

Industrial LSZH™ Tray-Rated, Loose Tube, Gel-Free Cable 24 F, 50 µm multimode (OM4)



Part Number:
024TUZ-T4190D2N

Corning Industrial LSZH™ fiber optic cables are designed for industrial building backbones and harsh environments atypical of traditional datacom systems. Based on proven stranded loose tube cable designs, these industrial cables are flame-retardant and have been tested to meet mechanical/environmental conditions exceeding the requirements set for traditional datacom cables. The 250 µm color-coded individual fibers offer quick and easy identification during installation.

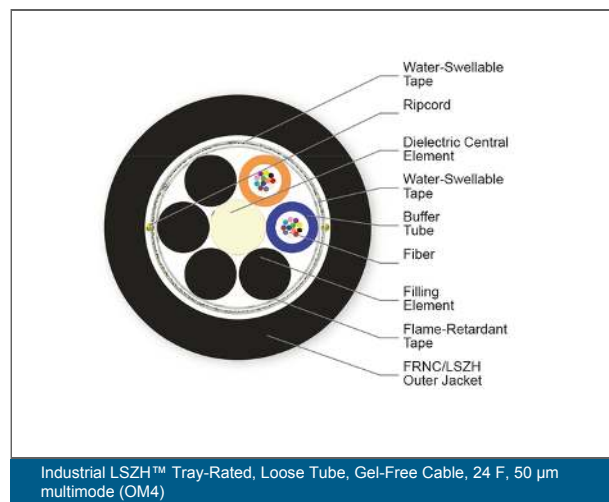
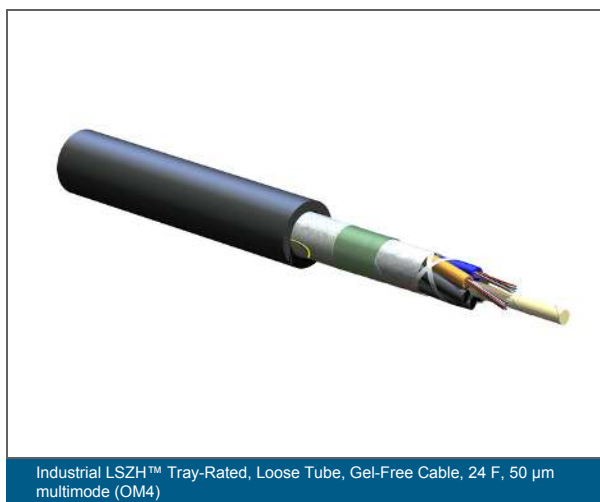
Corning Industrial LSZH™ cables provide life-safety benefits for industrial applications through the cables' construction. Many traditional data communication cables contain halogens in the jacket compound, which pose little risk in the controlled and protected environment of typical building air spaces, such as behind walls, under floors and in conduit. However, cables deployed in industrial applications, particularly on the plant floor, are typically exposed to greater risk of fire, extreme temperatures or chemical exposure. This often makes halogen cables inappropriate for industrial environments.

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	50 µm MM (OM4)
Flame Rating	LSZH™ (OFN-LS)
Application	Aerial, Direct Buried, Duct, Tray-Rated
Fiber Count	24

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 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
Fiber Count	24
Buffer Tube Color Coding	Blue, Orange

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Cable Design	
Number of Ripcords	2
Outer Jacket Color	Black
Outer Jacket Material	Flame-retardant
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-swellable
Tape, Layer 1	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	T
Fiber Type	Multimode
Performance Option Code	90
Fiber Core Diameter	50 µm

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Optical Characteristics	
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

Ordering Information	
Product Number	024TUZ-T4190D2N
EAN Code	4056418150055
Weight	152 kg/km (102.14 lb/1000 ft)



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