

# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

12 F, 50  $\mu$ m multimode (OM2)

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Corning Cable Systems MIC<sup>®</sup> Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multi-fiber cables use 900  $\mu$ m TBII<sup>®</sup> 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<sup>®</sup> (NEC<sup>®</sup>) Article 770 and are OFNP and FT-6 listed.

## Features and Benefits

### 900 $\mu$ m TBII<sup>®</sup> Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

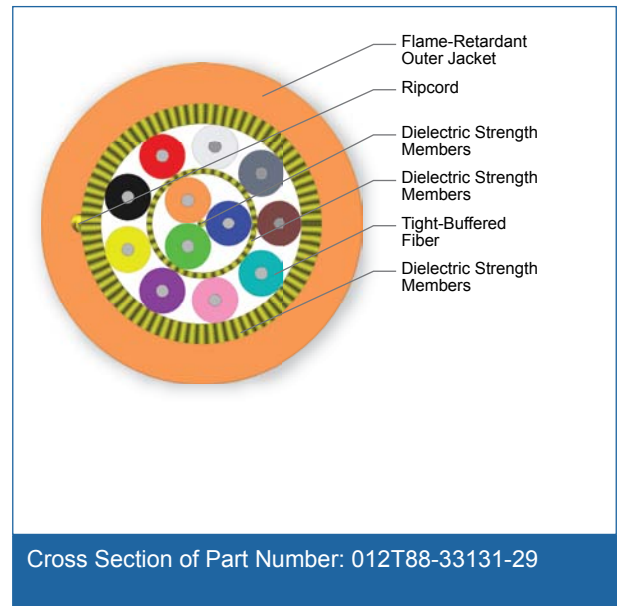
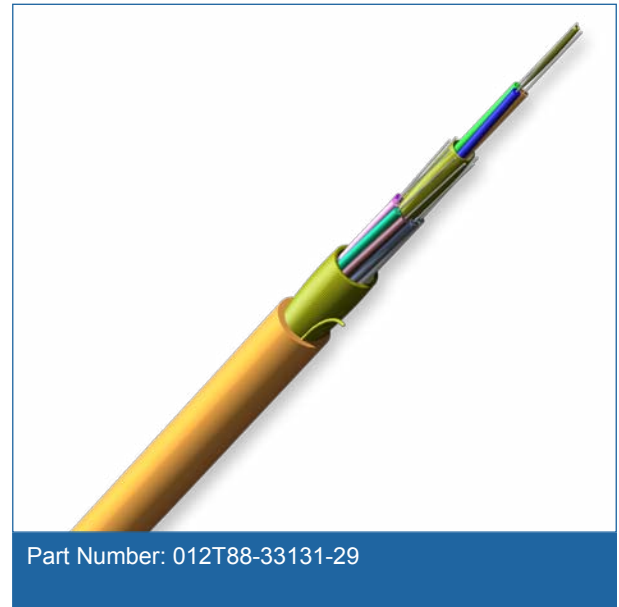
## Standards

### Approval and Listings

National Electrical Code<sup>®</sup>  
(NEC) OFNP, CSA FT-6,  
ICEA S-83-596

### Flame Resistance

NFPA 262 (for plenum, riser  
and general building appli-  
cations)



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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 strengths elements / armoring - Layer 1	Dielectric strength members
Tight buffer color, layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile strengths elements / armoring - Layer 2	Dielectric strength members
Number of Ripcords	1
Outer jacket material	Flame-retardant
Outer jacket color	Orange

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## 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)

## 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 Service Representative for additional information

## Ordering Information

Order Number	012T88-33131-29
Product description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 12 F, 50 µm multimode (OM2)

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