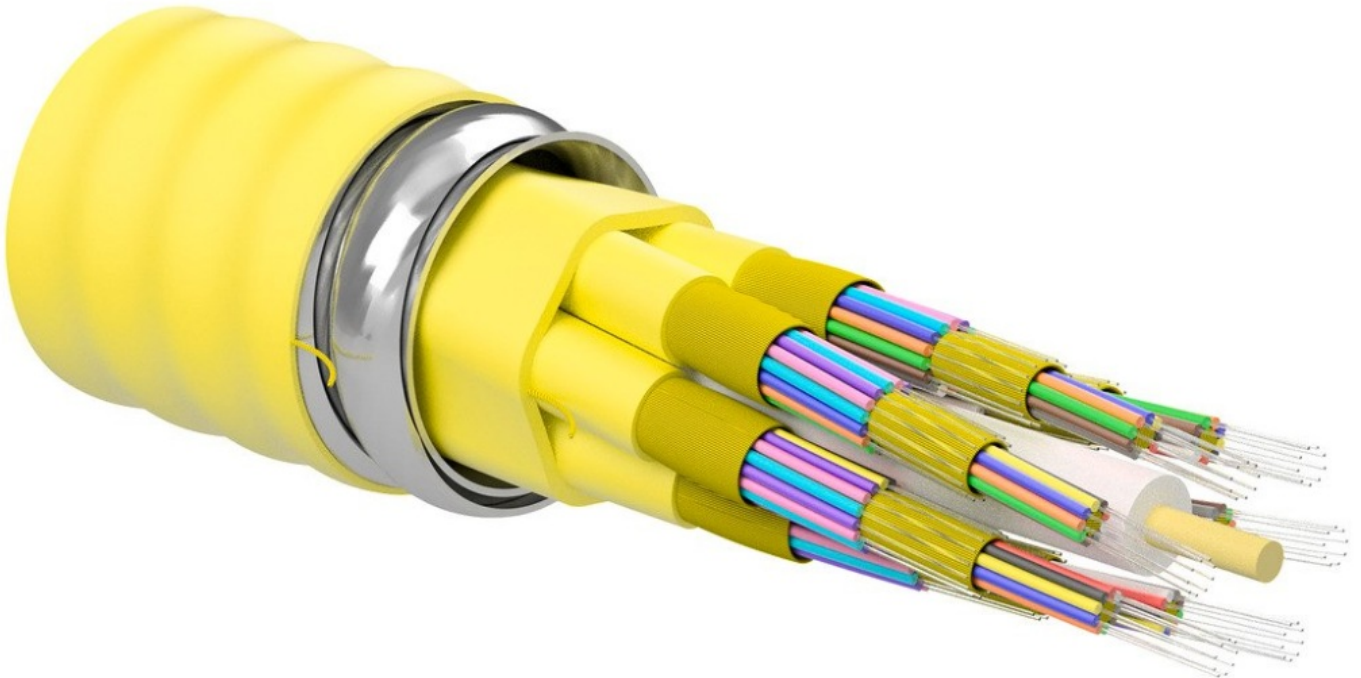


CORNING 144E81-Y3131-A1 MIC Unitized Tight Buffered Interlocking Armored Cable Owner's Manual

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CORNING 144E81-Y3131-A1 MIC Unitized Tight Buffered Interlocking Armored Cable



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Important Information

Corning MIC® interlocking armored riser cables are designed for use in intrabuilding backbone and horizontal installations. They use individually jacketed 900 µm buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into 6-, 12-, or 24-fiber 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 six times the crush protection of non-interlocking armored 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, 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](tel:800-743-2675) to order other color options.

Features and Benefits

24-fiber jacketed subunits

Quick and easy identification

Flexible, interlocking armor design

Seven times crush protection compared to non-armored cables

900 µm buffered fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Specifications

General Specifications	
Environment	Indoor
Cable Type	Tight-Buffered
Product Type	Interlocking Armor
Fiber Category	Single-mode (OS2)
Flame Rating	Riser (OFCR)
Application	General Purpose Horizontal
Fiber Count	144

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFCR, FT-4
Flame Test Method	UL-1666 and CSA FT-4 (for riser and general building applications), ICEA S-83-596

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

Cable Design	
Central Element	Jacketed GRP
Fiber Count	144
Number of Ripcords	14
Outer Jacket Color	Yellow
Outer Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring – Layer 1	Dielectric strength members

Cable Design	
Fibers per Subunit	24
Number of Active Tubes	6
Subunit Color	Yellow
Subunit Diameter	6.8 mm (0.27 in)
Tight Buffer Color Subunit	Blue, Orange, Green
Tight-Buffer Color Subunit, Layer 1	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tight Buffer Color Subunit, Layer 2	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Flame Rating	Riser (OFCR)

Mechanical Specifications	
Max. Tensile Strength, Short-Term	1320 N (296.75 lbf)
Min. Bend Radius Installation	469.5 mm (18.48 in)
Min. Bend Radius Operation	313 mm (12.32 in)
Nominal Inner Cable Diameter	24.6 mm (0.97 in)
Nominal Outer Diameter	31.3 mm (1.23 in)

Optical Characteristics	
Fiber Code	E
Fiber Name	SMF-28e+® fiber
Fiber Type	Single-mode
Performance Option Code	31
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.4 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D

Dimensions	
Cable Weight	6727 kg/km (4520.34 lb/1000 ft)


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Customer Support

Corning Optical Communications LLC
4200 Corning Place Charlotte, NC 28216 United States
[800-743-2675](tel:800-743-2675)
FAX: [828-325-5060](tel:828-325-5060)
International: +1-[828-901-5000](tel:828-901-5000)
www.corning.com/opcomm



Documents / Resources

	<p>CORNING 144E81-Y3131-A1 MIC Unitized Tight Buffered Interlocking Armored Cable [pdf] Owner's Manual 144E81-Y3131-A1 MIC Unitized Tight Buffered Interlocking Armored Cable, 144E81-Y3131-A1, MIC Unitized Tight Buffered Interlocking Armored Cable, Unitized Tight Buffered Interlocking Armored Cable, Tight Buffered Interlocking Armored Cable, Buffered Interlocking Armored Cable, Interlocking Armored Cable, Armored Cable, Cable</p>
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References

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- [User Manual](#)

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