

# Zipcord Riser Cables, 2-Fibers

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## Features and Benefits

### Meets NEC® requirements

Meets burn test criteria

### All-dielectric strength member

Mechanical durability

## Standards

### Approval and Listings

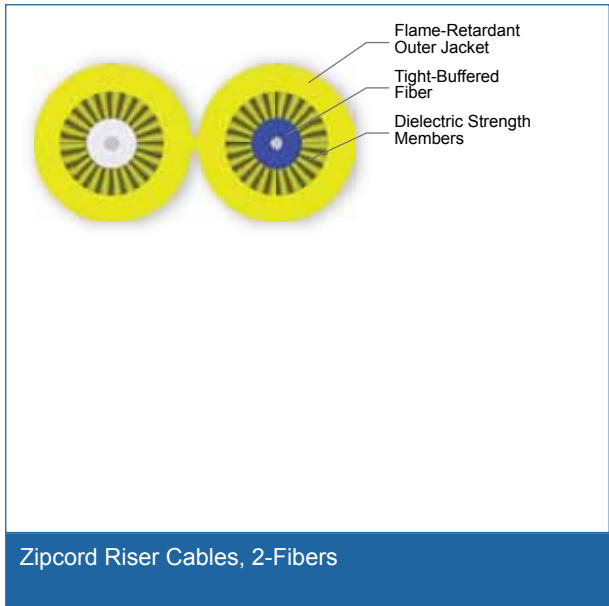
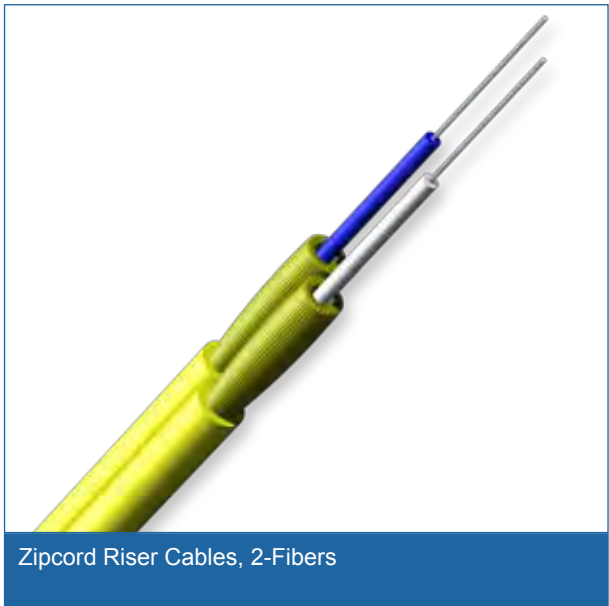
National Electrical Code®  
(NEC®) OFNR, CSA FT-4,  
ICEA S-83-596

### Flame Resistance

UL-1666 (for riser and gen-  
eral building applications)

Corning Cable Systems Zipcord Cables are designed for interconnect applications. Two 900 µm TBII® Buffered Fibers are surrounded by aramid yarn strength members and a flame-retardant jacket. This cable design offers mechanical durability and flame resistance that meet the requirements of the National Electrical Code® (NEC) Article 770.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, 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.



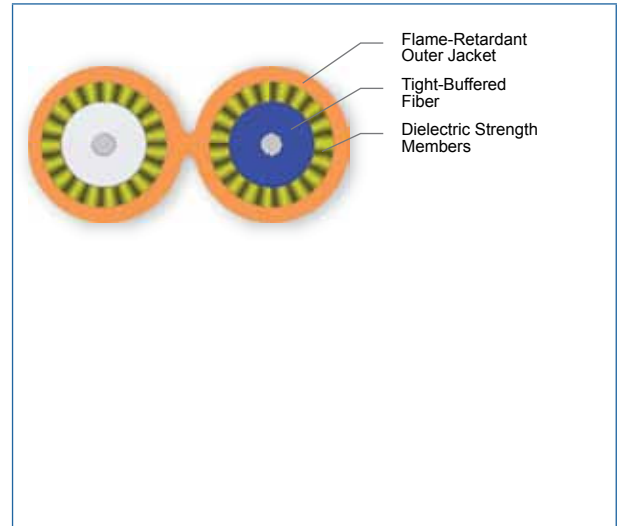
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## Specifications

### Temperature Range

|           |                                    |
|-----------|------------------------------------|
| Storage   | -40 °C to 70 °C (-40 °F to 158 °F) |
| Operation | -20 °C to 70 °C (-4 °F to 158 °F)  |

\* Corning Cable Systems recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

### Mechanical Characteristics Cable

|                                    |                |
|------------------------------------|----------------|
| Max. Tensile Strengths, Short-Term | 220 N (50 lbf) |
| Max. Tensile Strengths, Long-Term  | 66 N (15 lbf)  |

| Fiber Count | Product Type | Nominal Outer Diameter                 | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight                        |
|-------------|--------------|----------------------------------------|-------------------------------|----------------------------|-------------------------------|
| Multimode   |              |                                        |                               |                            |                               |
| 2           | Interconnect | 1.6 mm x 3.3 mm<br>(0.06 in x 0.13 in) | 50 mm<br>(2 in)               | 8 mm<br>(0.3 in)           | 4.6 kg/km<br>(3.1 lb/1000 ft) |
| Single-Mode |              |                                        |                               |                            |                               |
| 2           | Interconnect | 1.6 mm x 3.3 mm<br>(0.06 in x 0.13 in) | 50 mm<br>(2 in)               | 25 mm<br>(1 in)            | 4.6 kg/km<br>(3.1 lb/1000 ft) |

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| Fiber Count | Product Type | Nominal Outer Diameter                 | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight                         |
|-------------|--------------|----------------------------------------|-------------------------------|----------------------------|--------------------------------|
| Multimode   |              |                                        |                               |                            |                                |
| 2           | Interconnect | 2 mm x 4 mm<br>(0.08 in x 0.16 in)     | 50 mm<br>(2 in)               | 10 mm<br>(0.4 in)          | 6.7 kg/km<br>(4.5 lb/1000 ft)  |
| Single-Mode |              |                                        |                               |                            |                                |
| 2           | Interconnect | 2 mm x 4 mm<br>(0.08 in x 0.16 in)     | 50 mm<br>(2 in)               | 25 mm<br>(1 in)            | 6.7 kg/km<br>(4.5 lb/1000 ft)  |
| 2           | Interconnect | 2.8 mm x 5.6 mm<br>(0.11 in x 0.22 in) | 50 mm<br>(2 in)               | 25 mm<br>(1 in)            | 12.8 kg/km<br>(8.5 lb/1000 ft) |
| Multimode   |              |                                        |                               |                            |                                |
| 2           | Interconnect | 2.8 mm x 5.6 mm<br>(0.11 in x 0.22 in) | 50 mm<br>(2 in)               | 14 mm<br>(0.55 in)         | 12.8 kg/km<br>(8.5 lb/1000 ft) |

\* Installed single-mode minimum bend radius of 20 mm is acceptable with a length no longer than 1 m subjected to the bend.

## Chemical Characteristics

|      |                                                           |
|------|-----------------------------------------------------------|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|-----------------------------------------------------------|

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## Transmission Performance

|                                                  |            |            |               |            |                       |                    |
|--------------------------------------------------|------------|------------|---------------|------------|-----------------------|--------------------|
| Fiber Type                                       | Multimode  | Multimode  | Multimode     | Multimode  | Multimode             | Single-mode        |
| Fiber Core Diameter (μm)                         | 62.5       | 50         | 50            | 50         | 50                    | 8.2                |
| Fiber Category                                   | OM1        | OM2        | OM3           | OM4        | OM4 Extended Distance | OS2                |
| Fiber Code                                       | K          | T          | T             | T          | T                     | E                  |
| Performance Option Code                          | 30         | 31         | 80            | 90         | 91                    | 31                 |
| Wavelengths (nm)                                 | 850 / 1300 | 850 / 1300 | 850 / 1300    | 850 / 1300 | 850 / 1300            | 1310 / 1383 / 1550 |
| Maximum Attenuation (dB/km)                      | 3.4 / 1.0  | 2.8 / 1    | 2.8 / 1       | 2.8 / 1    | 2.8 / 1               | 0.65 / 0.65 / 0.5  |
| Min. Overfilled Launch (OFL) Bandwidth (MHz*km)  | 200 / 500  | 700 / 500  | 1500 / 500    | 3500 / 500 | 3500 / 500            |                    |
| Minimum Effective Modal Bandwidth (EMB) (MHz*km) | 220 / -    | 950 / -    | 2000 / -      | 4700 / -   | 5350 / -              |                    |
| Serial 1 Gigabit Ethernet (m)                    | 300 / 550  | 750 / 600  | 1000 / 600    | 1100 / 600 | 1100 / 600            | 5000 / - / -       |
| Serial 10 Gigabit Ethernet (m)                   | 33 / -     | 150 / -    | 300 / -       | 550 / -    | 600 / -               | 10000 / - / 40000  |
| Induced Attenuation @ 7.5 mm Radius (dB)         |            |            | < 30 up to 80 |            |                       |                    |

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

\* Assumes 0.7 dB maximum total connector/splice loss.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

\* ITU-T G.652 D compliant.

Notes: 1) Improved attenuation and bandwidth options available.

2) Bend-insensitive single-mode fibers available on request.

3) Contact a Corning Cable Systems Customer Care Representative for additional information.

4) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

|   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |
|---|---|---|---|---|---|---|---|---|--|--|--|---|---|---|
| 0 | 0 | 2 |   | 5 | 1 | - | 3 | 1 |  |  |  | - | 2 | 4 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |   |   |   |

**1** Defines fiber count.  
002

**2** Select fiber code.  
K = 62.5  $\mu$ m multimode, OM1  
T = 50  $\mu$ m multimode, OM2, OM3, OM4, OM4+  
E = Single-mode, OS2 SMF-28e®

**3** Defines cable type.  
5 = Zipcord

**4** Defines outer jacket.  
1 = Riser

**5** Defines fiber placement.  
31 = Zipcord cable, 2-fiber, feet markings

**6** Select cable outside diameter.  
1 = 2.8 mm  
3 = 2.0 mm  
4 = 1.6 mm

**7** Select performance option code.  
30 = 62.5  $\mu$ m multimode, OM1  
31 = 50  $\mu$ m multimode, OM2  
80 = 50  $\mu$ m multimode, OM3  
90 = 50  $\mu$ m multimode, OM4  
91 = 50  $\mu$ m multimode, OM4+  
31 = Single-mode, OS2  
(Max. attenuation .65 / .65 dB/km)

**8** Defines cable type.  
- = Zipcord

**9** Defines special manufacturing code.  
24 = Standard for zipcord cables, 2-fibers

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

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

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