

LSZH™ UltraRibbon™ Gel-Free Cables, 288-432 Fibers



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

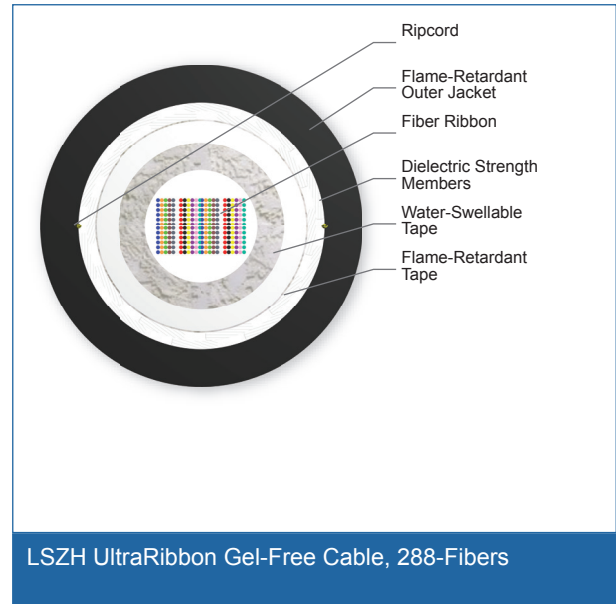
Rugged and durable, indoor/outdoor use

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.

Standards

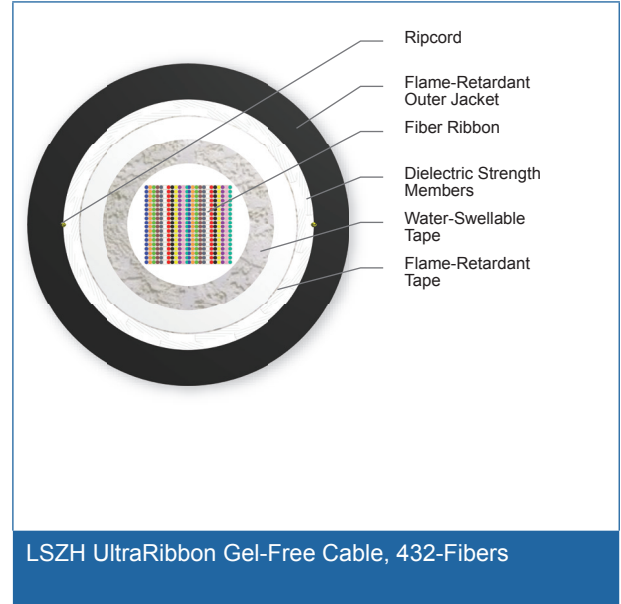
Approval and Listings	National Electrical Code® (NEC®) OFNR, CSA OFN FT-4
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Design and Test Criteria	ANSI/ICEA S-104-696, Telcordia GR-409 and GR-20
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Specifications

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.

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

Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Weight	Min. Bend Radius Installation	Min. Bend Radius Operation
288	21.3 mm (0.84 in)	360 kg/km (241 lb/1000 ft)	319.5 mm (15 in)	213 mm (10 in)
360	21.9 mm (0.86 in)	368 kg/km (247 lb/1000 ft)	328.5 mm (15 in)	219 mm (10 in)
432	22.7 mm (0.89 in)	376 kg/km (252 lb/1000 ft)	340.5 mm (15 in)	227 mm (10 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)	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/-

Notes: 1) Contact a Corning Customer Care Representative for additional information.

Single-mode		
Fiber Name	SMF-28e+® fiber	ClearCurve® XB**
Fiber Category	G.652.D	G.652.D/G.657.A1
Fiber Code	E	H
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	0.35/0.35/0.20

* Typical attenuation values match the attenuation values listed in the optical fiber specifications. See www.corning.com/opticalfiber for Corning optical fiber specifications. Better attenuation performance options are available for some fiber and cable types. Contact Customer Care for additional fiber options.

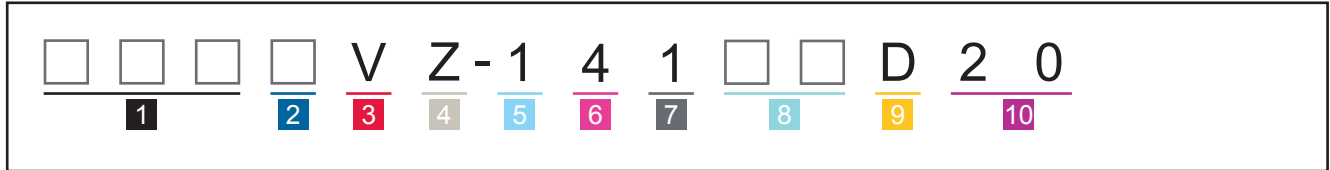
** SMF-28® Ultra and ClearCurve® XB fiber deliver up to 10x better macrobend loss performance compared to the G.652.D standard and up to 33 percent better macrobend loss performance than the G.657.A1 standard for 10mm radii bends.

Notes: 1) 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 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+®
H = ClearCurve® XB (OS2)

3 Defines cable type.
V = UltraRibbon™ Riser Cable

4 Defines outer jacket.
Z = 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.
D = UltraRibbon™ Riser Cable

10 Defines special requirements.
20 = Standard

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



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