

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

12 F, Single-mode (OS2)

CORNING

Corning MIC<sup>®</sup> plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900  $\mu\text{m}$  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.

*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  $\mu\text{m}$  buffered fibers**  
Easy, consistent stripping

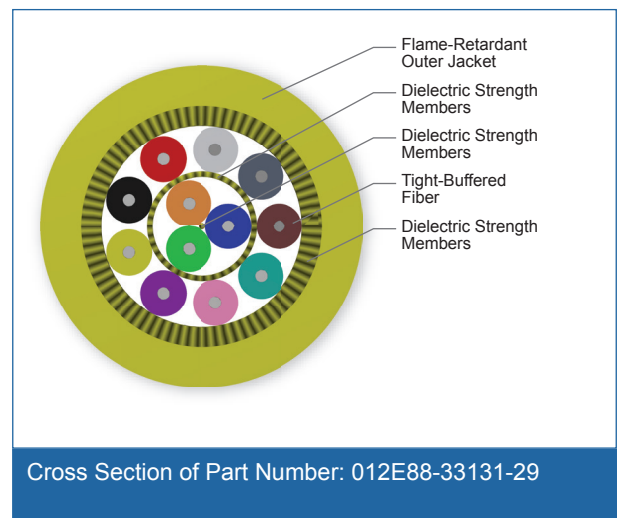
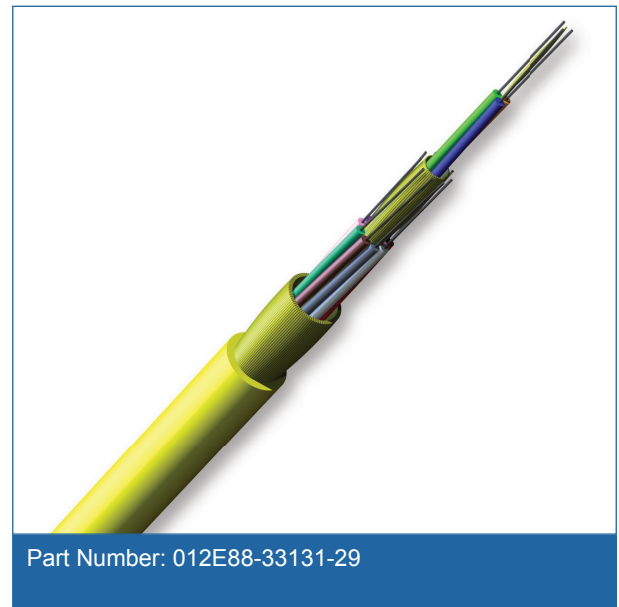
**All-dielectric construction**  
Requires no grounding or bonding

**Flame-retardant jacket**  
Rugged and durable

## Standards

**Listings** National Electrical Code<sup>®</sup>  
(NEC<sup>®</sup>) OFNP, FT-6

**Design and Test Criteria** NFPA 262 and CSA FT-6  
(for plenum, riser and general building applications);  
ICEA S-83-596



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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	Single-mode (OS2)

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 Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term, ≤12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (150 lbf)
Max. Tensile Strength, Long-Term, ≤12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (45 lbf)
Nominal Outer Diameter	6.0 mm (0.24 in)
Weight	33.8 kg/km (23 lb/1000 ft)
Min. Bend Radius Operation	60 mm (2.4 in)
Min. Bend Radius Installation	92 mm (3.6 in)

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## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	SMF-28e <sup>®</sup> fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.4 dB/km

## Ordering Information

Part Number	012E88-33131-29
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 12 F, Single-mode (OS2)
EAN Code	4056418188126



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