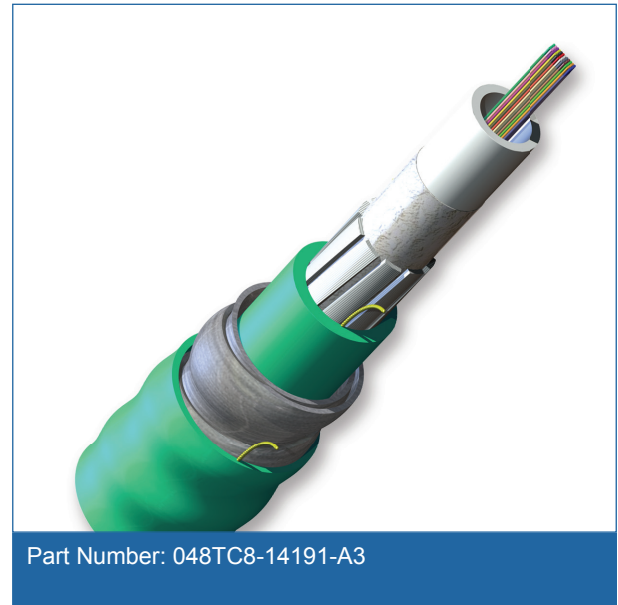


# Ribbon Interlocking Armored Cable, Plenum

48 F, 50 μm multimode, extended 10G distance (OM4+)

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.



## Features and Benefits

### Ribbon ID numbers and fiber colors

Easily identifiable

### Precise fiber and ribbon geometries

Excellent mass splicing yields

### Flame-retardant jacket

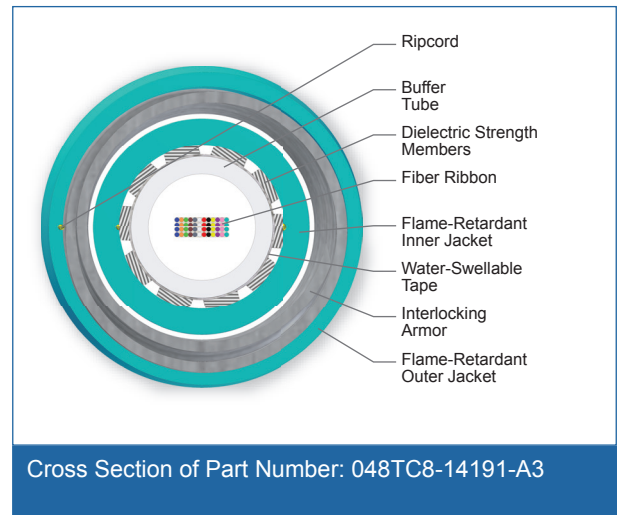
Rugged and durable

### Flexible interlocking armor

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

### Common installations

Indoor plenum, riser and general building applications



## 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	50 µm MM (OM4+)

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	Aqua

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	15.7 mm (0.62 in)

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48 F, 50  $\mu$ m multimode, extended 10G distance (OM4+)



## Mechanical Characteristics Cable

Min. Bend Radius Installation	235.5 mm (9.3 in)
Min. Bend Radius Operation	157 mm (6.2 in)
Weight	215.15 kg/km (144.57 lb/1000 ft)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 $\mu$ m
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	600 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	5350 MHz*km / -

\* Assumes 0.7 dB maximum total connector/splice loss.

\* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50  $\mu$ m multimode fiber macrobend loss  $\leq$  0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

2) Improved attenuation and bandwidth options available.

3) Bend-insensitive single-mode fibers available on request.

4) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

Part Number	048TC8-14191-A3
Product Description	Ribbon Interlocking Armored Cable, Plenum, 48 F, 50 $\mu$ m multimode, extended 10G distance (OM4)

# Ribbon Interlocking Armored Cable, Plenum

48 F, 50  $\mu\text{m}$  multimode, extended 10G distance (OM4+)

The CORNING logo is displayed in white, uppercase letters within a solid blue square.

## Notes



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