

MIC[®] Tight-Buffered, Interlocking Armored Cable, Riser

12 F, 50 μ m multimode, extended 10G distance (OM4)

CORNING

Corning MIC[®] interlocking armored riser cables are designed for use in intrabuilding backbone and horizontal installations. They use individually jacketed 900 μ 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 six times the crush protection of non-interlocking armored 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

Six times crush protection

Buffered fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

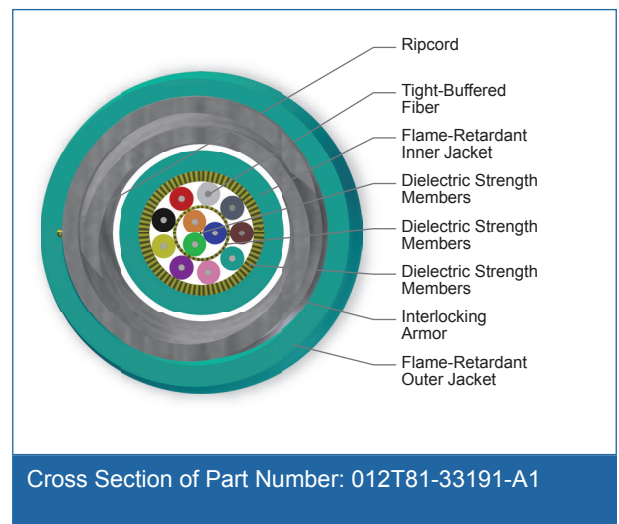
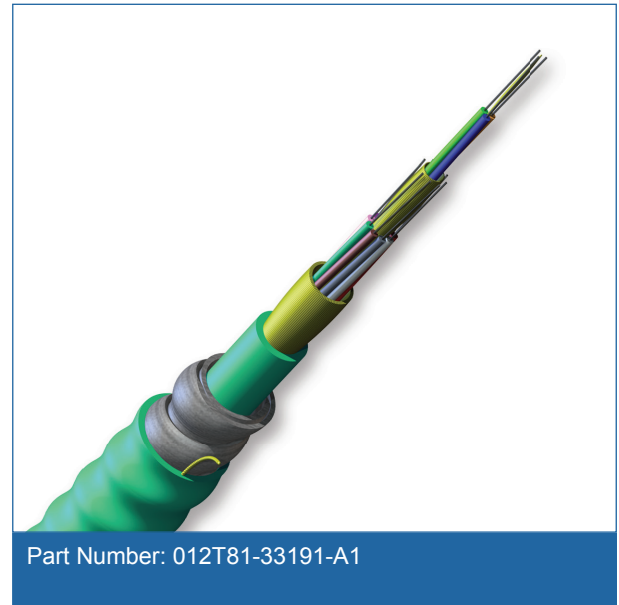
Standards

Listings

National Electrical Code[®]
(NEC[®]) OFCR, CSA FT-4,
ICEA S-83-596

Design and Test Criteria

UL-1666 (for riser and general building applications)



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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 (OFRCR) |
| 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 | Yarn |
| Fiber Count | 12 |
| Tight Buffer Color | Blue, Orange, Green |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Tight Buffer Color, Layer 2 | Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Tensile Strength Elements and/or Armoring - Layer 2 | 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, ≤12F | 660 N (150 lbf) |
| Max. Tensile Strength, Short-Term, >12F | 1320 N (300 lbf) |
| Max. Tensile Strength, Long-Term, ≤12F | 200 N (45 lbf) |
| Max. Tensile Strength, Long-Term, >12F | 400 N (90 lbf) |
| Weight | 105.0 kg/km (70.6 lb/1000 ft) |
| Nominal Outer Diameter | 11.3 mm (0.44 in) |

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Mechanical Characteristics Cable

| | |
|-------------------------------|------------------|
| Nominal Inner Cable Diameter | 6.1 mm (0.24 in) |
| Min. Bend Radius Installation | 170 mm (6.7 in) |
| Min. Bend Radius Operation | 113 mm (4.4 in) |

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 | 012T81-33191-A1 |
| Product Description | MIC [®] Tight-Buffered, Interlocking Armored Cable, Riser, 12 F, 50 µm multimode, extended 10G distance (OM4) |
| EAN Code | 4056418148267 |



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