

# MIC® Tight-Buffered Cable, Riser

18 F, 62.5 µm multimode (OM1)

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Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding back-bone and horizontal installations. These multifiber cables use 900 µm buffered fibers to enable easy, consistent stripping and 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, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Riser Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and the ICEA S-83-596 test criteria. They are OFNR and FT-4 listed for riser and general-purpose use.

*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

### 900 µm Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

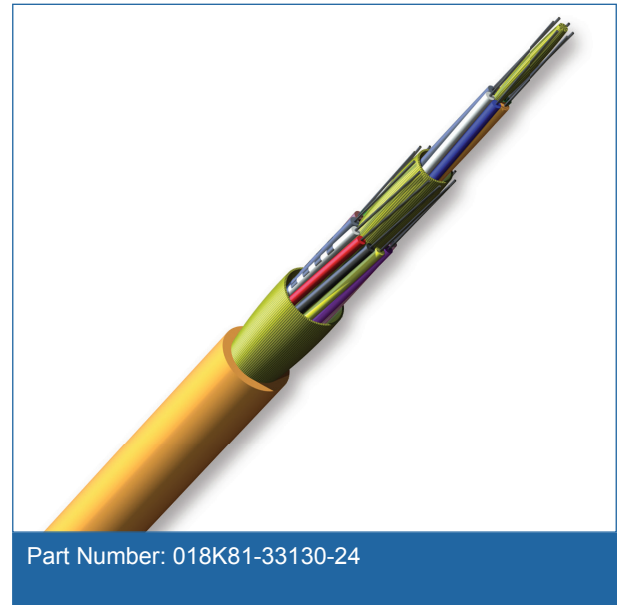
## Standards

### Listings

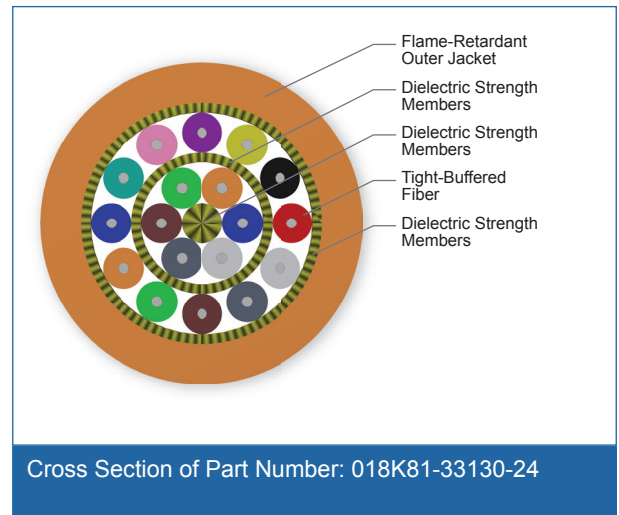
National Electrical Code®  
(NEC®) OFNR, FT-4

### Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596



Part Number: 018K81-33130-24



Cross Section of Part Number: 018K81-33130-24

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## Specifications

### General Specifications

|                |                                            |
|----------------|--------------------------------------------|
| Environment    | Indoor                                     |
| Application    | General Purpose Horizontal, Vertical Riser |
| Cable Type     | Tight-Buffered                             |
| Product Type   | Distribution                               |
| Flame Rating   | Riser (OFNR)                               |
| Fiber Category | 62.5 µm MM (OM1)                           |

### 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                                         | 18                                                                                  |
| Tight Buffer Color                                  | Blue, Orange, Green, Brown, Slate, White                                            |
| 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, Blue*, Orange*, Green* |
| Tensile Strength Elements and/or Armoring - Layer 2 | Dielectric strength members                                                         |
| Outer Jacket Material                               | Flame-retardant                                                                     |
| Outer Jacket Color                                  | Orange                                                                              |

### 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)                |
| Nominal Outer Diameter                  | 6.80 mm (0.26 in)             |
| Weight                                  | 37.1 kg/km (24.83 lb/1000 ft) |
| Min. Bend Radius Installation           | 97.5 mm (3.83 in)             |
| Min. Bend Radius Operation              | 68 mm (2.67 in)               |

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## Fiber Specifications

| Optical Characteristics (cabled)        |                         |
|-----------------------------------------|-------------------------|
| Fiber Core Diameter                     | 62.5 µm                 |
| Fiber Category                          | OM1                     |
| Fiber Code                              | K                       |
| Performance Option Code                 | 30                      |
| Wavelengths                             | 850 nm / 1300 nm        |
| Maximum Attenuation                     | 3.4 dB/km / 1.0 dB/km   |
| Serial 1 Gigabit Ethernet               | 300 m / 550 m           |
| Serial 10 Gigabit Ethernet              | 33 m / -                |
| Min. Overfilled Launch (OFL) Bandwidth  | 200 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 220 MHz*km / -          |

Notes: 1) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Part Number         | 018K81-33130-24                                                             |
| Product Description | MIC <sup>®</sup> Tight-Buffered Cable, Riser, 18 F, 62.5 µm multimode (OM1) |
| EAN Code            | 4056418198668                                                               |



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