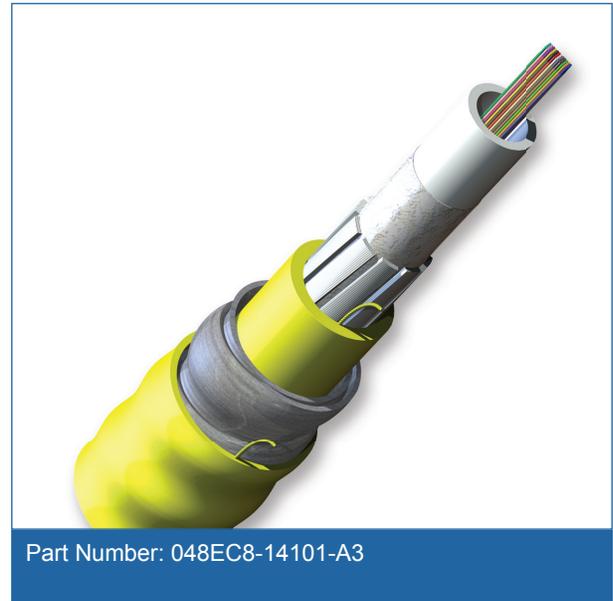# Ribbon Interlocking Armored Cable, Plenum
48 F, Single-mode (OS2)

CORNING

Corning ribbon interlocking armored plenum cables are designed for use in plenum, riser and general-purpose environments for intrabuilding backbone and horizontal installations. These cables are standard ribbon plenum cables placed inside spirally wrapped aluminum interlocking armor for ruggedness and superior crush resistance. This special construction facilitates routing inside buildings, through riser shafts and air-handling spaces, 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 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.

Part Number: 048EC8-14101-A3

Features and Benefits

Ribbon ID numbers and fiber colors
Easily identifiable

Precise fiber and ribbon geometries
Excellent mass splicing yields
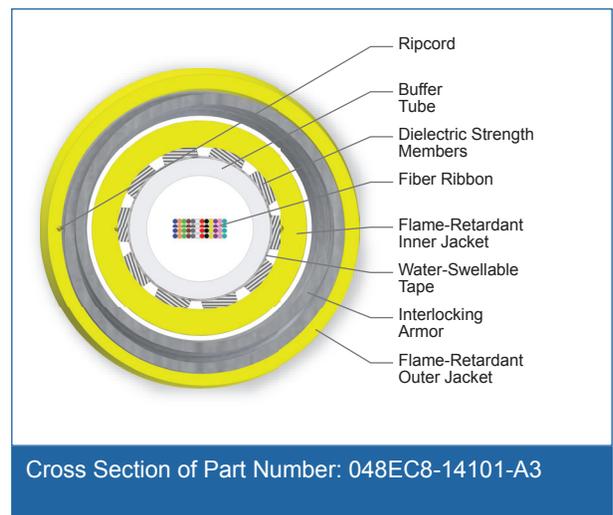
Flame-retardant jacket
Rugged and durable

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

Common installations
Indoor plenum, riser and general building applications

Cross Section of Part Number: 048EC8-14101-A3

Standards

Listings	National Electrical Code® (NEC®) OFNP
Design Criteria	CSA FT-6
Test Criteria	ANSI/ICEA S-83-596

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Ribbon
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	Single-mode (OS2)

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)

Cable Design	
Fiber Count	48
Ribbons per Tube	4
Fibers per Ribbon	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	8.1 mm (0.32 in)
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Nominal Inner Cable Diameter	12.4 mm (0.49 in)
Nominal Outer Diameter	0.62 in (15.7 mm)

CORNING

Ribbon Interlocking Armored Cable, Plenum
48 F, Single-mode (OS2)

Mechanical Characteristics Cable	
Min. Bend Radius Installation	236 mm (9.3 in)
Min. Bend Radius Operation	157 mm (6.2 in)
Weight	212 kg/km (153.3 lb/1000 ft)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/EG

Fiber Specifications

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

Ordering Information

Part Number	048EC8-14101-A3
Product Description	Ribbon Interlocking Armored Cable, Plenum, 48 F, Single-mode (OS2)

RoHS COMPLIANT