

# Ribbon Interlocking Armored Riser Cables

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## Features and Benefits

### Precise fiber and ribbon geometries

Excellent mass splicing yields

### Ribbon ID numbers and fiber colors

Easily identifiable

### Flexible interlocking armor

More than seven times the crush protection compared to non-armored cables

### Flame-retardant jacket

Rugged and durable

## Standards

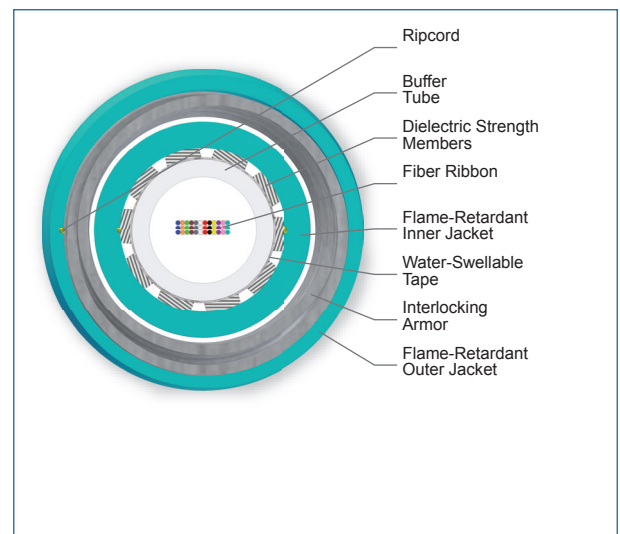
Approvals and Listings

National Electrical Code®  
(NEC®) OFCP, CSA FT-6,  
ANSI/ICEA S-83-596

Corning ribbon interlocking armored riser cables are designed for use in riser and general-purpose environments for intrabuilding backbone and horizontal installations. These cables are standard ribbon riser cables placed inside spirally wrapped aluminum interlocking armor for ruggedness and superior crush resistance. This special construction facilitates routing inside buildings, through riser shafts, to telecommunication rooms and to workstations. Ideal for heavy traffic or more challenging mechanical exposure conditions, this cable design consists of fibers organized into 12-fiber ribbons inside a central tube surrounded by dielectric strength members to provide tensile strength. The flexible interlocking armor offers over seven times the crush protection of nonarmored cables, while a specially formulated flame-retardant outer jacket allows the design to meet the requirements of the NFPA 262 flame test. The 12-fiber ribbons have readily identifiable ribbon ID numbers and fiber colors with easy access to individual fibers.



Ribbon Interlocking Armored Riser Cables,  
36 Fibers | Photo PIM1195

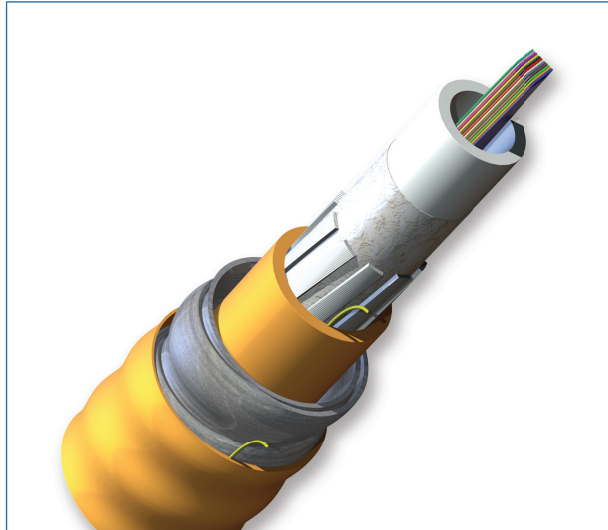


Ribbon Interlocking Armored Riser Cables,  
36 Fibers | Photo PIM2093

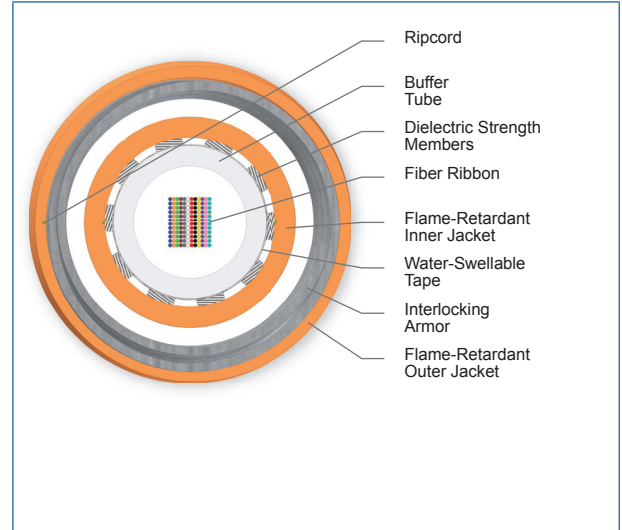
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# Ribbon Interlocking Armored Riser Cables

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Ribbon Interlocking Armored Riser Cables, 144 Fibers | Photo PIM1206



Ribbon Interlocking Armored Riser Cables, 144 Fibers | Photo PIM2104

## Specifications

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °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	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
12 - 48	15.4 mm (0.61 in)	231 mm (9.15 in)	154 mm (6.1 in)	196 kg/km (131.32 lb/1000 ft)	Interlocking armor
72 - 96	19.3 mm (0.76 in)	289.5 mm (11.4 in)	193 mm (7.6 in)	271.42 kg/km (182.38 lb/1000 ft)	Interlocking armor

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## Mechanical Characteristics Cable

Fiber Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
144	23.0 mm (0.90 in)	345 mm (13.5 in)	230 mm (9.0 in)	350.84 kg/km (235.75 lb/1000 ft)	Interlocking armor
216	23.0 mm (0.90 in)	345 mm (13.5 in)	230 mm (9.0 in)	358.12 kg/km (240.64 lb/1000 ft)	Interlocking armor

## 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	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	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	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
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/-

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



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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

\* Typical attenuation values match the attenuation values listed in the optical fiber specifications. See [www.corning.com/opticalfiber](http://www.corning.com/opticalfiber) for Corning optical fiber specifications. Better attenuation performance options are available for some fiber and cable types. Contact Customer Care for additional fiber options.  
 \*\* SMF-28® Ultra and ClearCurve® XB fiber deliver up to 10x better macrobend loss performance compared to the G.652.D standard and up to 33 percent better macrobend loss performance than the G.657.A1 standard for 10mm radii bends.

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



**1** Select fiber count.  
 Standard offerings:  
 012 - 216  
 Increments of 12

**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)  
 ClearCurve® XB

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

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

**5** Defines fiber placement.  
 1 = 12 fibers/buffer tube  
 (standard)

**6** Defines length markings.  
 4 = Markings in feet (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 requirements.  
 A1 = Interlocking armor with  
 riser-rated outer jacket

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## Notes



**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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