

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

CORNING

Features and Benefits

Aluminum interlocking armor

Up to seven times crush protection compared to unarmored

900 μ m buffered fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Corning MIC® interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually buffered fibers enabling easy, consistent stripping and facilitating termination.

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.

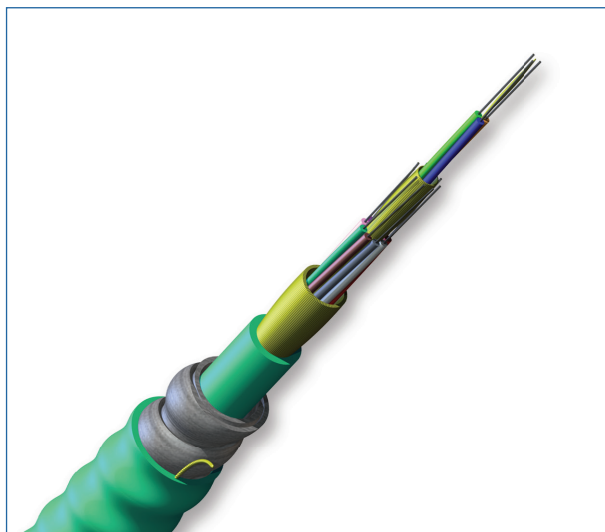
Standards

Listings

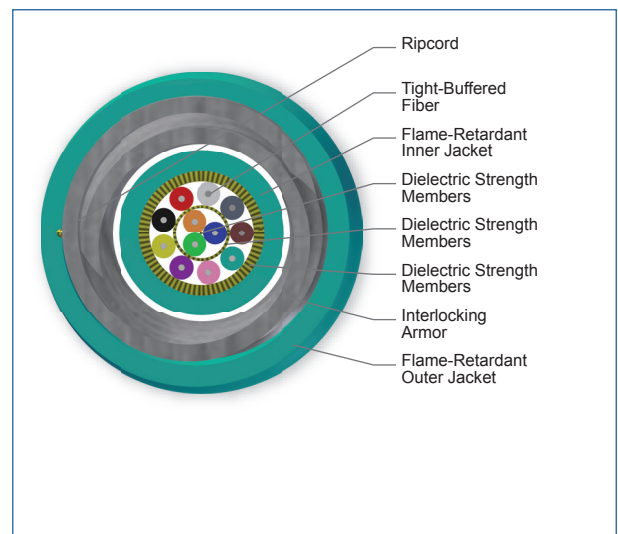
National Electrical Code®
(NEC®) OFCP, FT-6

Design and Test Criteria

NFPA 262 and CSA FT-6
(for plenum, riser and general building applications);
ICEA S-83-596



MIC Interlocking Armored Plenum Cables, 12 Fibers

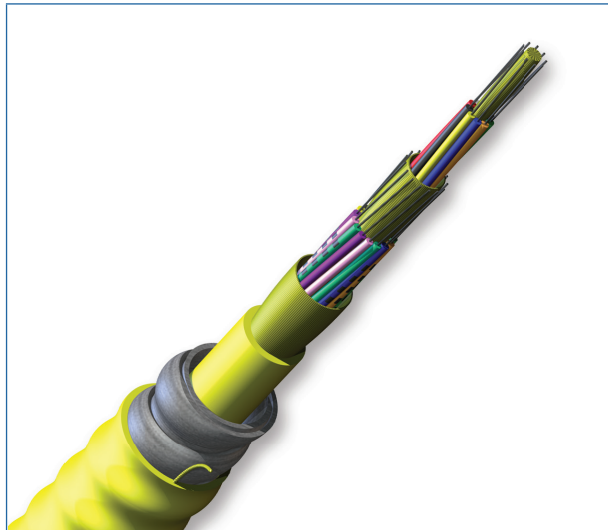


MIC Interlocking Armored Plenum Cables, 12 Fibers

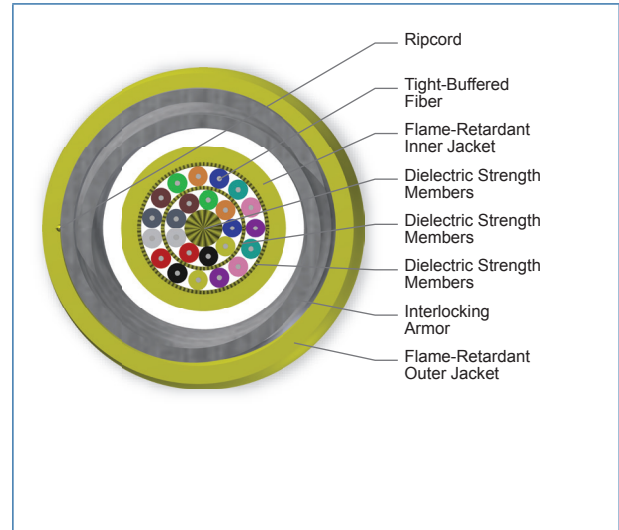
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MIC Interlocking Armored Plenum Cables, 24 Fibers



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Specifications

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °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	
440 N (100 lbf)	660 N (160 lbf)		132 N (30 lbf)	200 N (45 lbf)	
Fiber Count	Min. Bend Radius Installation	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Operation	Weight
Dual-Layer					
12	170 mm (6.7 in)	6.0 mm (0.24 in)			113 kg/km (76 lb/1000 ft)
12	170 mm (6.7 in)	6.0 mm (0.24 in)	11.3 mm (0.45 in)	113 mm (4.5 in)	113 kg/km (76 lb/1000 ft)

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Fiber Count	Min. Bend Radius Installation	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Operation	Weight
18	206 mm (8.1 in)	7.4 mm (0.29 in)	13.7 mm (0.54 in)	137 mm (5.4 in)	151 kg/km (102 lb/1000 ft)
18		7.4 mm (0.29 in)	13.7 mm (0.54 in)	137 mm (5.4 in)	151 kg/km (102 lb/1000 ft)
24	206 mm (8.1 in)	7.7 mm (0.31 in)	13.7 mm (0.54 in)	137 mm (5.4 in)	157 kg/km (106 lb/1000 ft)
Single-Layer					
2	170 mm (6.7 in)	5.0 mm (0.20 in)	11.3 mm (0.45 in)	113 mm (4.5 in)	99 kg/km (67 lb/1000 ft)
4	170 mm (6.7 in)	5.2 mm (0.21 in)	11.3 mm (0.45 in)	113 mm (4.5 in)	101 kg/km (68 lb/1000 ft)
6	170 mm (6.7 in)	5.2 mm (0.21 in)	11.3 mm (0.45 in)	113 mm (4.5 in)	103 kg/km (69 lb/1000 ft)
8	170 mm (6.7 in)	5.9 mm (0.23 in)			109 kg/km (73 lb/1000 ft)

Transmission Performance

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM4	OM3	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	90	80	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/-	550/-	300/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	3500/500	1500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	4700/-	2000/-	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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