

MIC[®] Unitized Tight-Buffered, Interlocking Armored Cable, Riser

144 F, 62.5 μm multimode (OM1)

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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 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, 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 to order other color options.

Features and Benefits

Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

900 μm Buffered Fibers

Easy, consistent stripping

6- or 12-fiber jacketed subunits

Quick and easy identification

Flame-retardant jacket

Rugged and durable

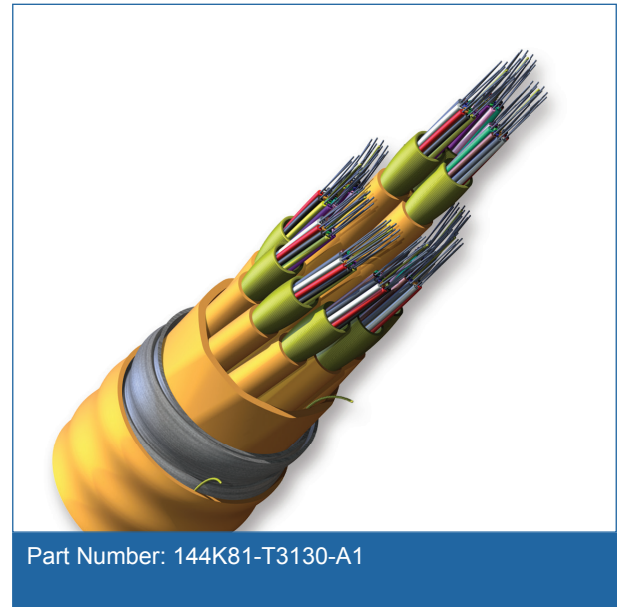
Standards

Listings

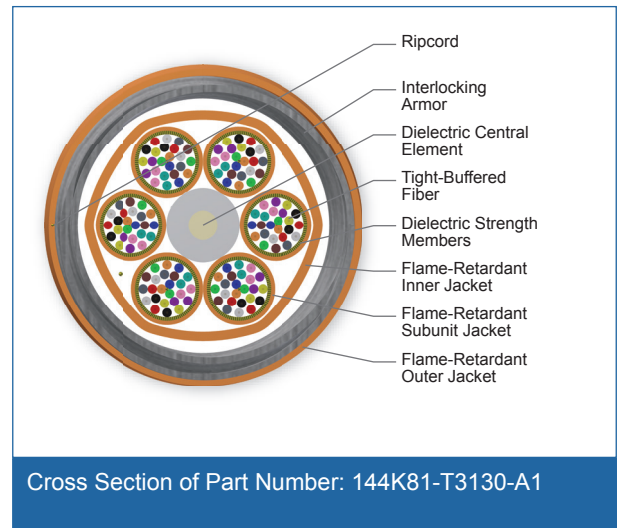
National Electrical Code[®]
(NEC[®]) OFCR, FT-4

Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596



Part Number: 144K81-T3130-A1



Cross Section of Part Number: 144K81-T3130-A1

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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	62.5 μm MM (OM1)

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	Jacketed GRP
Fiber Count	144
Number of Active Tubes	6
Subunit Color	Orange
Number of Fibers per Subunit	24
Subunit Diameter	6.80 mm (0.27 in)
Tight buffer color subunit	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
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
Number of Ripcords	14
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Orange

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Nominal Inner Cable Diameter	24.6 mm (0.97 in)
Nominal Outer Diameter	31.3 mm (1.23 in)

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Mechanical Characteristics Cable

Weight	672.7 kg/km (452.03 lb/1000 ft)
Min. Bend Radius Installation	469.5 mm (18.48 in)
Min. Bend Radius Operation	313 mm (12.32 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -

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

Ordering Information

Part Number	144K81-T3130-A1
Product Description	MIC [®] Unitized Tight-Buffered, Interlocking Armored Cable, Riser, 144 F, 62.5 µm multimode (OM1)
EAN Code	4056418167763

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Notes



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