

MIC® DX Tight-Buffered Armored Cable, Riser

24 F, 50 µm multimode (OM2)

CORNING

Corning Cable Systems MIC® DX Armored Riser Cables are standard MIC subunits placed inside a dielectric armor for ruggedness and superior crush resistance without the conductive properties of traditional armor. These cables are designed for use in intrabuilding backbone and horizontal installations. Individually jacketed TBII® Buffered Fibers enable easy, consistent stripping and facilitate termination.

The fibers are stranded around a dielectric central member that is protected by a flexible, all-dielectric armor offering easy, one-step installation and over four 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

Dielectric armor

Four times crush protection compared to unarmored

TBII® Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Easy armor removal

Increased safety and speed at installation

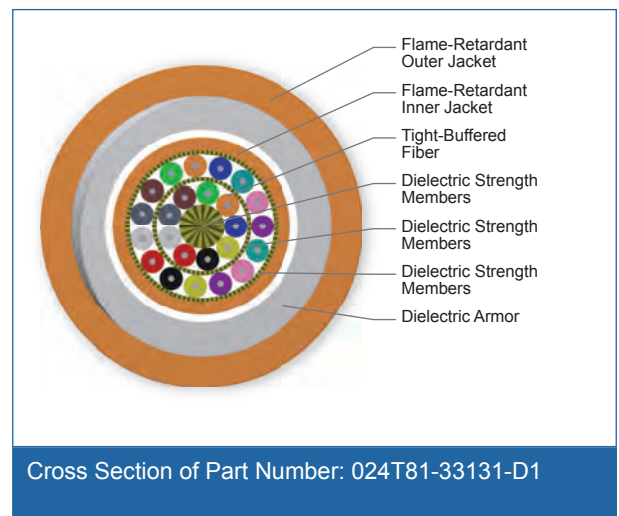
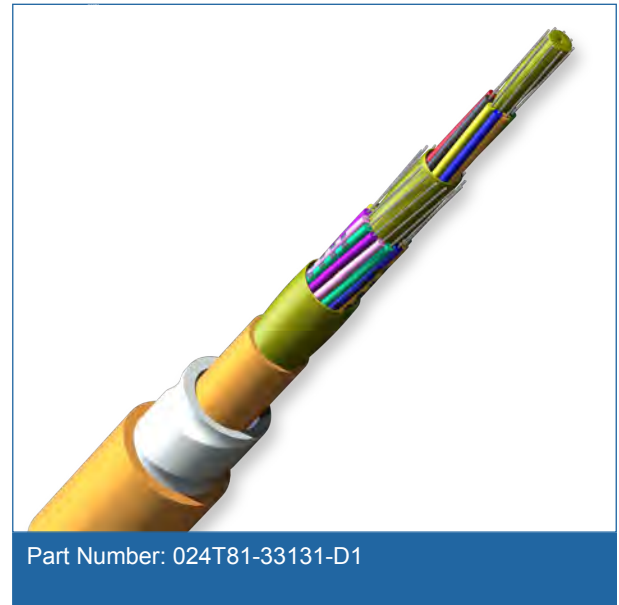
Standards

Approval and Listings

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

Flame Resistance

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 | Dielectric armor |
| Flame Rating | Riser (OFNR) |
| Fiber Category | 50 µm MM (OM2) |

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

| | |
|---|--|
| Fiber Count | 24 |
| Tight Buffer Color | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Tight Buffer Color, Layer 2 | Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua* |
| Tensile Strength Elements and/or Armoring - Layer 2 | Dielectric strength members |
| Inner Jacket Material | Flame-retardant |
| Tensile Strength Elements and/or Armoring - Layer 3 | Dielectric armor |
| Outer Jacket Material | Flame-retardant |
| Outer Jacket Color | Orange |

Mechanical Characteristics Cable

| | |
|------------------------------------|--------------------------------|
| Nominal Inner Cable Diameter | 8 mm (0.31 in) |
| Nominal Outer Diameter | 13 mm (0.5 in) |
| Weight | 156.7 kg/km (105.3 lb/1000 ft) |
| Max. Tensile Strengths, Short-Term | 2600 N (585 lbf) |
| Max. Tensile Strengths, Long-Term | 867 N (195 lbf) |

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Mechanical Characteristics Cable

| | |
|-------------------------------|-----------------|
| Min. Bend Radius Installation | 194 mm (7.6 in) |
| Min. Bend Radius Operation | 130 mm (5.1 in) |

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 | 024T81-33131-D1 |
| Product Description | MIC® DX Tight-Buffered Armored Cable, Riser, 24 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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