

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

144 F, 50  $\mu\text{m}$  multimode (OM4)

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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

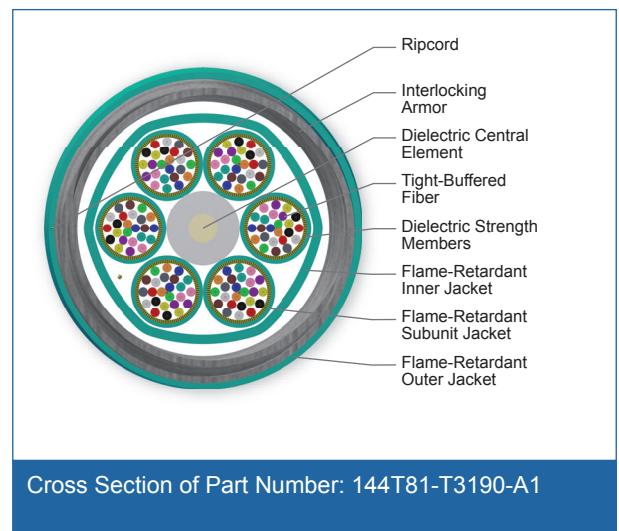
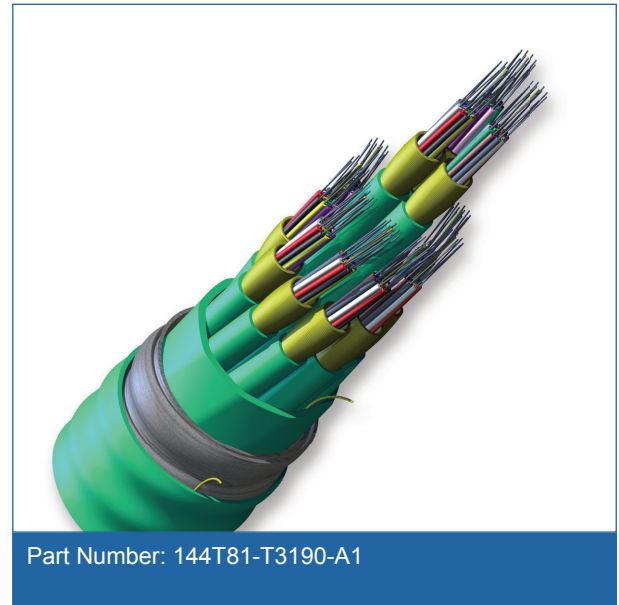
## Standards

### 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	144
Number of Active Tubes	6
Subunit Color	Aqua
Number of Fibers per Subunit	24
Subunit Diameter	6.80 mm (0.27 in)
Tight buffer color subunit	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight-Buffer Color Subunit, Layer 1	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tight Buffer Color Subunit, Layer 2	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Number of Ripcords	14
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	24.6 mm (.97 in)
Nominal Outer Diameter	31.3 mm (1.23 in)

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## Mechanical Characteristics Cable

Weight	672.7 kg/km (452.03 lb/1000 ft)
Min. Bend Radius Installation	469.5 mm (18.48 in)
Min. Bend Radius Operation	313 mm (12.32 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
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -

## Ordering Information

Part Number	144T81-T3190-A1
Product Description	MIC <sup>®</sup> Unitized Tight-Buffered, Interlocking Armored Cable, Riser, 144 F, 50 µm multimode (OM4)
EAN Code	4056418167596



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