LSZH™ UltraRibbon™ Indoor/Outdoor, Gel-Free Cables, 288-432 Fibers

CORNING

Features and Benefits

288 up to 432 fibers in a compact design gel-free design
Maximizes use of critical duct space

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

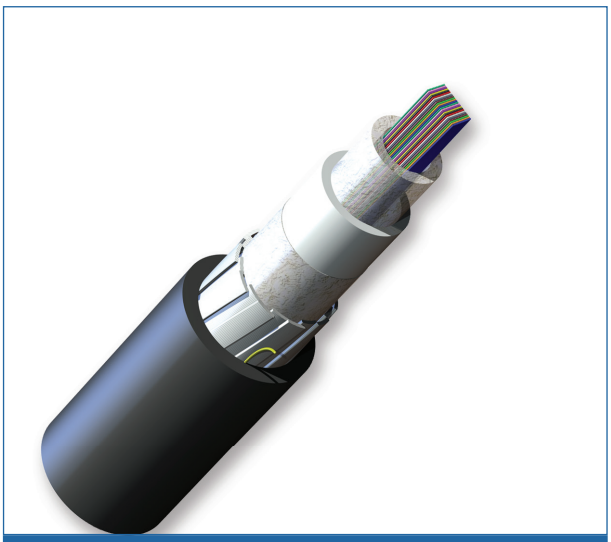
12-fiber ribbons individually numbered
Easy identification

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-free cables provide the ultimate solution for indoor/outdoor high-fiber-count applications. The design uses 24 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-fiber ribbons that are easily separated by hand into two 12-fiber ribbons respectively. This cable is also available with interlocking armor for additional mechanical durability.



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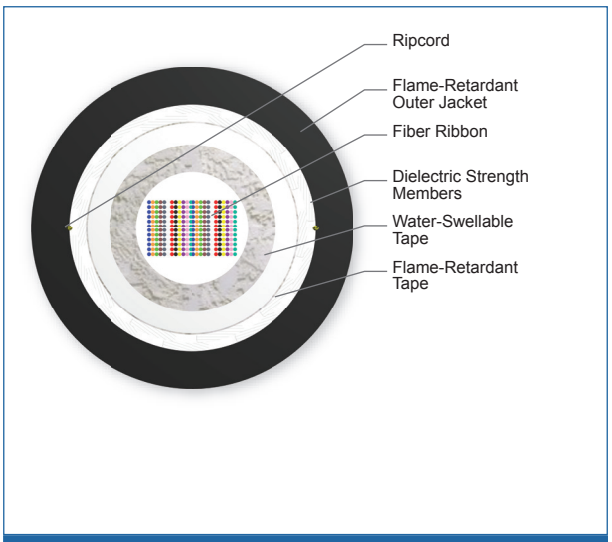

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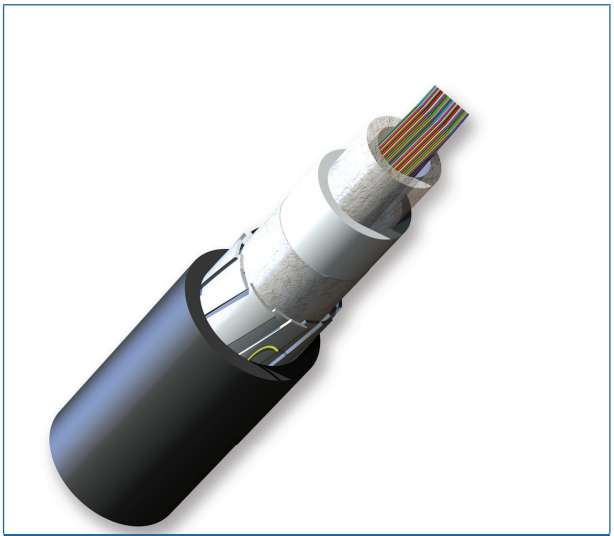
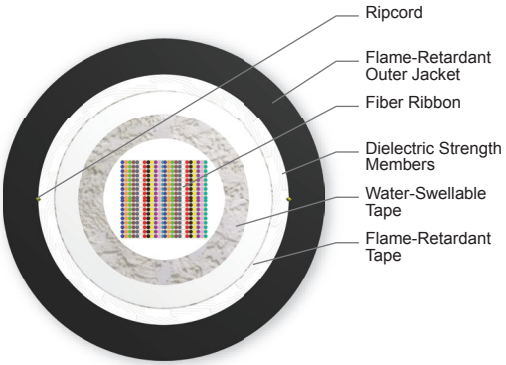
Standards

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 Gel-Free Cable, 432-Fibers



LSZH UltraRibbon Gel-Free Cable, 432-Fibers

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.*

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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	Weight	Min. Bend Radius Operation
288	14 mm (0.6 in)	21.5 mm (0.85 in)	322.5 mm (12.7 in)	2700 N (600 lbf)	890 N (200 lbf)	359.49 kg/km (241.57 lb/1000 ft)	215 mm (8.46 in)
360	14.6 mm (0.6 in)	21.9 mm (0.86 in)	328.5 mm (15 in)	2700 N (600 lbf)	890 N (200 lbf)	368 kg/km (247 lb/1000 ft)	219 mm (10 in)
432	15.35 mm (0.6 in)	22.7 mm (0.89 in)	340.5 mm (15 in)	2700 N (600 lbf)	890 N (200 lbf)	376 kg/km (252 lb/1000 ft)	227 mm (10 in)

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 (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

** 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.*

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

□ □ □	□	V	Z	-	1	4	1	□ □	D	2 0
1	2	3	4		5	6	7	8	9	10

1 Select fiber count.
Standard offerings:
288 360 432

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 = UltraRibbon cable

4 Defines outer jacket.
Z = LSZH indoor/outdoor

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.
D = Gel-free cable

10 Defines special requirements.
20 = Standard

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

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Notes

RoHS COMPLIANT

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
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