape |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |
| Color Code Standards | Telcordia |

| Mechanical Specifications | |
|---|---|
| Max. Tensile Strength, Long-Term | 810 N (182.1 lbf) |
| Max. Tensile Strength, Short-Term | 2700 N (606.98 lbf) |
| Min. Bend Radius Installation | 222 mm (8.74 in) |
| Min. Bend Radius Operation | 148 mm (5.83 in) |
| Nominal Outer Diameter | 14.8 mm (0.58 in ) |

| Optical Characteristics | |
|---|---|
| Fiber Code | Z |

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| Optical Characteristics | |
|---|---|
| Fiber Name | SMF-28® Ultra fiber |
| 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/G.657.A1 |

| Dimensions | |
|---|---|
| Cable Weight | 238.89 kg/km (160.53 lb/1000 ft) |

RoHS COMPLIANT

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