

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

6 F, 50 μm multimode (OM2)

CORNING

Corning Cable Systems MIC[®] Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII[®] Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into 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 over 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, purple, 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

TBII[®] Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

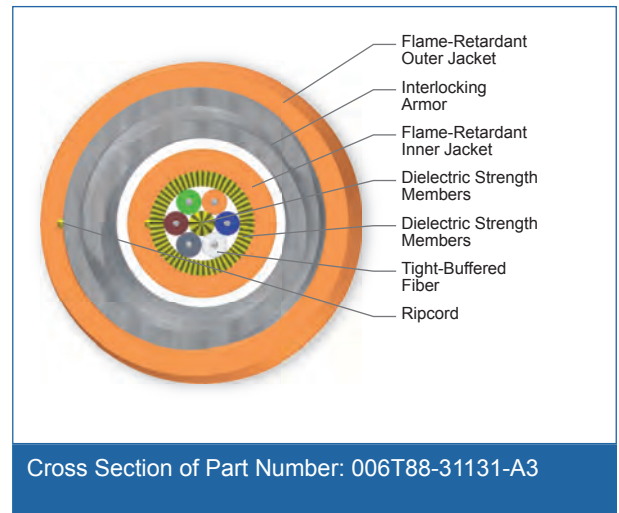
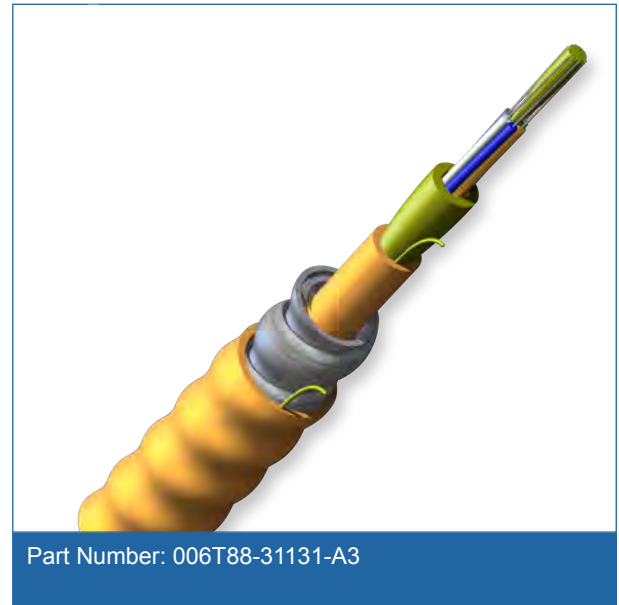
Standards

Approval and Listings

National Electrical Code[®] (NEC[®]) OFCP, CSA FT-6, ICEA S-83-596

Flame Resistance

NFPA 262 (for plenum, riser and general building applications)



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Specifications

| General Specifications | |
|------------------------|--|
| Environment | Indoor |
| Application | General Purpose Horizontal, Vertical Riser, Plenum |
| Cable Type | Tight-Buffered |
| Product Type | Interlocking armor |
| Flame Rating | Plenum (OFCP) |
| Fiber Category | 50 µm MM (OM2) |

| 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 | |
|---|--|
| Central Element | Yarn |
| Fiber Count | 6 |
| Tight Buffer Color | Blue, Orange, Green, Brown, Slate, White |
| 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 | Orange |

| Mechanical Characteristics Cable | |
|------------------------------------|---------------------------|
| Nominal Inner Cable Diameter | 5.3 mm (0.21 in) |
| Nominal Outer Diameter | 12.2 mm (0.48 in) |
| Weight | 138 kg/km (92 lb/1000 ft) |
| Max. Tensile Strengths, Short-Term | 440 N (100 lbf) |
| Max. Tensile Strengths, Long-Term | 132 N (30 lbf) |
| Min. Bend Radius Installation | 183 mm (7.2 in) |
| Min. Bend Radius Operation | 122 mm (4.8 in) |

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Fiber Specifications

| Optical Characteristics (cabled) | |
|---|-------------------------|
| Fiber Type | Multimode |
| Fiber Core Diameter | 50 µm |
| Fiber Category | OM2 |
| Fiber Code | T |
| Performance Option Code | 31 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 2.8 dB/km / 1 dB/km |
| Min. Overfilled Launch (OFL) Bandwidth | 700 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 950 MHz*km / - |
| Serial 1 Gigabit Ethernet | 750 m / 600 m |
| Serial 10 Gigabit Ethernet | 150 m / - |

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 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 Cable Systems Customer Care Representative for additional information.

Ordering Information

| | |
|---------------------|---|
| Part Number | 006T88-31131-A3 |
| Product Description | MIC [®] Tight-Buffered, Interlocking Armored Cable, Plenum, 6 F, 50 µm multimode (OM2) |



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

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