

LSZH UltraRibbon Gel-Free Cables

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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.

Features and Benefits

288 up to 432 fibers in a compact 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

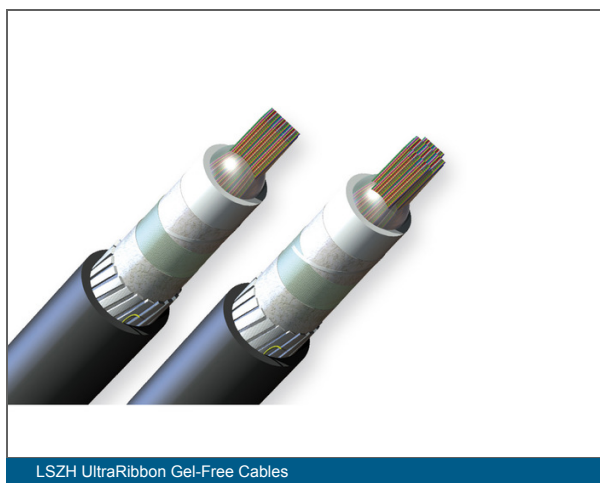
Provide excellent mass fusion splicing results

Flame-retardant, UV-resistant jacket

Rugged and durable, indoor/outdoor use

Common installations

Outdoor aerial and duct



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Standards

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

General Specifications

Environment	Indoor/Outdoor
Product Type	Interlocking Armor
Cable Type	Ribbon
Flame Rating	LSZH (OFN-LS)

Temperature Range

Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Installation	-10 °C - 60 °C (14 °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
288	14 mm (0.55 in)	12	24
360	146 mm (5.75 in)	15	24
432	1535 mm (60.43 in)	18	24
864	181 mm (7.13 in)	12 and 16	24 and 36

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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
288	21.5 mm (0.85 in)	3225 mm (126.97 in)	215 mm (8.46 in)	810 N (182.1 lbf)	810 N (182.1 lbf)	359.49 kg/km (241.57 lb/1000 ft)
360	21.9 mm (0.86 in)	3285 mm (129.33 in)	219 mm (8.62 in)	810 N (182.1 lbf)	810 N (182.1 lbf)	368 kg/km (247.28 lb/1000 ft)
432	22.7 mm (0.89 in)	3405 mm (134.05 in)	227 mm (8.94 in)	890 N (200.08 lbf)	810 N (182.1 lbf)	376 kg/km (252.66 lb/1000 ft)
432	22.7 mm (0.89 in)	3405 mm (134.05 in)	227 mm (8.94 in)	810 N (182.1 lbf)	810 N (182.1 lbf)	376 kg/km (252.66 lb/1000 ft)
432	22.7 mm (0.89 in)	3405 mm (134.05 in)	227 mm (8.94 in)	890 N (200.08 lbf)	810 N (182.1 lbf)	376 kg/km (252.66 lb/1000 ft)
864	25.4 mm (1 in)	381 mm (15 in)	254 mm (10 in)	810 N (182.1 lbf)	810 N (182.1 lbf)	473.26 kg/km (318.02 lb/1000 ft)

Transmission Performance

Multimode

Fiber Category	OM3	OM4	OM4 Extended Distance
Fiber Code	T	T	T
Performance Option Code	80	90	91
Fiber Core Diameter	50 µm	50 µm	50 µm
Wavelengths	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m	1000 m / 600 m	1100 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -	550 m / -	600 m / -

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Multimode

Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / - 500 MHz*km	3500 MHz*km / 500 MHz*km	
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -	4700 MHz*km / -	5350 MHz*km / -

Transmission Performance

Single-mode

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



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