

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum 12 F, Single-mode (OS2)

CORNING

Part Number:
012E88-33131-A3

Corning MIC® interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed 900 µm buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed subunits and surrounded by a dielectric central member. The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and up to seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

Features and Benefits

Flexible, interlocking armor design

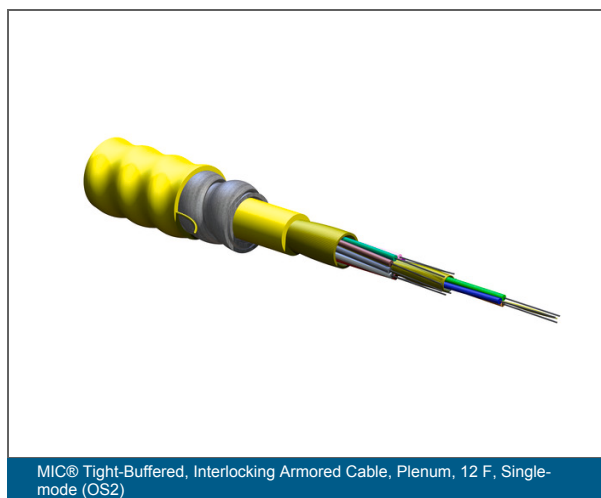
Seven times crush protection compared to non-armored cables

TBII buffered fibers

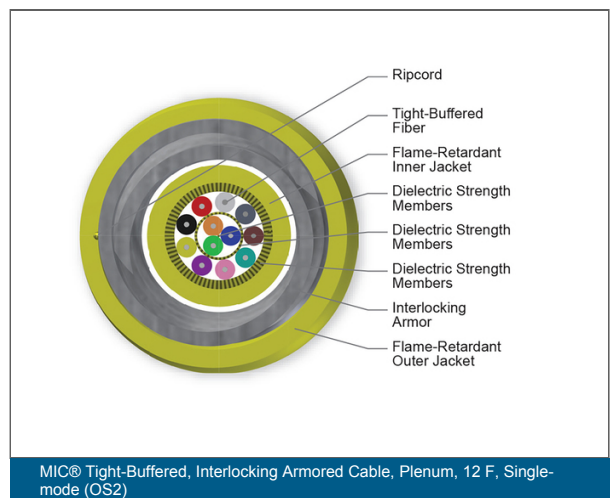
Easy, consistent stripping

Flame-retardant jacket

Rugged and durable



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Specifications

General Specifications

Installation Methods	Horizontal, Plenum, Riser
Cable Type	Tight-Buffered
Environment	Indoor
Product Type	Interlocking Armor
Fiber Category	Single-mode (OS2)
Flame Rating	Plenum (OFCP)
Cable geometry	Round

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFCP, NFPA 262, CSA FT-6
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	12
Number of Ripcords	2
Outer Jacket Color	Yellow
Outer Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members

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Cable Design

Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Inner Jacket Material	Flame-retardant
Tight Buffer Color, Layer 1	Blue, Orange, Green
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Flame Rating	Plenum (OFCP)

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, Long-Term	132 N (29.67 lbf)
Max. Tensile Strength, Short-Term, ≤12F	440 N (98.92 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (148.37 lbf)
Max. Tensile Strength, Short-Term	440 N (98.92 lbf)
Min. Bend Radius Installation	170 mm (6.69 in)
Min. Bend Radius Operation	113 mm (4.45 in)
Nominal Inner Cable Diameter	6 mm (0.24 in)
Nominal Outer Diameter	11.3 mm (0.44 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

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Dimensions	
Cable Weight	113 kg/km (75.93 lb/1000 ft)



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