

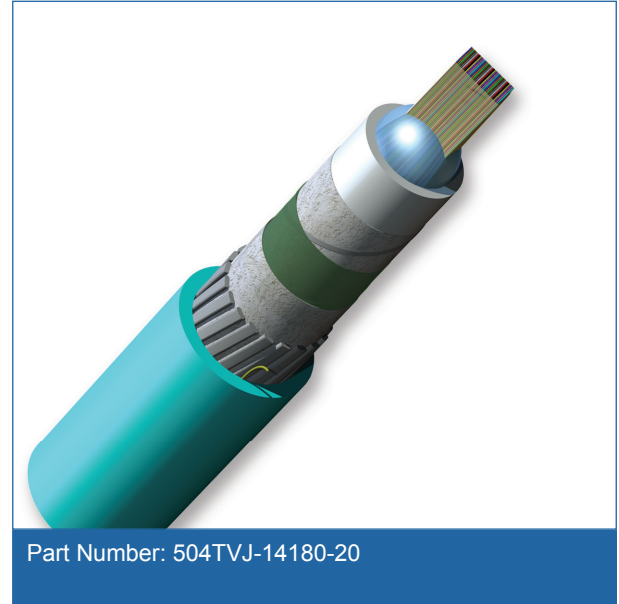
# LSZH™ UltraRibbon™ Indoor Gel-Filled Cables

504 F, 50 µm multimode (OM3)

CORNING

Corning LSZH™ UltraRibbon™ 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: 504TVJ-14180-20

## Features and Benefits

### 288 up to 864 fibers in a compact design gel-filled design

Maximizes use of critical duct space

### Hand-splittable ribbon

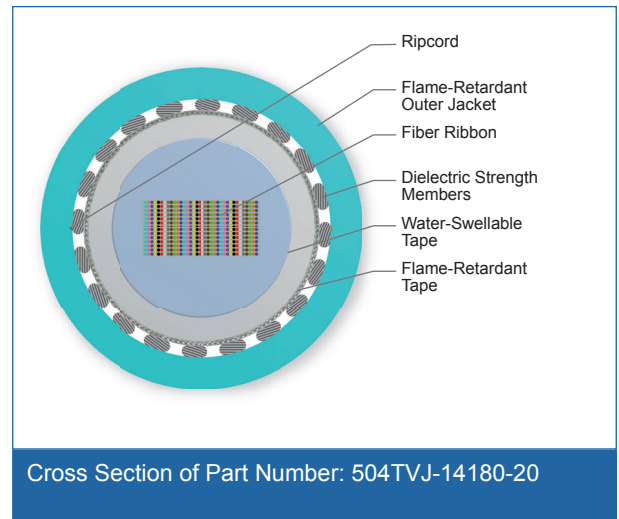
Facilitates mass-fusion splicing with 12-fiber units and no stray fibers

### 12-fiber ribbons individually numbered

Easy identification

### Fiber and ribbon geometries

Provide excellent mass fusion splicing results



Cross Section of Part Number: 504TVJ-14180-20

## Standards

### Approvals and Listings

National Electrical Code® (NEC®) OFN-LS, CSA OFN FT-4

### Design and Test Criteria

ANSI/ICEA S-104-696, Telcordia GR-409 and GR-20

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## Specifications

General Specifications	
Environment	Indoor
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal
Cable Type	Ribbon
Flame Rating	LSZH™ (OFN-LS)
Fiber Category	50 µm MM (OM3)

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)

Cable Design	
Fiber Count	504
Ribbons per Tube	14
Fibers per Ribbon	36
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	17.9 mm (0.7 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	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	570 kg/km (383 lb/1000 ft)

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## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

\* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

- Notes:
- 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
  - 2) Improved attenuation and bandwidth options available.
  - 3) Bend-insensitive single-mode fibers available on request.
  - 4) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

Part Number	504TVJ-14180-20
Product Description	LSZH™ UltraRibbon™ Gel-Filled Indoor Cable, 504 F, 50 µm multimode (OM3)



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

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

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Corning Optical Communications RF LLC (Corning Gilbert) • 5310 W. Camelback Rd. • Glendale, AZ 85301 USA

800-528-5567 • FAX: 800-344-6356 • International: +1-623-245-1050 • [www.corning.com/gilbert](http://www.corning.com/gilbert)

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