

LSZH™ Indoor/Outdoor, Gel-Free, Double-Jacket, Rodent-Resistant Cable, 12-288 Fibers

CORNING

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

Standards

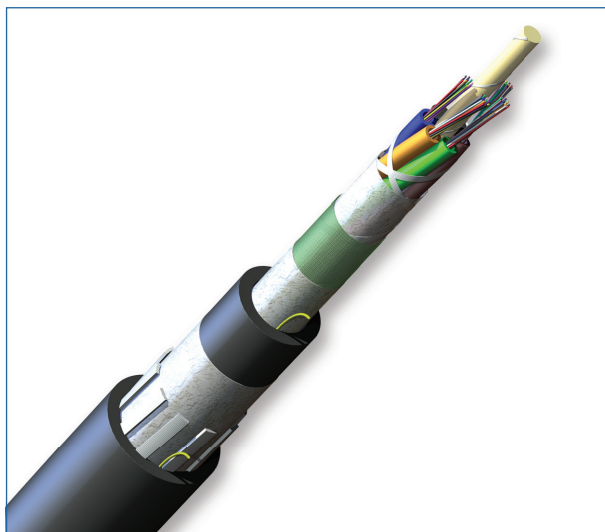
Listings	National Electrical Code® (NEC®) OFN-LS, Sunlight Resistant (SUN RES); IEEE-383/IEEE-1202 flame test; Suitable for Direct Burial (DIR BUR); IEC 60332-3, IEC 60754-2, IEC 61034, NFPA 130
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Design and Test Criteria	ANSI/ICEA S-104-696; UL 13; UL 444; UL 1277; UL 1685; CSA C22.2 No. 230 and No. 232; CSA OFC (FT-4-S1)
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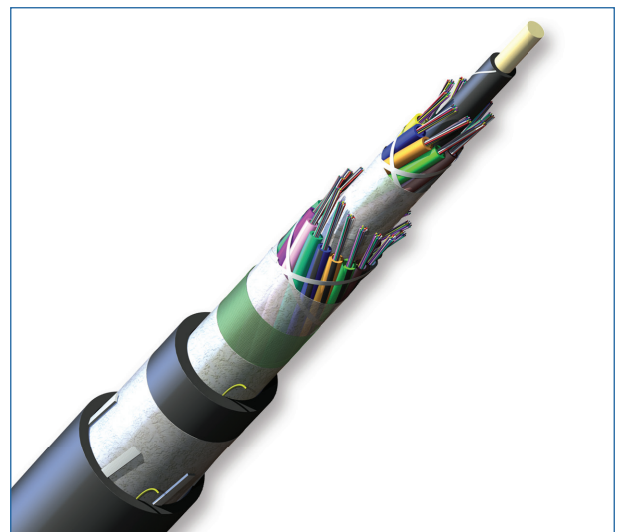
Corning LSZH™ loose tube, gel-free, rodent-resistant cables are flame-retardant, indoor/outdoor, suitable for installation in interbuilding and intrabuilding applications. The loose tube design offers mechanical ruggedness and environmental durability while the all-dielectric cable construction requires no grounding or bonding. The water-swellaable 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

Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



LSZH Gel-Free, Double-Jacket, Rodent-Resistant Cables, 48-Fibers | Photo PIM0744

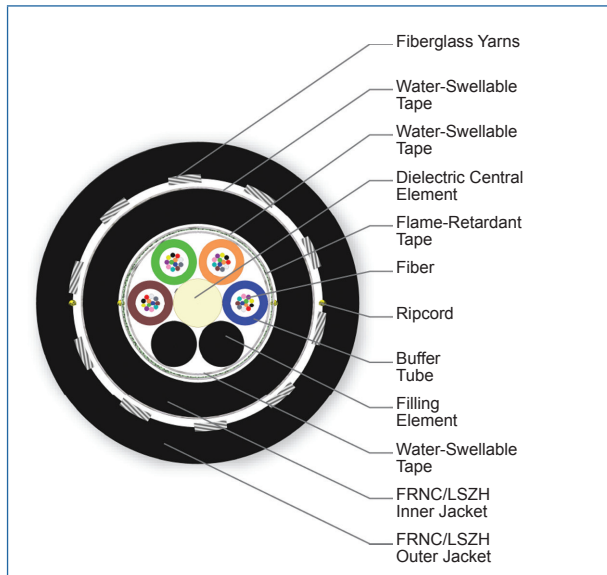


LSZH Gel-Free, Double-Jacket, Rodent-Resistant Cables, 288-Fibers | Photo PIM0751

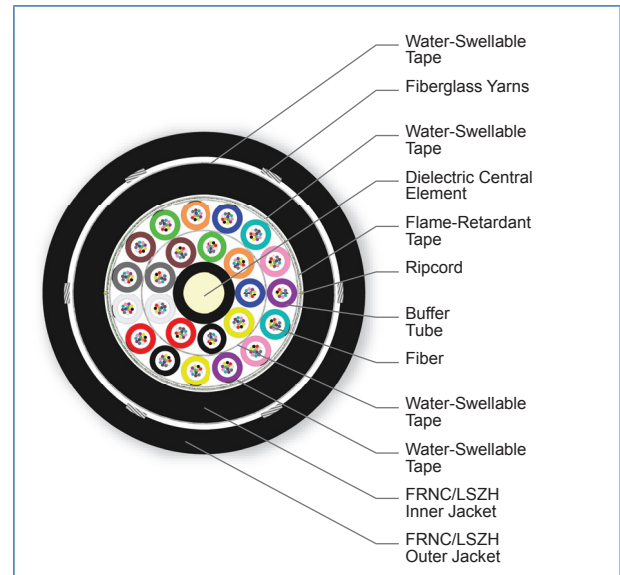
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LSZH Gel-Free, Double-Jacket, Rodent-Resistant Cables, 48-Fibers | Photo PIM1643



LSZH Gel-Free, Double-Jacket, Rodent-Resistant Cables, 288-Fibers | Photo PIM1650

Specifications

Temperature Range

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

* Note: Corning recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	4500 N (1000 lbf)
Max. Tensile Strength, Long-Term	1500 N (333 lbf)

Fiber Count	Buffer Tube Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
12 - 72	2.5 mm (0.1 in)	19.4 mm (0.76 in)	264 mm (10.4 in)	194 mm (7.6 in)	385 kg/km (259 lb/1000 ft)
96	2.5 mm (0.1 in)	22.3 mm (0.87 in)	306 mm (12 in)	223 mm (8.7 in)	503 kg/km (338 lb/1000 ft)

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Fiber Count	Buffer Tube Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
144	2.5 mm (0.1 in)	25.9 mm (1.02 in)	360 mm (14.2 in)	259 mm (10.20 in)	649 kg/km (436 lb/1000 ft)
204 - 216	2.5 mm (0.1 in)	25.2 mm (0.99 in)	350 mm (13.8 in)	252 mm (9.9 in)	591 kg/km (397 lb/1000 ft)

Chemical Characteristics

RoHS

Free of hazardous substances according to RoHS 2002/95/EG

Transmission Performance

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-	5350/-

* 50 μm multimode fiber (OM3/OM4/OM4+) meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

* 50 μm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.

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Single-mode		
Fiber Name	Single-mode (OS2)	SMF-28® Ultra fiber
Fiber Category	G.652.D	G.657.A1
Fiber Code	E	Z
Performance Option Code	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3
Typical Attenuation* (dB/km)	-	0.33/0.33/0.19

* For more information on typical attenuation please see the Corning whitepaper at http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_r/ LAN-1863-AEN.pdf

Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	U	L	-	T	4	6	<input type="text"/>	<input type="text"/>	D	F	Z
1	2	3	4	5	6	7	8	9	10					

1 Select fiber count.

Standard offerings:
012 - 288
Increments of 12

2 Select fiber code.

K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM2)
E = Single-mode (OS2)
SMF-28e+®
Z = Single-mode (OS2)
SMF-28® Ultra fiber

3 Defines cable type.

U = Loose tube

4 Defines outer jacket.

L = LSZH™ Double
Dielectric Cable

5 Defines fiber placement.

T = 12 fibers/buffer tube
(standard)

6 Defines length markings.

4 = Markings in ft
(standard)

7 Defines tensile strength.

6 = 4500

8 Select performance option code.

30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
01 = Single-mode (OS2)
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable type.

D = Gel-free cable

10 Defines special manufacturing code.

FZ = Standard

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Notes



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