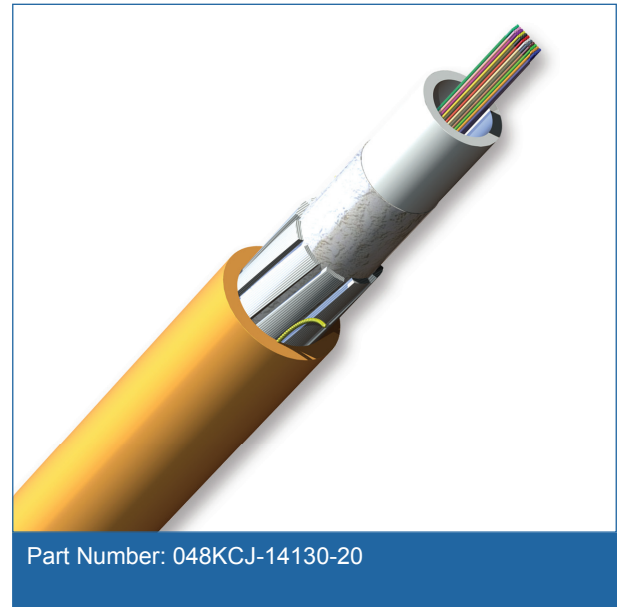# LSZH™ Ribbon Cable
48 F, 62.5 µm multimode (OM1)

CORNING

Corning LSZH™ ribbon cables are designed for horizontal intrabuilding backbones where limited-smoke and zero-halogen requirements exist. These cables are organized with 12-fiber ribbons inside a central tube that are surrounded by dielectric strength members and a specially formulated flame-retardant outer jacket. The 12-fiber ribbons have readily identifiable ribbon ID numbers and fiber colors that allow for easy access to individual fibers. The precise fiber and ribbon geometries result in excellent mass splicing yields. The ribbon riser cables are compatible with standard ribbon cable procedures and hardware.

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: 048KCJ-14130-20

Features and Benefits

Precise fiber and ribbon geometries
Excellent mass splicing yields
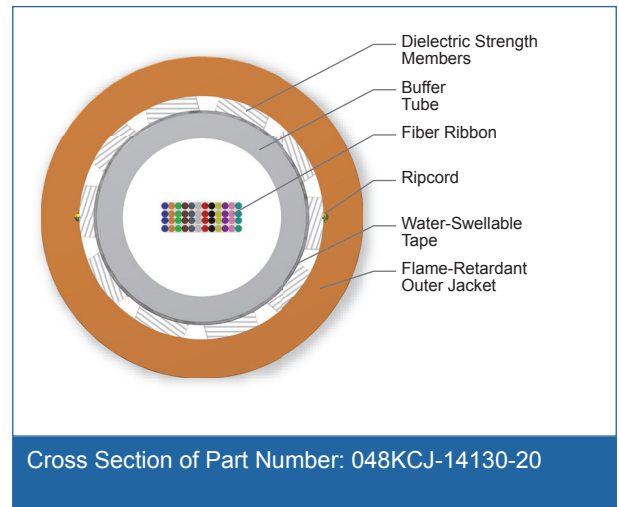
Ribbon ID numbers and fiber colors
Easily identifiable

Available with interlocking armor
Additional mechanical durability

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

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

Cross Section of Part Number: 048KCJ-14130-20

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-ST1

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Ribbon
Product Type	Distribution
Flame Rating	LSZH™ (OFNR-LS)
Fiber Category	62.5 µm MM (OM1)

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	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Fiber Count	48
Ribbons per Tube	4
Fibers per Ribbon	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	5.80 mm (0.23 in)
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Orange

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Weight	94.8 kg/km (63.7 lb/1000 ft)
Nominal Outer Diameter	9.7 mm (0.38 in)
Min. Bend Radius Installation	146 mm (5.7 in)
Min. Bend Radius Operation	97 mm (3.8 in)

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

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -

Notes: 1) *Improved attenuation and bandwidth options available.*
2) *Bend-insensitive single-mode fibers available on request.*
3) *Contact a Corning Customer Care Representative for additional information.*

Ordering Information

Part Number	048KCJ-14130-20
Product Description	LSZH™ Ribbon Cable, 48 F, 62.5 µm multimode (OM1)

RoHS COMPLIANT

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