

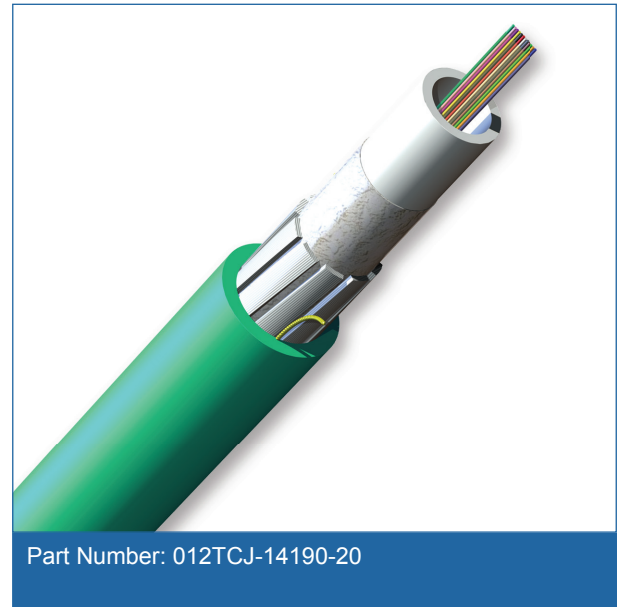
# LSZH™ Ribbon Cable

12 F, 50 µm multimode (OM4)

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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.*



## Features and Benefits

### Precise fiber and ribbon geometries

Excellent mass splicing yields

### Ribbon ID numbers and fiber colors

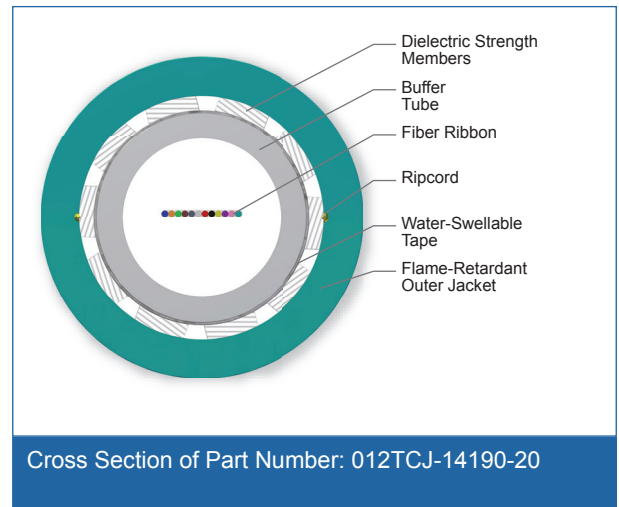
Easily identifiable

### Available with interlocking armor

Additional mechanical durability

### Common installations

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



## 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         | 50 µm MM (OM4)                             |

| 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   | 12   |
| Ribbons per Tube                                    | 1  |
| 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                                | 8.1 mm (0.32 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                                  | Aqua   |

| Mechanical Characteristics Cable  |                              |
|-----------------------------------|------------------------------|
| Max. Tensile Strength, Short-Term | 1320 N (300 lbf)             |
| Max. Tensile Strength, Long-Term  | 400 N (90 lbf)               |
| Weight                            | 93.2 kg/km (62.5 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                     | 50 µm                    |
| Fiber Category                          | OM4                      |
| Fiber Code                              | T                        |
| Performance Option Code                 | 90                       |
| Wavelengths                             | 850 nm / 1300 nm         |
| Maximum Attenuation                     | 3.0 dB/km / 1.0 dB/km    |
| Serial 1 Gigabit Ethernet               | 1100 m / 600 m           |
| Serial 10 Gigabit Ethernet              | 550 m / -                |
| Min. Overfilled Launch (OFL) Bandwidth  | 3500 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 4700 MHz*km / -          |

\* Assumes 1.0 dB maximum total connector/splice loss.

\* 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         | 012TCJ-14190-20                                 |
| Product Description | LSZH™ Ribbon Cable, 12 F, 50 µm multimode (OM4) |
| EAN Code            | 4056418141398                                   |



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