

# MIC® DX Tight-Buffered Armored Cable, Riser

12 F, 62.5 µm multimode (OM1)

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Corning Cable Systems MIC® DX Armored Riser Cables are standard MIC subunits placed inside a dielectric armor for ruggedness and superior crush resistance without the conductive properties of traditional armor. These cables are designed for use in intrabuilding backbone and horizontal installations. Individually jacketed TBII® Buffered Fibers enable easy, consistent stripping and facilitate termination.

The fibers are stranded around a dielectric central member that is protected by a flexible, all-dielectric armor offering easy, one-step installation and over four 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 numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

## Features and Benefits

### Dielectric armor

Four times crush protection compared to unarmored

### TBII® Buffered Fibers

Easy, consistent stripping

### Flame-retardant jacket

Rugged and durable

### Easy armor removal

Increased safety and speed at installation

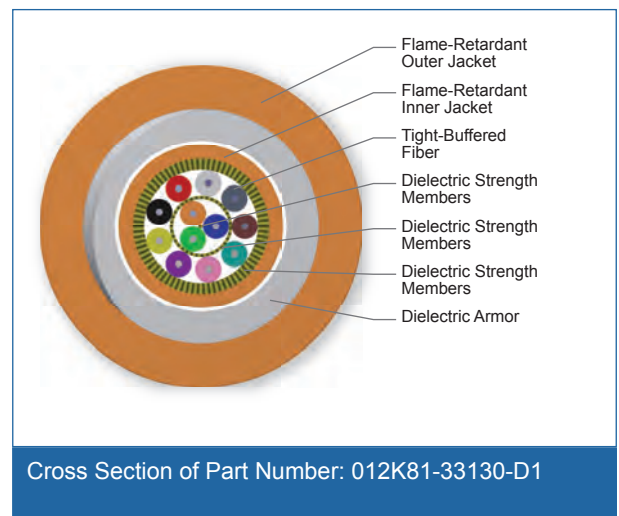
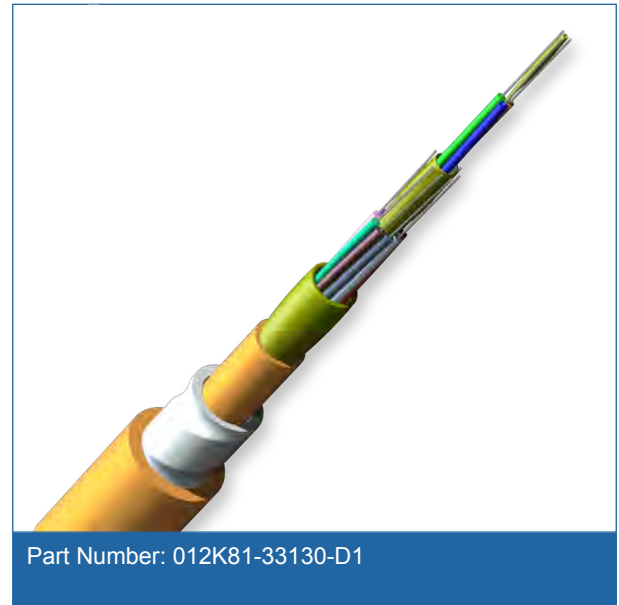
## Standards

### Approval and Listings

National Electrical Code® (NEC®) OFNR, 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	Dielectric armor
Flame Rating	Riser (OFNR)
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

Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Dielectric armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Orange

### Mechanical Characteristics Cable

Nominal Inner Cable Diameter	6.3 mm (0.25 in)
Nominal Outer Diameter	10.9 mm (0.43 in)
Weight	107.5 kg/km (72.2 lb/1000 ft)
Max. Tensile Strengths, Short-Term	1000 N (225 lbf)
Max. Tensile Strengths, Long-Term	593 N (133 lbf)
Min. Bend Radius Installation	164 mm (6.4 in)
Min. Bend Radius Operation	109 mm (4.3 in)

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## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	62.5 µm
Fiber Type	Multimode
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
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -

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	012K81-33130-D1
Product Description	MIC® DX Tight-Buffered Armored Cable, Riser, 12 F, 62.5 µm multimode (OM1)



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