

# MIC® Tight-Buffered Cable, Riser

4 F, 50 µm multimode (OM3)

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Corning Cable Systems MIC® Riser Cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® 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. 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

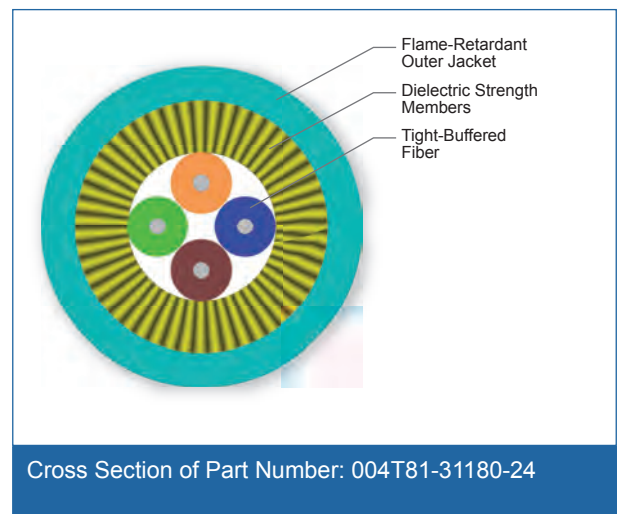
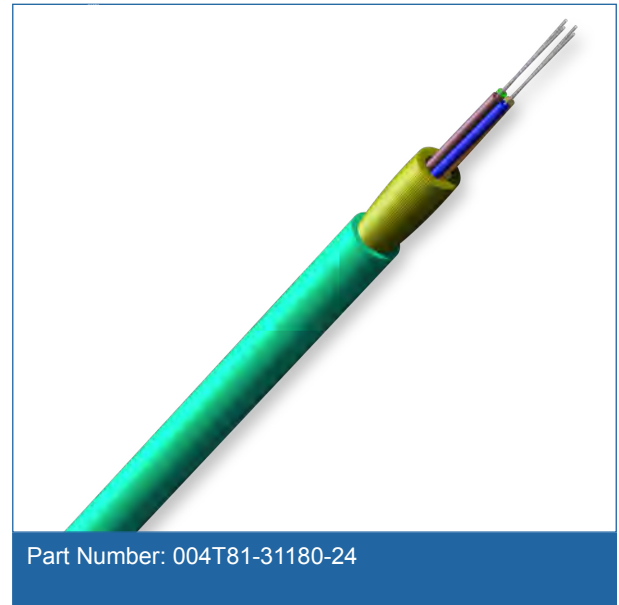
## Standards

### Approval and Listings

National Electrical Code® (NEC®) 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	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

### 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	4
Tight Buffer Color	Blue, Orange, Green, Brown
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

### Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	5 mm (0.2 in)
Weight	22 kg/km (15 lb/1000 ft)
Min. Bend Radius Installation	75 mm (3 in)
Min. Bend Radius Operation	25 mm (1 in)

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## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

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	004T81-31180-24
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Riser, 4 F, 50 µm multimode (OM3)



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