

UltraRibbon™ Indoor, Gel-Free, Interlocking Armored Cables, 288-432 Fibers, Riser

CORNING

Features and Benefits

Each 12-fiber ribbon individually numbered
Easy identification

Precise fiber and ribbon geometries in a gel-free design
Excellent mass splicing yields

Flame-retardant jacket
Rugged and durable

Up to 432 fibers in a compact design
Easily fits in 1.25-in diameter inner duct

Flexible interlocking armor
Up to seven times the crush protection compared to non-armored cables

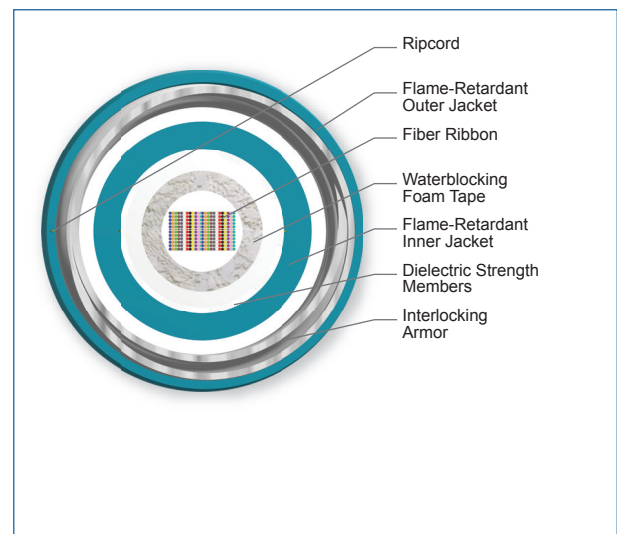
Common installations
Indoor vertical riser and general purpose horizontal according to National Electrical Code® (NEC®) Article 770

Corning UltraRibbon™ riser gel-free interlocking armored cables continue the innovative breakthrough in indoor cable technology with a new generation of high-fiber-count single tube cables. Encased in spirally wrapped aluminum interlocking armor for ruggedness and superior crush resistance, these cables are ideal for industrial and heavy traffic areas and installations requiring extra protection for optical cables. A specially formulated flame-retardant jacket allows this cable the flexibility to be used in indoor general purpose horizontal and riser applications.

The cable consists of a single buffer tube containing a stack of up to eighteen 24-fiber ribbons. Available in fiber counts from 288 to 432, each 24-fiber ribbon can be easily separated by hand into two 12-fiber ribbons. The 12-fiber ribbons have readily identifiable ribbon IDs, fiber colors and geometries that result in excellent mass-splicing yields.



UltraRibbon Riser Gel-Free Interlocking Armored Cables, 288 Fibers | Photo PIM2564



UltraRibbon Riser Gel-Free Interlocking Armored Cables, 288 Fibers | Photo PIM2345

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Standards

Listings

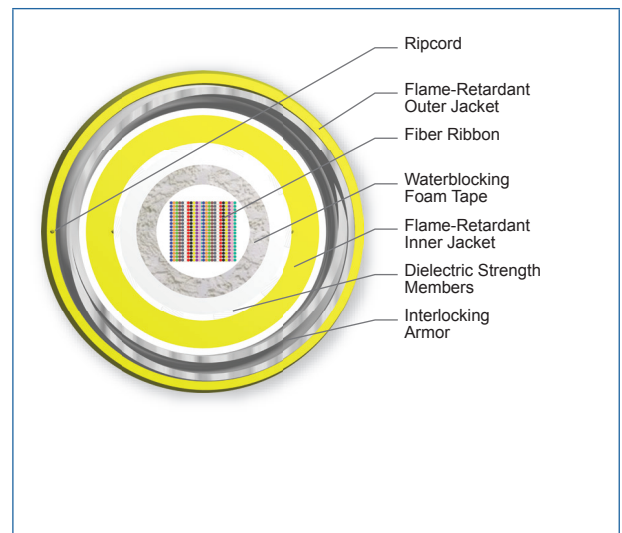
National Electrical Code®
(NEC®) OFNR, FT-4

Design and Test Criteria

ANSI/ICEA S-83-596; CSA
FT-4



UltraRibbon Riser Gel-Free Interlocking Armored Cables, 432 Fibers | Photo PIM2574



UltraRibbon Riser Gel-Free Interlocking Armored Cables, 432 Fibers | Photo PIM2348

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.

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

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Fiber Count	Buffer Tube Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Nominal Outer Diameter	Weight
288	14 mm (0.55 in)	393 mm (15.47 in)	262 mm (10.32 in)	1320 N (300 lbf)	400 N (90 lbf)	26.20 mm (1.03 in)	517.01 kg/km (347.41 lb/1000 ft)
360	14.6 mm (0.57 in)	412.50 mm (16.24 in)	275 mm (10.82 in)	1320 N (300 lbf)	400 N (90 lbf)	27.50 mm (1.08 in)	545.03 kg/km (366.24 lb/1000 ft)
432	15.4 mm (0.60 in)	433.50 mm (17.06 in)	289 mm (11.38 in)	1320 N (300 lbf)	400 N (90 lbf)	28.90 mm (1.14 in)	580.87 kg/km (390.33 lb/1000 ft)

Chemical Characteristics

RoHS

Free of hazardous substances according to RoHS 2011/65/EU

Transmission Performance

Multimode			
Fiber Core Diameter (μm)	50	50	50
Fiber Category	OM3	OM4	OM4 Extended Distance
Fiber Code	T	T	T
Performance Option Code	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	2000/-	4700/-	5350/-

* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.

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

* 50 μm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug & Play™/EDGE™ systems solutions.

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Single-mode		
Fiber Name	Single-mode (OS2)	SMF-28® Ultra fiber
Fiber Category	G.652.D	G.657.A1
Fiber Code	E	Z
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

* Improved attenuation and bandwidth options available.

* Bend-insensitive single-mode fibers available on request.

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

* Contact a Corning Customer Care Representative for additional information.

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

				V	7	-	1	4	1			D	A	1
1	2	3	4	5	6	7	8	9	10					

1 Select fiber count.

Standard offerings:
288 360 432

2 Select fiber code.

T = 50 µm multimode
(OM3/OM4/OM4+)
E = Single-mode (OS2)
SMF-28e+® fiber
Z = Single-mode (OS2)
SMF-28® Ultra fiber

3 Defines cable type.

V = UltraRibbon cable

4 Defines outer jacket.

7 = Indoor riser

5 Defines fiber placement.

1 = Standard for ribbon cables

6 Defines length markings.

4 = Markings in ft (standard)

7 Defines tensile strength.

1 = 2700 N/600 lb (standard)

8 Select performance option code.

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.

D = Gel-free cable

10 Defines special requirements.

A1 = Standard



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