

LSZH™ Gel-Free Ribbon Cables

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Features and Benefits

Precise fiber and ribbon geometries
Excellent mass splicing yields

Ribbon ID numbers and fiber colors
Easily identifiable

Listed OFNR-LS and CSA OFN FT4-ST1; IEC 60332-3, IEC 61034 and IEC 60754-2
Meets burn test criteria

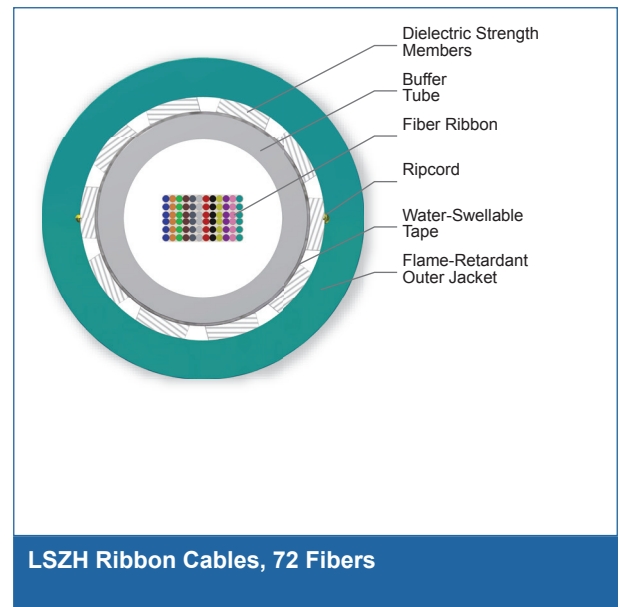
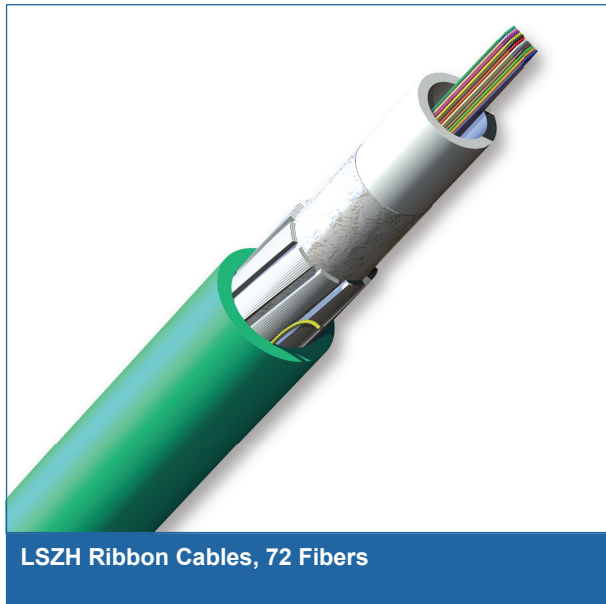
Available with interlocking armor
Additional mechanical durability

Standards

Approvals and Listings	National Electrical Code® (NEC®) OFN-LS, CSA FT-4-ST1, IEEE 383 flame test, UL-1685
Common Installations	Indoor vertical riser and general purpose horizontal according to NEC Article 770
Design and Test Criteria	ANSI/ICEA S-83-596

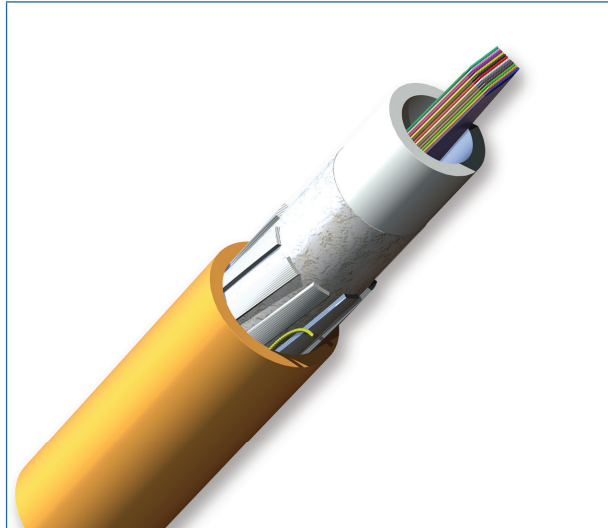
Corning LSZH™ ribbon cables are designed for horizontal intrabuilding backbones where limited-smoke and zero-halogen requirements exist. These cables are organized with 12-fiber ribbons inside a central tube that are surrounded by dielectric strength members and a specially formulated flame-retardant 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.

The 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.

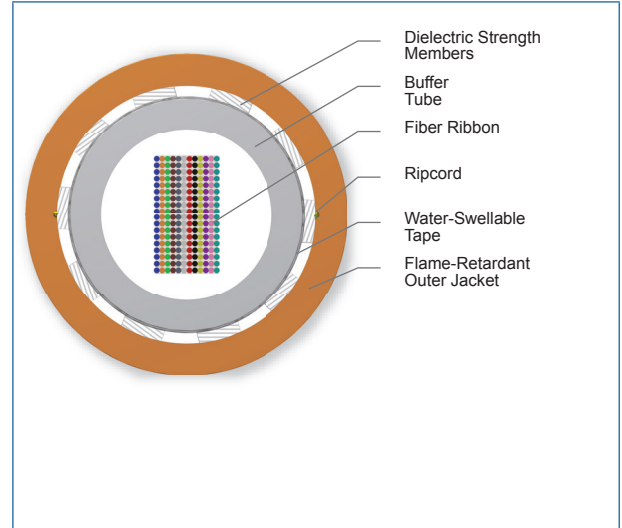


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LSZH Ribbon Cables, 216 Fibers



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- Dielectric Strength Members
- Buffer Tube
- Fiber Ribbon
- Ripcord
- Water-Swellable Tape
- Flame-Retardant Outer Jacket

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 cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)

Mechanical Characteristics Cable					
Fiber Count	Product Type	Nominal Outer Diameter	Weight	Min. Bend Radius Installation	Min. Bend Radius Operation
12 - 48	Distribution	9.7 mm (0.38 in)	93.2 kg/km (62.5 lb/1000 ft)	146 mm (5.7 in)	97 mm (3.8 in)
72 - 96	Distribution	12.4 mm (0.49 in)	147.4 kg/km (98.9 lb/1000 ft)	186 mm (7.3 in)	124 mm (4.9 in)
144 - 216	Distribution	15.2 mm (0.60 in)	193.8 kg/km (130 lb/1000 ft)	228 mm (9.0 in)	152 mm (6.0 in)

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Chemical Characteristics

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

* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

* 50 µm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug & Play™/Pretium 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.

Notes: 1) Improved attenuation and bandwidth options available.

2) Bend-insensitive single-mode fibers available on request.

3) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

4) Contact a Corning Customer Care Representative for additional information.

Single-mode

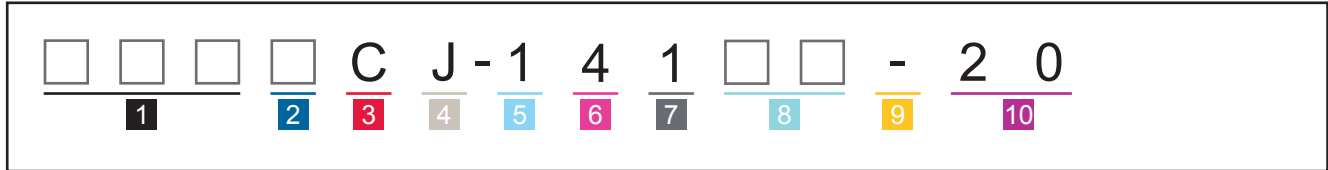
Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	01
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3

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



1 Select fiber count.
Standard offerings:
012 - 216
Increments of 12

2 Select fiber code.
K = 62.5 μm multimode (OM1)
T = 50 μm multimode (OM2, OM3, OM4)
E = Single-mode (OS2)
SMF-28e+®

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 μm multimode (OM1)
31 = 50 μm multimode (OM2)
80 = 50 μm multimode (OM3)
90 = 50 μm multimode (OM4)
91 = 50 μm 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

Note: Use with ribbon fan-out kits for direct connectorization application.



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