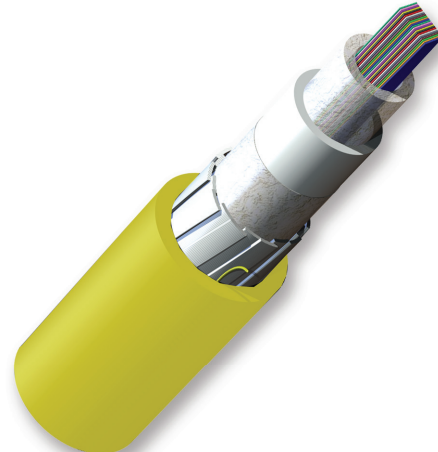# LSZH™ UltraRibbon™ Indoor, Gel-Free Cables

288 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Corning LSZH™ UltraRibbon™ gel-free cables are designed for horizontal intrabuilding backbones where limited-smoke and zero-halogen requirements exist. 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. 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.

This 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.

Part Number: 288ZVJ-14101D20

Features and Benefits

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

Ribbon ID numbers and fiber colors
Easily identifiable

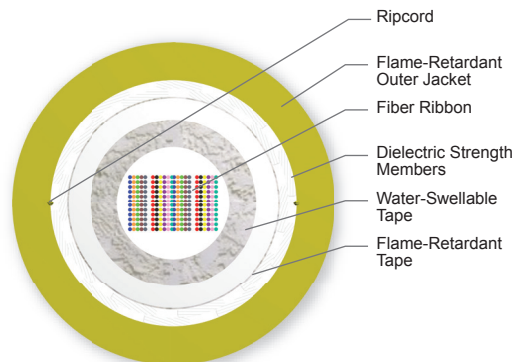**Precise fiber and ribbon geometries**
Excellent mass splicing yields

Available with interlocking armor
Additional mechanical durability

Common installations
Indoor vertical riser and general purpose horizontal according to National Electrical Code® (NEC®) Article 770

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

Cross Section of Part Number: 288ZVJ-14101D20

Standards

Listings	National Electrical Code® (NEC®) OFN-LS, IEEE 383 flame test, UL-1685
Design and Test Criteria	ANSI/ICEA S-83-596, CSA FT-4, Telcordia GR-409

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Ribbon
Flame Rating	LSZH™ (OFNR-LS)
Fiber Category	SMF-28® Ultra fiber

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	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Fiber Count	288
Ribbons per Tube	12
Fibers per Ribbon	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	14.0 mm (0.55 in)
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tape	Water-swellable
Tape, Layer 2	Flame-retardant tape
Tape, Layer 3	Water-swellable
Number of Ripcords	2
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Nominal Outer Diameter	21.5 mm (0.85 in)
Weight	359.49 kg/km (241.56 lb/1000 ft)

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Mechanical Characteristics Cable	
Min. Bend Radius Installation	322.5 mm (12.7 in)
Min. Bend Radius Operation	215 mm (8.5 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	SMF-28® Ultra fiber
Fiber Category	G.657.A1
Fiber Code	Z
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Typical Attenuation	0.33 dB/km / 0.33 dB/km / 0.19 dB/km

* 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

Ordering Information

Part Number	288ZVJ-14101D20
Product Description	LSZH™ UltraRibbon™ Indoor, Gel-Free Cable, 288 F, SMF-28® Ultra fiber, Single-mode (OS2)

RoHS COMPLIANT

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