

MIC® Tight-Buffered, Interlocking Armored Cables, Riser, 2-24 Fibers

CORNING

Features and Benefits

Flexible, interlocking armor design

Six times crush protection

Buffered fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Standards

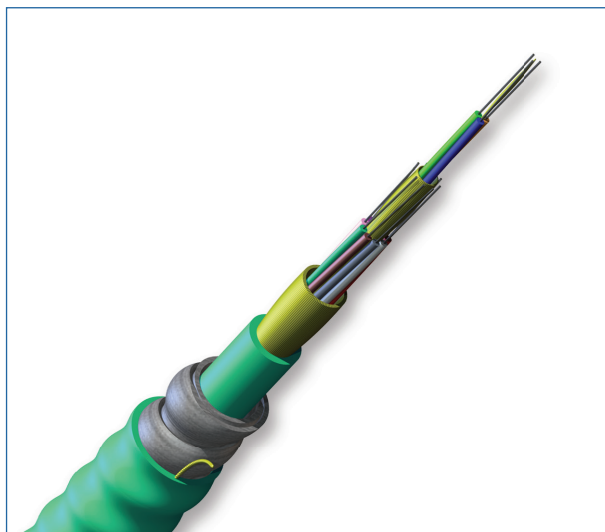
Listings

National Electrical Code®
(NEC®) OFCR, CSA FT-4,
ICEA S-83-596

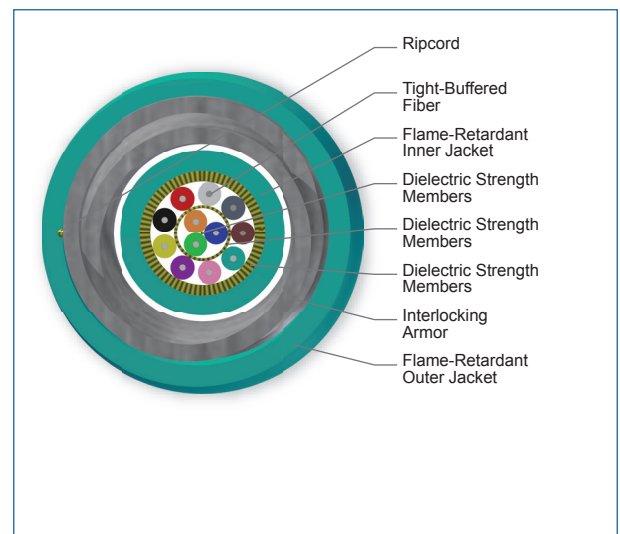
Design and Test Criteria

UL-1666 (for riser and general building applications)

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.



MIC Interlocking Armored Riser Cables, 12 Fibers

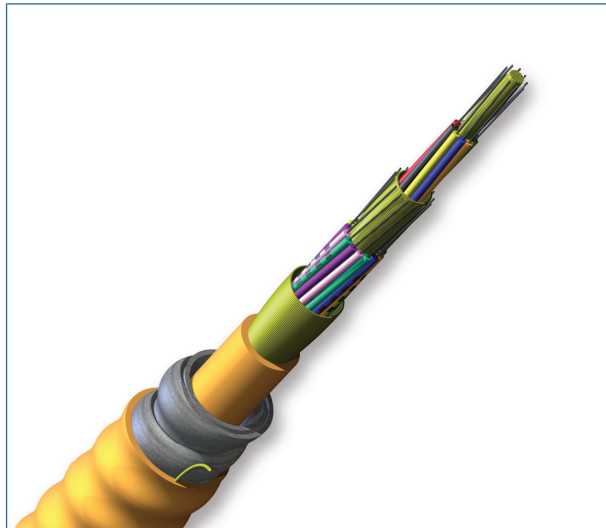


MIC Interlocking Armored Riser Cables, 12 Fibers

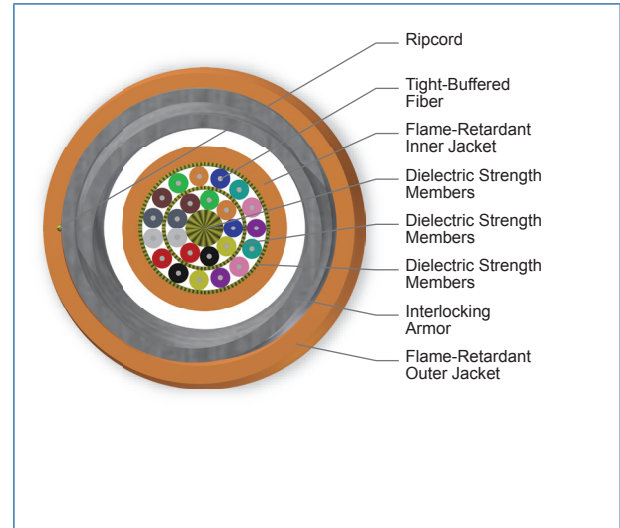
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MIC Interlocking Armored Riser Cables, 24 Fibers



MIC Interlocking Armored Riser Cables, 24 Fibers

Specifications

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)

* Note: Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Mechanical Characteristics Cable

Max. Tensile Strength			
Short-Term		Long-Term	
≤12F	>12F	≤12F	>12F
660 N (150 lbf)	1320 N (300 lbf)	200 N (45 lbf)	400 N (90 lbf)

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
Dual-Layer					
12	6.1 mm (0.24 in)	11.3 mm (0.44 in)	170 mm (6.7 in)	113 mm (4.4 in)	105.0 kg/km (70.6 lb/1000 ft)
18	6.8 mm (0.26 in)	13.7 mm (0.54 in)	206 mm (8.1 in)	137 mm (5.4 in)	130.3 kg/km (87.6 lb/1000 ft)

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Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
24	7.35 mm (0.29 in)	13.7 mm (0.54 in)	206 mm (8.1 in)	137 mm (5.4 in)	140.1 kg/km (94.1 lb/1000 ft)
Single-Layer					
2	4.3 mm (0.17 in)	11.3 mm (0.44 in)	170 mm (6.7 in)	113 mm (4.4 in)	89.5 kg/km (60.1 lb/1000 ft)
4	4.6 mm (0.18 in)	11.3 mm (0.44 in)	170 mm (6.7 in)	113 mm (4.4 in)	92.4 kg/km (62.1 lb/1000 ft)
6	5.1 mm (0.20 in)	11.3 mm (0.44 in)	170 mm (6.7 in)	113 mm (4.4 in)	95.9 kg/km (64.4 lb/1000 ft)
8	5.55 mm (0.22 in)	11.3 mm (0.44 in)	170 mm (6.7 in)	113 mm (4.4 in)	99.3 kg/km (66.7 lb/1000 ft)

Transmission Performance

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	2.8/1.0	2.8/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/600	1000/600	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-	5350/-

* 50 μm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.

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Notes



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