

LSZH™ Loose Tube, Gel-Free, Single-Jacket Cable 36 F, Single-mode (OS2)

CORNING

Part Number:
036EUZ-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 while the all-dielectric cable construction requires no grounding or bonding. 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

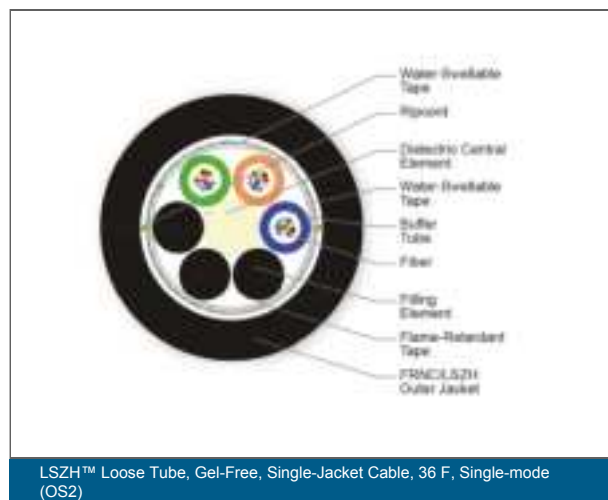
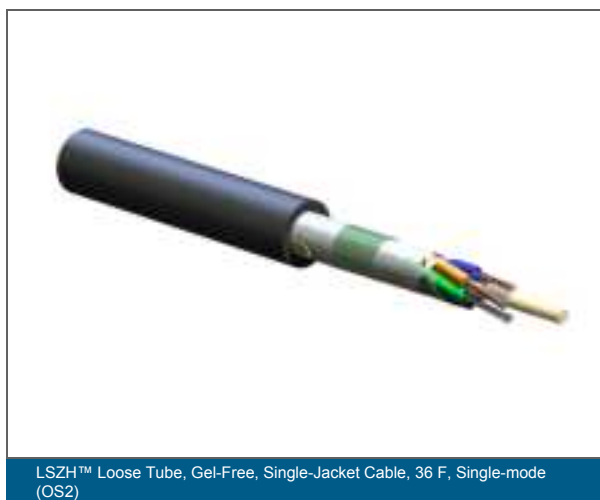
Key life-safety benefit

Meets cyclic impact and chemical resistance test

Superior performance

Common installations

Outdoor aerial and duct



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Specifications

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, General Purpose Horizontal |
| Fiber Count | 36 |

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 general purpose horizontal according to 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 -30 °C (-22 °F to -22 °F) |
| Temperature Range, Operation | -40 °C to 70 °C (-40 °F to 158 °F) |
| Temperature Range, Storage | -40 °C to -40 °C (-40 °F to -40 °F) |

Cable Design

| | |
|--------------------------|---------------------|
| Central Element | Dielectric |
| Fiber Count | 36 |
| Buffer Tube Color Coding | Blue, Orange, Green |

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Cable Design

| | |
|----------------------------|--|
| Number of Ripcords | 2 |
| Outer Jacket Color | Black |
| Outer Jacket Material | Flame-retardant |
| Buffer Tube Color | Blue, Orange, Green |
| Buffer Tube Diameter | 2.5 mm (0.1 in) |
| Number of Active Tubes | 3 |
| Number of Filling Elements | 3 |
| Number of Tube Positions | 6 |
| Tape | Water-swellable |
| Tape, Layer 2 | Flame-retardant tape |
| Tape, Layer 3 | Water-swellable |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12 |

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 | 192 mm (7.56 in) |
| Min. Bend Radius Operation | 128 mm (5.04 in) |
| Nominal Outer Diameter | 12.8 mm (0.5 in) |

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 |

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Optical Characteristics

| | |
|----------------|-----------------------------|
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Fiber Category | G.652.D |

Ordering Information

| | |
|----------------|-------------------------------|
| Product Number | 036EUZ-T4101D20 |
| EAN Code | 4056418173351 |
| Weight | 152 kg/km (102.14 lb/1000 ft) |



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