

LSZH Ribbon Cable



CORNING

Corning LSZH ribbon cables are designed for horizontal intrabuilding backbones where limited-smoke and zero-halogen requirements exist. These cables are organized with 12-fiber ribbons inside a central tube that are surrounded by dielectric strength members and a specially formulated flame-retardant outer jacket. The 12-fiber ribbons have readily identifiable ribbon ID numbers and fiber colors that allow for easy access to individual fibers. The precise fiber and ribbon geometries result in excellent mass splicing yields. The ribbon riser cables are compatible with standard ribbon cable procedures and hardware. 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. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Features and Benefits

Precise fiber and ribbon geometries

Excellent mass splicing yields

Ribbon ID numbers and fiber colors

Easily identifiable

Available with interlocking armor

Additional mechanical durability

Common installations

Indoor vertical riser and general purpose horizontal according to National Electrical Code (NEC) Article 770

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

Specifications

General Specifications	
Environment	Indoor
Product Type	Distribution
Cable Type	Ribbon
Flame Rating	LSZH (OFNR-LS)

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

Design Characteristics Cable			
Fiber Count	Buffer Tube Diameter	Ribbons per Tube	Fibers per Ribbon
12	5.8 mm (0.23 in)	1	12
24	5.8 mm (0.23 in)	2	12
36	5.8 mm (0.23 in)	3	12
48	5.8 mm (0.23 in)	4	12
72	8.1 mm (0.32 in)	6	12
96	8.1 mm (0.32 in)	8	12
144	11 mm (0.43 in)	12	12
192	11 mm (0.43 in)	16	12
216	11 mm (0.43 in)	18	12

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Mechanical Characteristics Cable

Fiber Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Cable Weight
12 - 48	9.7 mm (0.38 in)	146 mm (5.75 in)	97 mm (3.82 in)	1320 N (296.75 lbf)	400 N (89.92 lbf)	94.8 kg/km (63.7 lb/1000 ft)
72 - 96	12.4 mm (0.49 in)	186 mm (7.32 in)	124 mm (4.88 in)	1320 N (296.75 lbf)	400 N (89.92 lbf)	149 kg/km (100.12 lb/1000 ft)
144	15.2 mm (0.6 in)	228 mm (8.98 in)	152 mm (5.98 in)	1320 N (296.75 lbf)	400 N (89.92 lbf)	198.6 kg/km (133.45 lb/1000 ft)
144	15.2 mm (0.6 in)	228 mm (8.98 in)	152 mm (5.98 in)	1320 N (296.75 lbf)	400 N (89.92 lbf)	191.6 kg/km (128.75 lb/1000 ft)
144 - 216	15.2 mm (0.6 in)	228 mm (8.98 in)	152 mm (5.98 in)	1320 N (296.75 lbf)	400 N (89.92 lbf)	198.6 kg/km (133.45 lb/1000 ft)

Transmission Performance

Multimode

Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Fiber Core Diameter	62.5 µm	50 µm	50 µm	50 µm	50 µm
Wavelengths	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km

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Multimode

Serial 1 Gigabit Ethernet	300 m / 550 m	750 m / 600 m	1000 m / 600 m	1000 m / 600 m	1100 m / 600 m
Serial 10 Gigabit Ethernet	33 m / -	150 m / -	300 m / -	550 m / -	600 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km	700 MHz*km / 500 MHz*km	1500 MHz*km / - 500 MHz*km	3500 MHz*km / 500 MHz*km	
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -	950 MHz*km / -	950 MHz*km / -	4700 MHz*km / -	5350 MHz*km / -

Transmission Performance

Single-mode

Fiber Name	Single-mode (OS2)
Performance Option Code	01
Fiber Category	OS2
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Code	E
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

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C
J
-
1
4
1

-
2
0

1 Select fiber count.

Standard offerings:
012 - 216
Increments of 12

2 Select fiber code.

K = 62.5 μ m multimode (OM1)
T = 50 μ m multimode (OM2, OM3, OM4)
E = Single-mode (OS2) SMF-28e+®
Z = Single-mode (OS2) SMF-28® ULTRA

3 Defines cable type.

C = Ribbon Cable

4 Defines outer jacket.

J = LSZH

5 Defines fiber placement.

1 = Standard

6 Defines length markings.

4 = Markings in ft (standard)

7 Defines tensile strength.

1 = 1320 N/297 lb (standard)

8 Select performance option code.

30 = 62.5 μ m multimode (OM1)
31 = 50 μ m multimode (OM2)
80 = 50 μ m multimode (OM3)
90 = 50 μ m multimode (OM4)
91 = 50 μ m multimode (OM4+)
01 = Single-mode (OS2)
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable type.

- = Gel-free ribbon cable

10 Defines special manufacturing code.

20 = No special requirements



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