

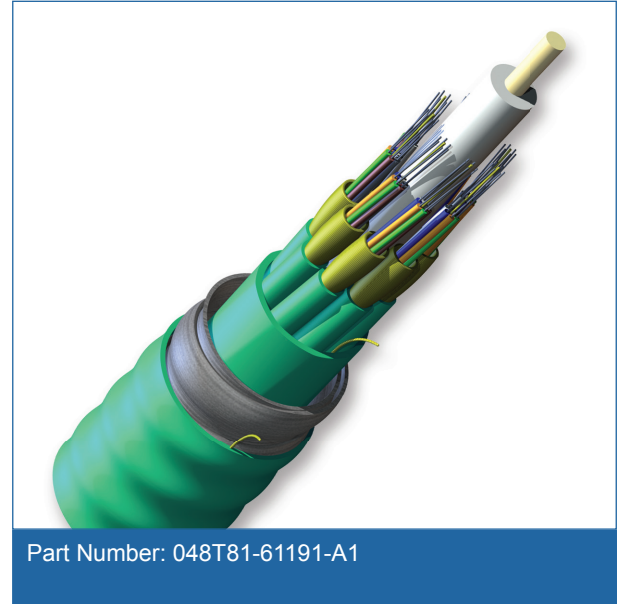
# MIC<sup>®</sup> Unitized Tight-Buffered, Interlocking Armored Cable, Riser

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

CORNING

Corning MIC<sup>®</sup> interlocking armored riser cables are designed for use in intrabuilding backbone and horizontal installations. They use individually jacketed 900  $\mu\text{m}$  buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into 6-, 12-, or 24-fiber jacketed subunits and surrounded by a dielectric central member. The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and up to seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



## Features and Benefits

### Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

### 900 $\mu\text{m}$ Buffered Fibers

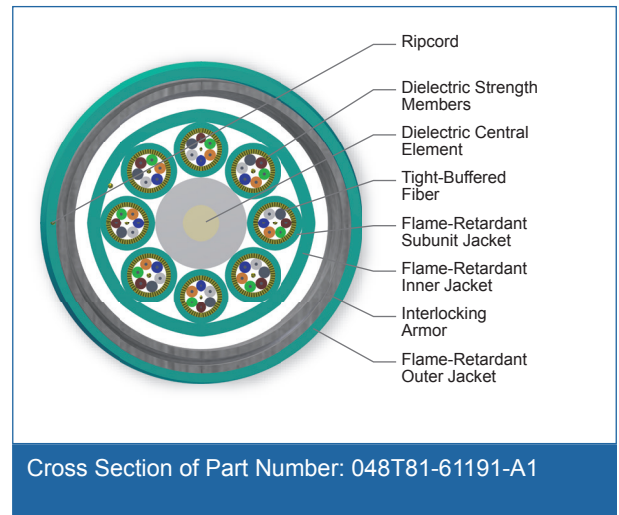
Easy, consistent stripping

### 6- or 12-fiber jacketed subunits

Quick and easy identification

### Flame-retardant jacket

Rugged and durable



## Standards

### Listings

National Electrical Code<sup>®</sup>  
(NEC<sup>®</sup>) OFCR, FT-4

### Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596

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## Specifications

### General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Riser (OFCR)
Fiber Category	50 µm MM (OM4+)

### 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)

### Cable Design

Central Element	Jacketed GRP
Fiber Count	48
Number of Active Tubes	8
Subunit Color	Aqua
Number of Fibers per Subunit	6
Subunit Diameter	4.40 mm (0.17 in)
Tight buffer color subunit	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	10
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	17.8 mm (0.69 in)
Nominal Outer Diameter	24.9 mm (0.98 in)
Weight	445.9 kg/km (299.6 lb/1000 ft)

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## Mechanical Characteristics Cable

Min. Bend Radius Installation	374 mm (14.7 in)
Min. Bend Radius Operation	249 mm (9.8 in)

## 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 µm
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 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 / -

## Ordering Information

Part Number	048T81-61191-A1
Product Description	MIC <sup>®</sup> Unitized Tight-Buffered, Interlocking Armored Cable, Riser, 48 F, 50 µm multimode, extended 10G distance (OM4)



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