

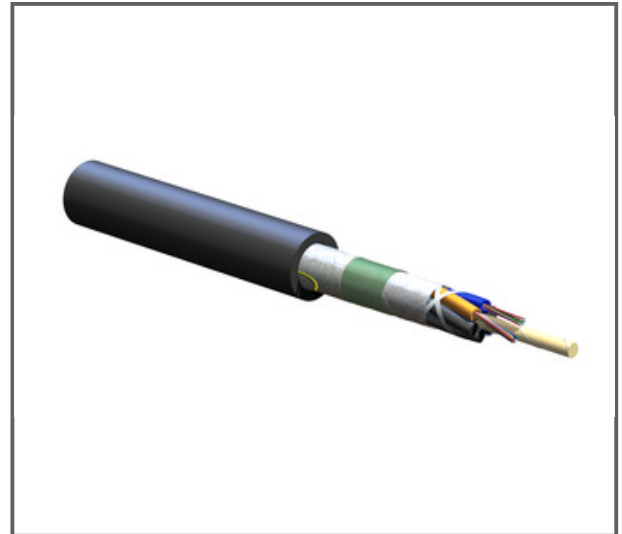
LSZH™ Loose Tube, Gel-Free, Single-Jacket Cable 24 F, 50 µm multimode (OM4)

CORNING

Part Number: 024TUZ-T4190D20

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-swallowable 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; indoor 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	192 mm (7.56 in)
Min. Bend Radius Operation	128 mm (5.04 in)
Nominal Outer Diameter	12.8 mm (0.5 in)

Cable Design

Central Element	Dielectric
Fiber Count	24
Buffer Tube Color Coding	Blue, Orange
Number of Ripcords	2
Outer Jacket Color	Black
Outer Jacket Material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Buffer Tube Color	Blue, Orange
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	2
Number of Filling Elements	4
Number of Tube Positions	6
Tape	Water-swellaable
Tape, Layer 2	Flame-retardant tape
Tape, Layer 3	Water-swellaable

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Cable Design

Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
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Fibers per Tube	12
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Environmental Conditions

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

Environment	Indoor/Outdoor
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Cable Type	Loose Tube
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Product Type	Dielectric
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Fiber Category	50 µm MM (OM4)
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Flame Rating	LSZH™ (OFN-LS)
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Application	Aerial , Direct Buried , Duct , General Purpose Horizontal
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Ordering Information

Weight	152 kg/km
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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Standards

Approvals and Listings 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

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)

Optical Characteristics

Fiber Code	T
Fiber Type	Multimode
Performance Option Code	90
Fiber Core Diameter	50 µm
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Serial 1 Gigabit Ethernet	1100 MHz*km / 600 MHz*km
Serial 10 Gigabit Ethernet	550 MHz*km / -
Wavelengths	850 nm / 1300 nm
Fiber Category	OM4



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