

MIC® Interlocking Armored Plenum Cables, 2-24 Fibers

CORNING

Features and Benefits

Aluminum interlocking armor

Seven times crush protection compared to unarmored

TBII® Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Standards

Approval and Listings

National Electrical Code®
(NEC®) OFCP, CSA FT-4,
ICEA S-104-696

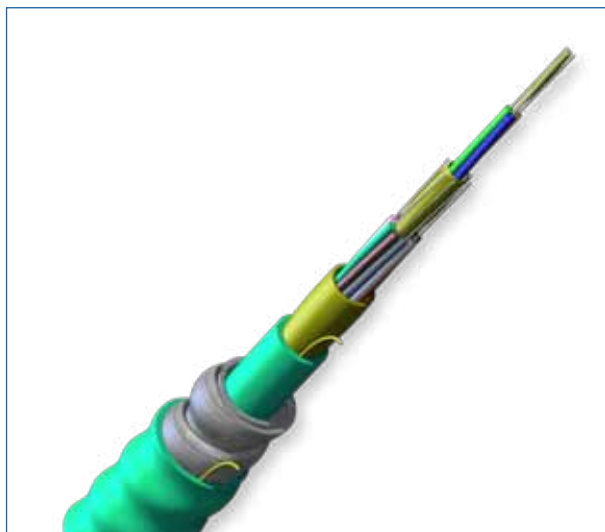
Flame Resistance

NFPA 262 (for plenum, riser
and general building appli-
cations)

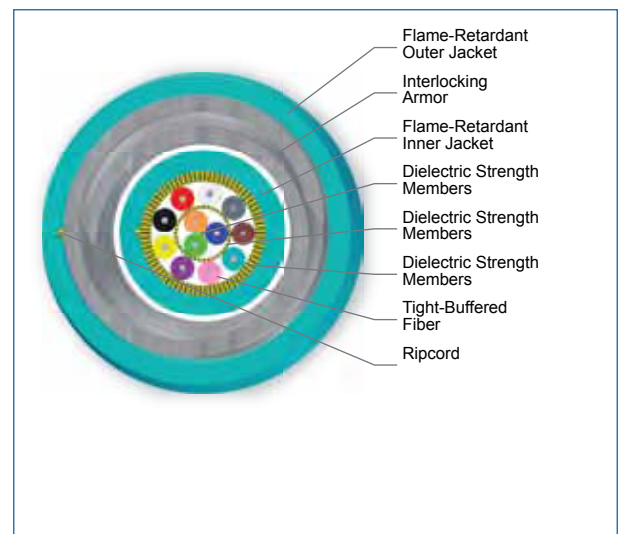
Corning Cable Systems MIC® Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into 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 over 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, 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.



MIC® Interlocking Armored Plenum Cables, 12-Fibers

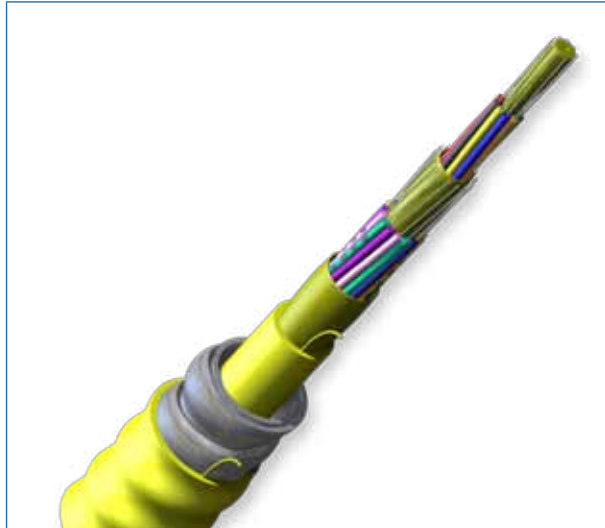


MIC® Interlocking Armored Plenum Cables, 12-Fibers

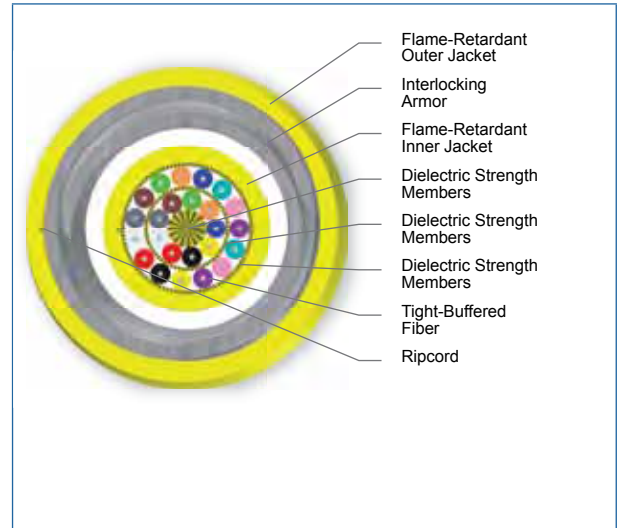
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MIC® Interlocking Armored Plenum Cables, 24-Fibers



MIC® Interlocking Armored Plenum Cables, 24-Fibers

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)

* Corning Cable Systems 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						
Fiber Count	Product Type	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
2	Interlocking armor	5 mm (0.2 in)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)	131 kg/km (87 lb/1000 ft)
4	Interlocking armor	5.3 mm (0.21 in)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)	136 kg/km (91 lb/1000 ft)
6	Interlocking armor	5.3 mm (0.21 in)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)	138 kg/km (92 lb/1000 ft)
8 - 12	Interlocking armor	6.1 mm (0.24 in)	12.6 mm (0.5 in)	189 mm (7.4 in)	126 mm (5 in)	151 kg/km (105 lb/1000 ft)

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Fiber Count	Product Type	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
18	Interlocking armor	7.4 mm (0.29 in)	13.7 mm (0.54 in)	206 mm (8.1 in)	137 mm (5.4 in)	181 kg/km (125 lb/1000 ft)
24	Interlocking armor	7.8 mm (0.31 in)	14.3 mm (0.56 in)	215 mm (8.5 in)	143 mm (5.6 in)	197 kg/km (136 lb/1000 ft)

Transmission Performance

Fiber Type Fiber Core Diameter (μm)	Multimode 62.5	Multimode 50	Multimode 50	Multimode 50	Multimode 50	Single-mode 8.2
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance	OS2
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	31
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310 / 1383 / 1550
Maximum Attenuation (dB/km)	3.4 / 1.0	2.8 / 1	2.8 / 1	2.8 / 1	2.8 / 1	0.65 / 0.65 / 0.5
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 / -	
Serial 1 Gigabit Ethernet (m)	300 / 550	750 / 600	1000 / 600	1100 / 600	1100 / 600	5000 / - / -
Serial 10 Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	600 / -	10000 / - / 40000
Induced Attenuation @ 7.5 mm Radius (dB)			< 30 up to 80			

* Assumes 1.0 dB maximum total connector/splice loss.

* Assumes 0.7 dB maximum total connector/splice loss.

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

* ITU-T G.652 D compliant.

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.

4) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

				8	8 - 3		1			-	A	3
1	2	3	4	5	6	7	8	9	10			

1 Select fiber count.

Standard offerings:

002 006 018
004 012 024

2 Select fiber code.

K = 62.5 µm multimode,
OM1
T = 50 µm multimode,
OM2, OM3, OM4, OM4+
E = Single-mode, OS2
SMF-28e®

3 Defines cable type.

8 = MIC® Cable (standard)

4 Defines outer jacket.

8 = Plenum

5 Defines fiber placement.

3 = Standard

6 Select length markings.

1 = Markings in feet
(fiber count < 12)
3 = Markings in feet
(fiber count ≥ 12)

7 Defines subunit diameter options.

8 Select performance option code.

30 = 62.5 µm multimode, OM1
31 = 50 µm multimode, OM2
80 = 50 µm multimode, OM3
90 = 50 µm multimode, OM4
91 = 50 µm multimode, OM4+
31 = Single-mode, OS2
(Max. attenuation .65 / .65 dB/km)

9 Defines cable type.

- = MIC® Cable (standard)

10 Defines special manufacturing code.

A3 = Aluminum interlocking armor with plenum-rated jacket

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 while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



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