

# Ribbon Riser Cables

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## Features and Benefits

### Ribbon ID numbers and fiber colors

Easily identifiable

### Precise fiber and ribbon geometries

Excellent mass splicing yields

### Flame-retardant jacket

Rugged and durable

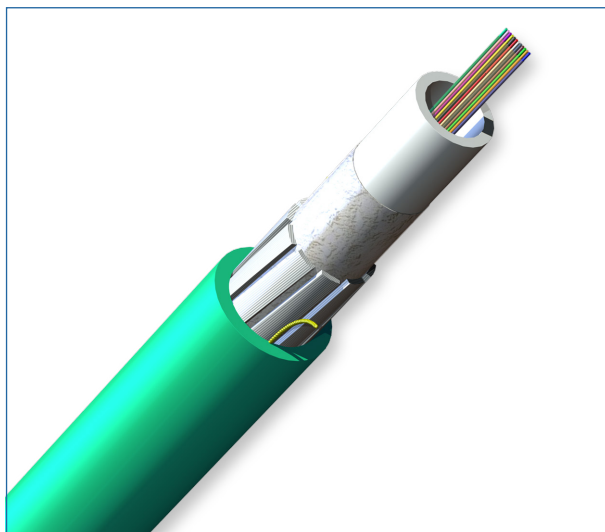
### Preconnectorized

Easy field installation and reduced labor cost

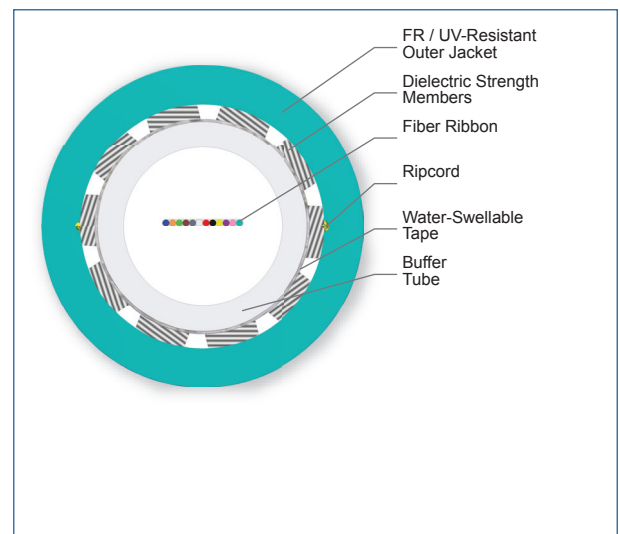
Corning ribbon riser cables are all-dielectric and designed for indoor use. The optical fibers are organized into easily identifiable 12-fiber ribbons inside a central tube. The required tensile strength is provided by dielectric strength members that are helically stranded around the central tube. The specially formulated, flame-retardant outer jacket and rugged construction of these cables facilitates routing through riser shafts and long horizontal runs inside buildings. These cables are tested using the UL 1666 flame test, meet the application requirements of the National Electrical Code (NEC) and are OFNR and FT-4 listed.

## Standards

Approval and Listings	National Electrical Code® (NEC®) OFNR, CSA FT-4
Common Installations	Indoor vertical riser and general purpose horizontal according to NEC Article 770
Design and Test Criteria	ANSI/ICEA S-83-596



Ribbon Riser Cable, 12 Fibers | Photo PIM1123

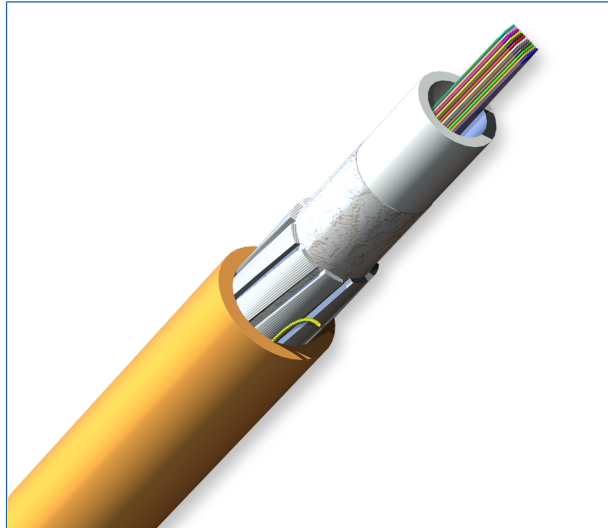


Ribbon Riser Cable, 12 Fibers | Photo PIM2030

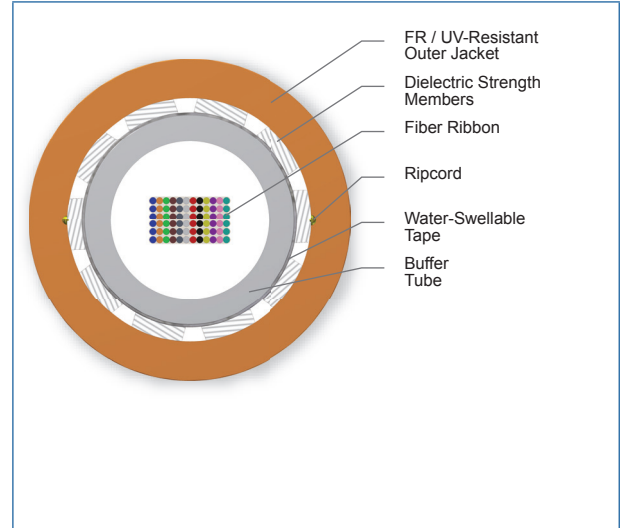
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Ribbon Riser Cable, 72 Fibers | Photo PIM1131



Ribbon Riser Cable, 72 Fibers | Photo PIM2029

## Specifications

### 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	-20 °C to 70 °C (-4 °F to 158 °F)

\* Note: Corning 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.

Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)

### Mechanical Characteristics Cable

Fiber Count	Product Type	Nominal Outer Diameter	Weight	Min. Bend Radius Installation	Min. Bend Radius Operation
12 - 48	Distribution	9.7 mm (0.38 in)	88 kg/km (59 lb/1000 ft)	146 mm (5.7 in)	97 mm (3.8 in)
72 - 96	Distribution	12.4 mm (0.49 in)	140 kg/km (94 lb/1000 ft)	186 mm (7.3 in)	124 mm (4.9 in)
144 - 216	Distribution	15.2 mm (0.60 in)	184 kg/km (123 lb/1000 ft)	228 mm (9.0 in)	152 mm (6.0 in)

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## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Transmission Performance

Multimode				
Fiber Core Diameter (µm)	62.5	50	50	50
Fiber Category	OM1	OM2	OM3	OM4 Extended Distance
Fiber Code	K	T	T	T
Performance Option Code	30	31	80	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	5350/-

\* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

\* 50 µm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

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

## Single-mode

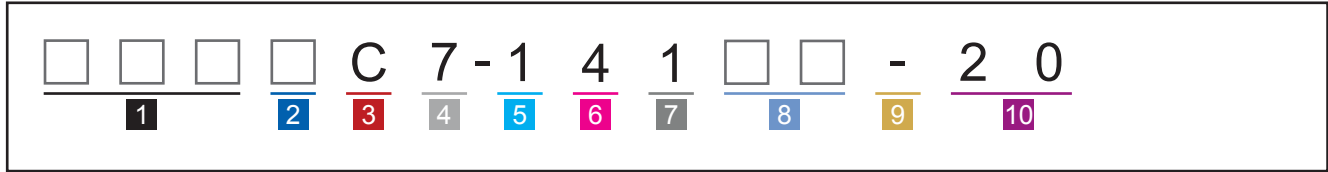
Fiber Name	SMF-28e+® fiber	ClearCurve® XB**
Fiber Category	G.652.D	G.652.D/G.657.A1
Fiber Code	E	H
Performance Option Code	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3
Typical Attenuation* (dB/km)	0.33/0.33/0.19	0.35/0.35/0.20



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Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.



**1** Select fiber count.  
Standard offerings:  
012 036 072 144  
024 048 096 216

**2** Select fiber code.  
K = 62.5 μm multimode (OM1)  
T = 50 μm multimode,  
(OM2/OM3/OM4/OM4+)  
E = Single-mode (OS2)  
SMF-28e+®  
H = Single-mode (OS2)  
SMF-28e® Bend-improved

**3** Defines cable type.  
C = Ribbon Cable

**4** Defines outer jacket.  
7 = Riser  
See Note 1.

**5** Defines fiber placement.  
1 = Standard

**6** Defines length markings.  
4 = Markings in ft(standard)

**7** Defines tensile strength.  
1 = Standard

**8** Select performance option code.  
30 = 62.5 μm multimode (OM1)  
31 = 50 μm multimode (OM2)  
80 = 50 μm multimode (OM3)  
90 = 50 μm multimode (OM4)  
91 = 50 μm multimode (OM4+)  
01 = Single-mode (OS2)  
(Max. attenuation 0.4/0.4/0.3 dB/km)

**9** Defines cable type.  
- = Ribbon Cable

**10** Defines special manufacturing code.  
20 = No special requirements

Note: Use with ribbon fan-out kits for direct connectorization application.



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