

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

24 F, 50  $\mu$ m multimode (OM3)

CORNING

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

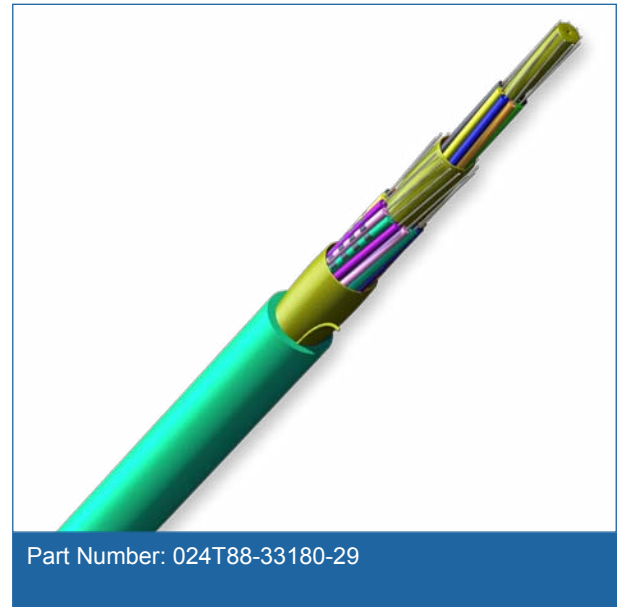
Rugged and durable

## Standards

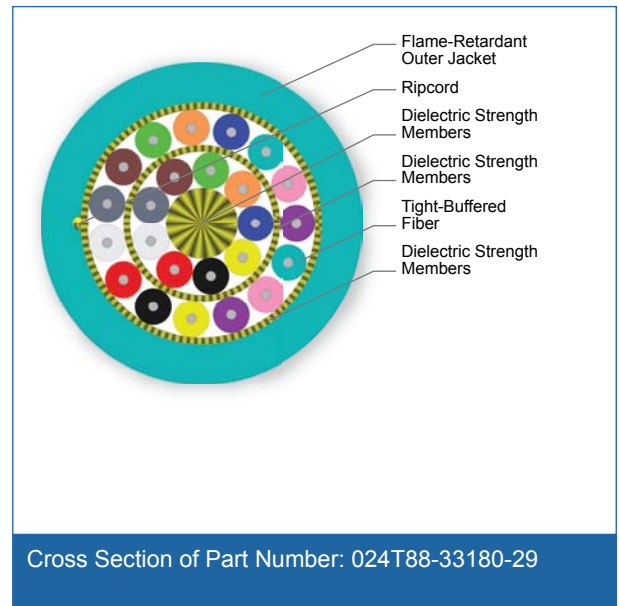
### Approval and Listings

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

### Flame Resistance



Part Number: 024T88-33180-29



Cross Section of Part Number: 024T88-33180-29



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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 (OM3)

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)

Design	
Central element	Yarn
Fiber Count	24
Tight buffer color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile strengths elements / armoring	Dielectric strength members Dielectric strength members
Tight buffer color, layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Ripcord	1
Outer jacket material	Flame-retardant
Outer jacket color	Aqua

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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	7.8 mm (0.31 in )
Weight	64.0 kg/km (45.0 lb/1000 ft)
Min. Bend Radius Installation	117.0 mm (4.6 in)
Min. Bend Radius Operation	78.0 mm (3.1 in)

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50.0 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 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™/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 Service Representative for additional information

## Ordering Information

Order Number	024T88-33180-29
Product description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 24 F, 50 µm multimode (OM3)

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The logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

## Notes

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