

LSZH™ Loose Tube, Gel-Free, Corrugated Armored Cable 24 F, Single-mode (OS2)

CORNING

Part Number: 024EUV-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; indoor riser and general purpose horizontal according to NEC Article 770

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Specifications

Mechanical Specifications

Max. Tensile Strength, Long-Term	810 N
Max. Tensile Strength, Short-Term	2700 N
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)

Cable Design

Central Element	Dielectric
Fiber Count	24
Buffer Tube Color Coding	Blue, Orange
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, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Number of Active Tubes	2
Number of Filling Elements	4
Number of Tube Positions	6

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Cable Design

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

Environmental Conditions

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

General Specifications

Environment	Indoor/Outdoor
Cable Type	Loose Tube
Product Type	Corrugated Steel Armor
Fiber Category	Single-mode (OS2)
Flame Rating	LSZH™ (OFCR-LS)
Application	Aerial , Direct Buried , Duct , General Purpose Horizontal

Ordering Information

Weight	245.76 kg/km
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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

Design and Test Criteria ANSI/ICEA S-104-696, UL 13, UL 444, UL 1277, UL 1666, UL 1685, CSA C22.2, No. 230 and No. 232, CSA OFC (FT-4-S1)

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



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