

MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM2)

CORNING

Corning Cable Systems MIC® Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

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

900 µm TBII® Buffered Fibers

Easy, consistent stripping

All-dielectric construction

Requires no grounding or bonding

Flame-retardant jacket

Rugged and durable

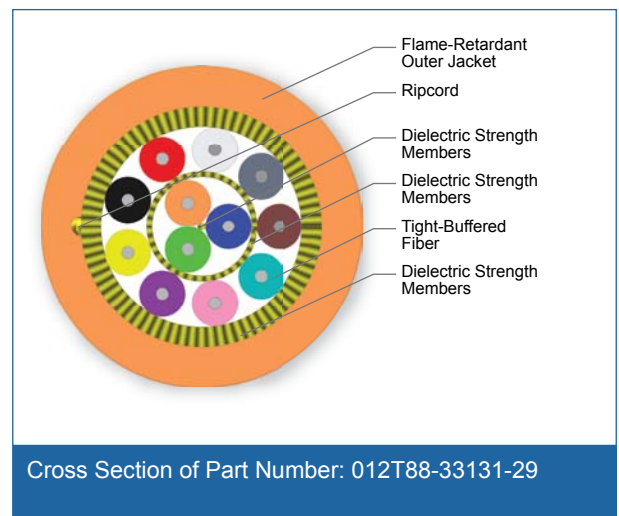
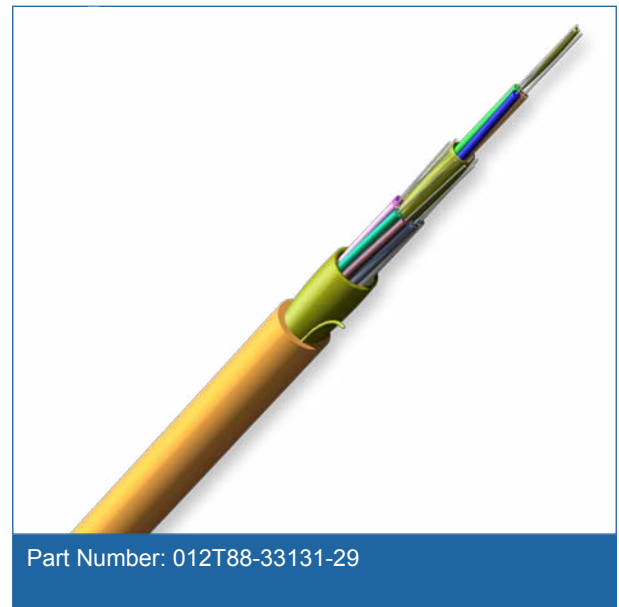
Standards

Approval and Listings

National Electrical Code® (NEC®) OFNP, 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 | Distribution |
| Flame Rating | Plenum (OFNP) |
| 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 | 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 | 1 |
| Outer Jacket Material | Flame-retardant |
| Outer Jacket Color | Orange |

Mechanical Characteristics Cable

| | |
|------------------------------------|--------------------------|
| Max. Tensile Strengths, Short-Term | 440 N (100 lbf) |
| Max. Tensile Strengths, Long-Term | 132 N (30 lbf) |
| Nominal Outer Diameter | 6.1 mm (0.24 in) |
| Weight | 37 kg/km (26 lb/1000 ft) |
| Min. Bend Radius Installation | 92 mm (3.6 in) |
| Min. Bend Radius Operation | 31 mm (1.2 in) |

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Fiber Specifications

| Optical Characteristics (cabled) | |
|---|-------------------------|
| Fiber Core Diameter | 50 µm |
| Fiber Type | Multimode |
| 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 | 012T88-33131-29 |
| Product Description | MIC® Tight-Buffered Cable, Plenum, 12 F, 50 µm multimode (OM2) |



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