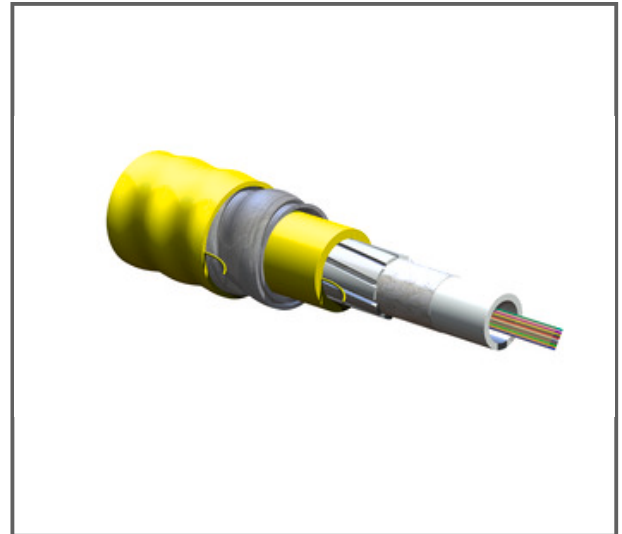


# Ribbon Interlocking Armored Cable, Riser 12 F, Single-mode (OS2)

CORNING

## Part Number: **012EC7-14101-A1**

Corning ribbon interlocking armored riser cables are designed for use in riser and general-purpose environments in 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 up to 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.



## 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

### **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

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## Specifications

### Cable Design

Buffer Tube Color	Natural
Fiber Count	12
Buffer Tube Diameter	8.1 mm (0.32 in)
Number of Ripcords	2
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Outer Jacket Color	Yellow
Outer Jacket Material	Flame-retardant
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking Armor
Ribbons per Tube	1
Fibers per Ribbon	12

### Mechanical Specifications

Max. Tensile Strength, Long-Term	400 N
Max. Tensile Strength, Short-Term	1320 N
Min. Bend Radius Installation	236 mm (9.29 in)
Min. Bend Radius Operation	157 mm (6.18 in)
Nominal Outer Diameter	15.7 mm (0.62 in)

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## Environmental Conditions

Temperature Range, Installation	-10 °C - 60 °C (14 °F - 140 °F)
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Operation	-20 °C - 70 °C (-4 °F - 158 °F)

## General Specifications

Environment	Indoor
Cable Type	Ribbon
Fiber Category	Single-mode (OS2)
Flame Rating	Riser (OFNR)
Application	General Purpose Horizontal , Vertical Riser

## Ordering Information

Weight	212 kg/km
Units per Delivery	1/1

## Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFNP
Design and Test Criteria	ANSI/ICEA S-83-596, CSA FT-6

## Optical Characteristics

Fiber Code	E
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## Optical Characteristics

Fiber Name	Single-mode (OS2)
Fiber Type	Single-mode
Performance Option Code	01
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D



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