

MIC[®] Tight-Buffered, Interlocking Armored Cable, Plenum

6 F, Single-mode (OS2)

CORNING

Corning Cable Systems MIC[®] Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multi-fiber cables use individually jacketed TBII[®] 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 over 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 unarmored cables

TBII[®] Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

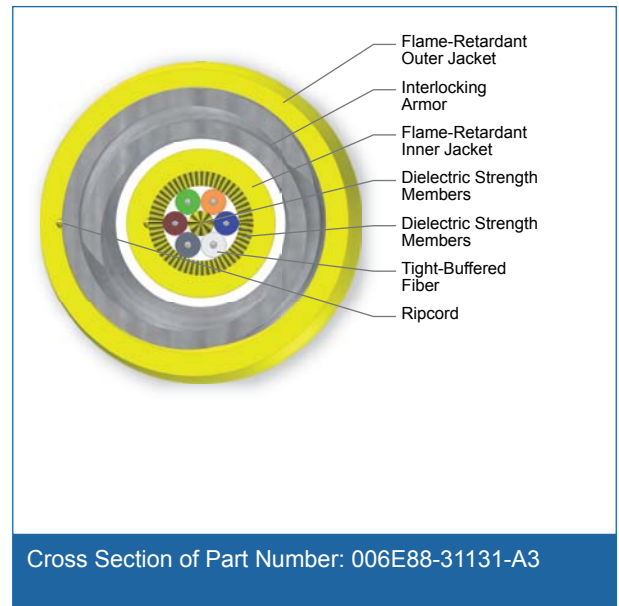
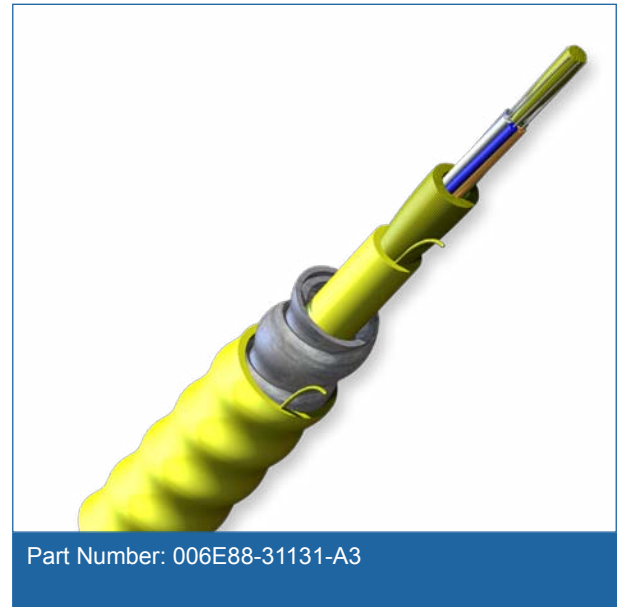
Rugged and durable

Standards

Approval and Listings

National Electrical Code[®]
(NEC[®]) OFCP, CSA FT-6,
ICEA S-83-596

Flame Resistance



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Specifications

General Specifications	
Environment	Indoor
Applications	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
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	6
Tight buffer color	Blue, Orange, Green, Brown, Slate, White
Tensile strengths elements / armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Inner jacket material	Flame-retardant
Tensile strengths elements / armoring - Layer 3	Interlocking armor
Outer jacket material	Flame-retardant
Outer jacket color	Yellow

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Mechanical Characteristics Cable

Nominal Inner Cable Diameter	5.3 mm (0.21 in)
Nominal Outer Diameter	12.2 mm (0.48 in)
Weight	138 kg/km (92 lb/1000 ft)
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Min. Bend Radius Installation	183 mm (7.2 in)
Min. Bend Radius Operation	122 mm (4.8 in)

Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	80.2 μm
Fiber Type	Single-mode
Fiber Category	OS2
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.5 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

* ITU-T G.652 D compliant

- Notes: 1) Improved attenuation and bandwidth options available
2) Bend-insensitive single-mode fibers available on request
3) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Order Number	006E88-31131-A3
Product description	MIC [®] Tight-Buffered, Interlocking Armored Cable, Plenum, 6 F, Single-mode (OS2)

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