MIC® Tight-Buffered Cable, Plenum 2 F, Single-mode (OS2)

Part Number:
002E88-31131-29

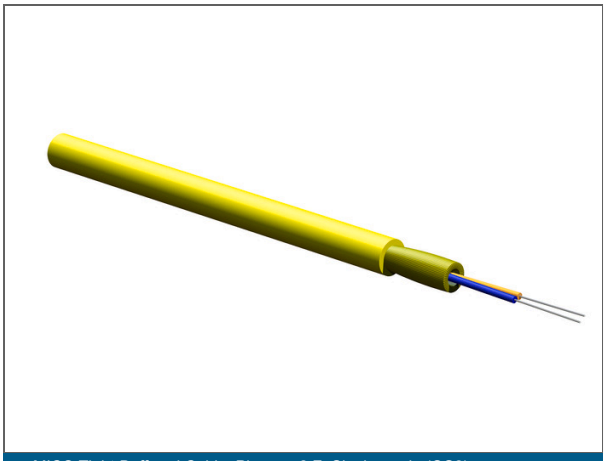
Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by 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® (NEC®) Article 770 and are OFNP and FT-6 listed.

Features and Benefits

900 µm buffered fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable



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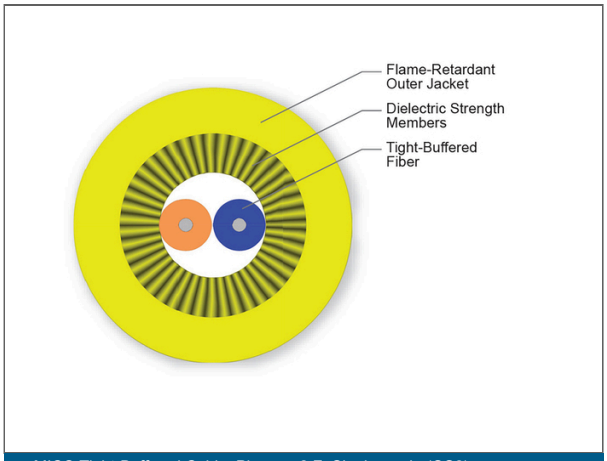

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Specifications

General Specifications	
Installation Methods	Horizontal, Plenum, Riser
Cable Type	Tight-Buffered
Environment	Indoor
Product Type	Distribution
Fiber Category	Single-mode (OS2)
Flame Rating	Plenum (OFNP)
Cable geometry	Round

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFNR, UL-1666, CSA FT-4
Design and Test Criteria	ICEA S-83-596

Environmental Conditions	
Temperature Range, Installation	0 °C to 60 °C (32 °F to 140 °F)
Temperature Range, Operation	0 °C to 70 °C (32 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	2
Outer Jacket Color	Yellow
Outer Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color	Blue, Orange

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Cable Design	
Flame Rating	Plenum (OFNP)

Mechanical Specifications	
Max. Tensile Strength, Long-Term, ≤12F	132 N (29.67 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (44.96 lbf)
Max. Tensile Strength, Short-Term, ≤12F	440 N (98.92 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (148.37 lbf)
Min. Bend Radius Installation	75 mm (2.95 in)
Min. Bend Radius Operation	50 mm (1.97 in)
Nominal Outer Diameter	5 mm (0.2 in)

Optical Characteristics	
Fiber Code	E
Performance Option Code	31
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	Single-mode (OS2)
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.4 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D

Dimensions	
Cable Weight	2.01 kg/km (1.35 lb/1000 ft)

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