LSZH™ UltraRibbon™ Indoor, Gel-Filled Cables, 504-864 Fibers

Features and Benefits

504-864 fibers in a compact design
Maximizes use of critical duct space

Hand-splittable ribbon
Facilitates mass-fusion splicing with 12-fiber units and no stray fibers

12-fiber ribbons individually numbered
Easy identification

Fiber and ribbon geometries
Provide excellent mass fusion splicing results

Flame-retardant, UV-resistant jacket
Rugged and durable, indoor/outdoor use

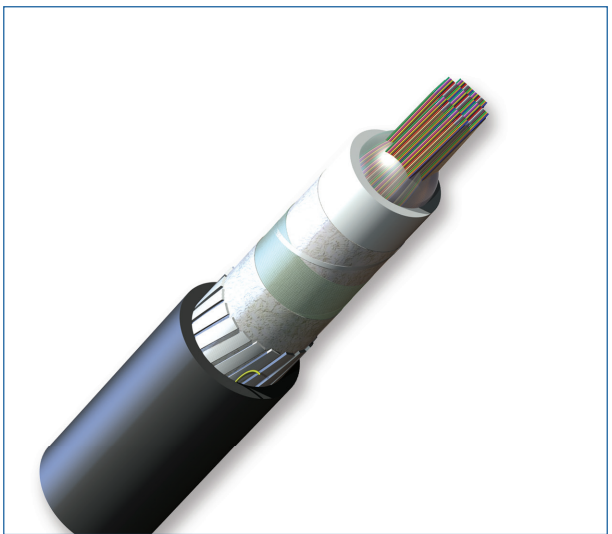
Common installations
Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770

Corning LSZH™ UltraRibbon™ gel-filled cables provide the ultimate solution for indoor/outdoor high-fiber-count applications. The design uses 24 and 36 ribbons within a central tube to minimize the cable dimensions. The smallest and lightest in the industry, these cables are designed to maximize the use of critical duct space with excellent installation results. The UV-resistant flame-retardant jacket allows this cable to be installed outdoors or in indoor general purpose horizontal and riser applications. LSZH UltraRibbon cables employ a single buffer tube containing a stack of 24- and 36-fiber ribbons that are easily separated by hand into two or three 12-fiber ribbons respectively. This cable is also available with interlocking armor for additional mechanical durability.

Standards

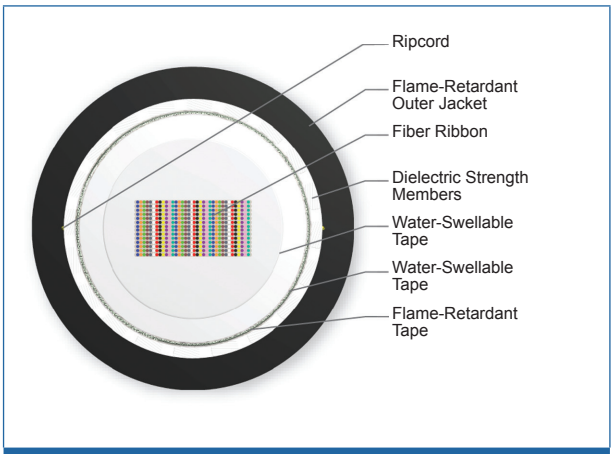
Listings	National Electrical Code® (NEC®) OFNR
Design and Test Criteria	ANSI/ICEA S-104-696, Telcordia GR-409 and GR-20, CSA OFN FT-4

LSZH™ UltraRibbon™ Cable, 504 Fibers
| Photo PIM2556

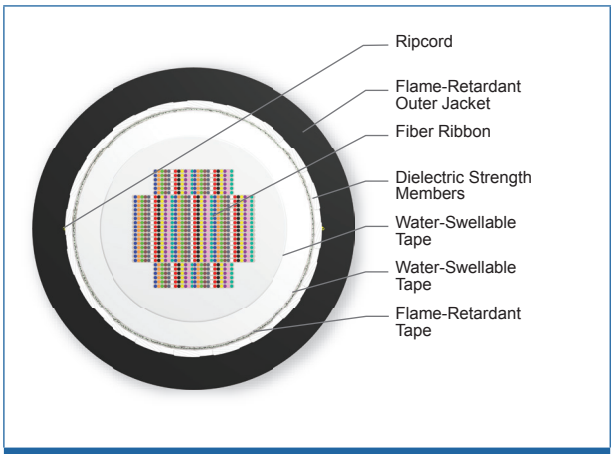


LSZH™ UltraRibbon™ Cable, 864 Fibers
| Photo PIM2558

LSZH™ UltraRibbon™ Indoor, Gel-Filled Cables, 504-864 Fibers



LSZH™ UltraRibbon™ Cable, 504 Fibers
| Photo PIM2335



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Specifications

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °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.*

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)

Fiber Count	Buffer Tube Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Min. Bend Radius Operation	Weight
504	17.9 mm (0.7 in)	26.67 mm (1.05 in)	400.05 mm (15.75 in)	2700 N (600 lbf)	890 N (200 lbf)	266.7 mm (10.5 in)	569.61 kg/km (382.76 lb/1000 ft)
576	17.9 mm (0.7 in)	26.67 mm (1.05 in)	400.05 mm (15.75 in)	2700 N (600 lbf)	890 N (200 lbf)	266.7 mm (10.5 in)	572.05 kg/km (384.40 lb/1000 ft)
720	17.9 mm (0.7 in)	26.67 mm (1.05 in)	400.05 mm (15.75 in)	2700 N (600 lbf)	890 N (200 lbf)	266.7 mm (10.5 in)	577.01 kg/km (387.73 lb/1000 ft)
864	17.9 mm (0.7 in)	26.67 mm (1.05 in)	400.05 mm (15.75 in)	2700 N (600 lbf)	890 N (200 lbf)	266.7 mm (10.5 in)	582.06 kg/km (391.13 lb/1000 ft)

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

Transmission Performance

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

** 50 µm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.*
** 50 µm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.*
** 50 µm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug & Play™/EDGE™ systems solutions.*

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_rl/LAN-1863-AEN.pdf*

** Improved attenuation and bandwidth options available.*
** Bend-insensitive single-mode fibers available on request.*
** 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
** Contact a Corning Customer Care Representative for additional information.*

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

1	1	1	2	3	4	5	6	7	8	8	9	10	10
☐	☐	☐	☐	V	J	-	1	4	1	☐	☐	-	2	0

1 Select fiber count.
Standard offerings:
504 720 864

2 Select fiber code.
T = 50 µm multimode, (OM3/OM4/OM4+)
E = Single-mode (OS2) SMF-28e+®
Z = Single-mode (OS2) SMF-28® Ultra fiber

3 Defines cable type.
V = LSZH UltraRibbon

4 Defines outer jacket.
J = Riser

5 Defines fiber placement.
1 = Standard for ribbon cables

6 Defines length markings.
4 = Markings in ft (standard)

7 Defines tensile strength.
1 = 2700 N/600 lb (standard)

8 Select performance option code.
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-filled cable

10 Defines special requirements.
20 = Standard

RoHS COMPLIANT

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