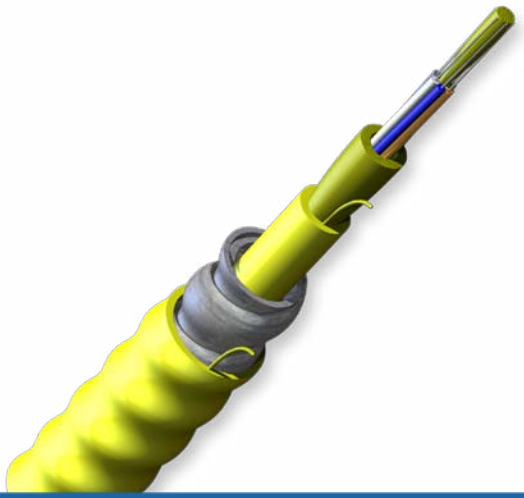
MIC® Tight-Buffered, Interlocking Armored Cable, Riser

6 F, Single-mode (OS2)

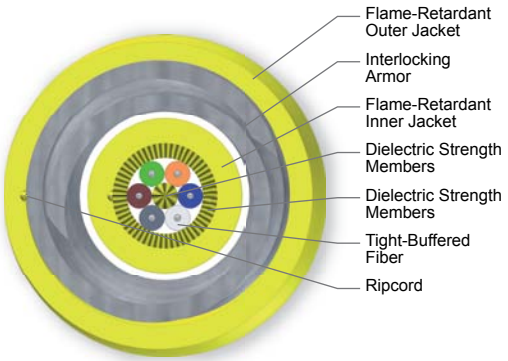
CORNING

Corning Cable Systems MIC® Interlocking Armored Riser Cables are designed for use in intrabuilding backbone and horizontal installations. They 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.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, 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 number shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



Part Number: 006E81-31131-A1



Cross Section of Part Number: 006E81-31131-A1

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®) OFCR, CSA FT-4, ICEA S-83-596
Flame Resistance	UL-1666 (for riser and general building applications)

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Riser (OFCR)
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	6
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Weight	121 kg/km (81 lb/1000 ft)
Nominal Inner Cable Diameter	5.5 mm (0.22 in)
Nominal Outer Diameter	11.9 mm (0.47 in)
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Min. Bend Radius Installation	179 mm (7 in)
Min. Bend Radius Operation	119 mm (4.7 in)

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Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	8.2 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 Care Representative for additional information

Ordering Information

Part Number	006E81-31131-A1
Product Description	MIC® Tight-Buffered, Interlocking Armored Cable, Riser, 6 F, Single-mode (OS2)

RoHS COMPLIANT

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