MIC® Interlocking Armored Plenum Cables, 2-24 Fibers

A LANscape® Solutions Product

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

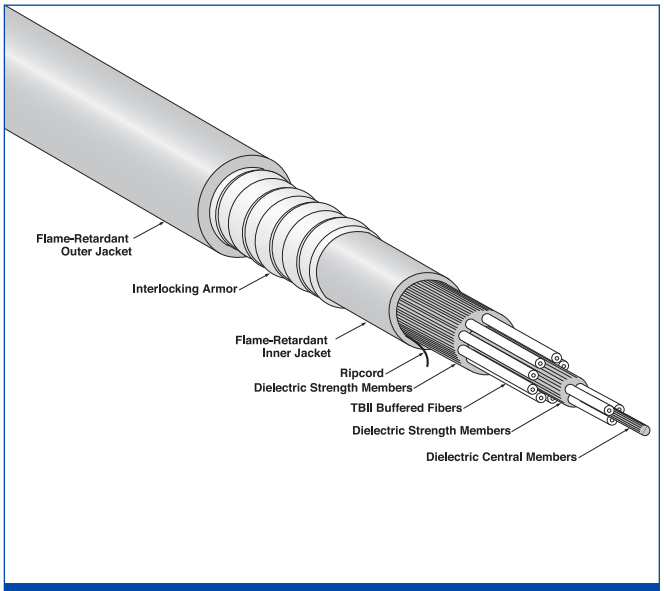
Corning Cable Systems MIC® Interlocking Armored Plenum Cables are standard OFNP MIC Plenum Cables designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multi-fiber cables use individually jacketed TBII Buffered Fibers enabling easy, consistent stripping and facilitating termination.

The fibers are grouped into jacketed subunits and surrounded by a dielectric central member. This 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.

(continued)

RoHS COMPLIANT

MIC Interlocking Armored Plenum Cable
| Photo LAN93



MIC Interlocking Armored Plenum Cable, 12-Fiber
| Drawing ZA-2084

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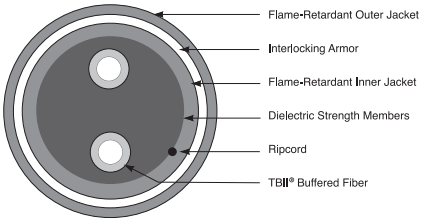
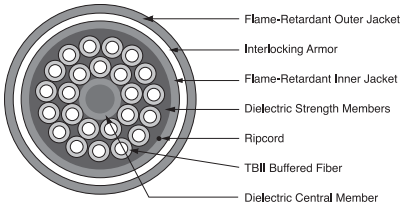
Offered in 50 µm, 62.5 µm, single-mode and hybrid versions, these cables meet the application requirements of the National Electrical Code® (NEC®) and are OFCP and FT-6 listed. These cables also meet ICEA S-83-596 test criteria and are available with Gigabit Ethernet and 10 Gigabit Ethernet performance.



MIC Armored OFCP Cable, 2-Fiber
| Drawing ZA-2085



MIC Armored OFCP Cable, 24-Fiber
| Drawing ZA-2087

specifications |

Temperatures	Storage:	-40° to +70°C (-40° to +158°F)
	Installation:	0° to +60°C (+32° to +140°F)
	Operation:	0° to +70°C (+32° to +158°F)
Approvals and Listings	National Electrical Code® (NEC®) OFCP, CSA FT-6, ICEA S-83-596	
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)	

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.

Fiber Count	Inner Cable O.D. mm (in)	Armored Cable O.D. mm (in)	Nominal Cable Weight kg/km (lb/1000 ft)	Maximum Tensile Loads Short-Term N (lbf)	Long-Term N (lbf)	Minimum Bend Radius Loaded cm (in)	Installed cm (in)
2	5.0 (0.20)	12.2 (0.48)	131 (87)	440 (100)	132 (30)	18.3 (7.2)	12.2 (4.8)
4	5.3 (0.21)	12.2 (0.48)	136 (91)	440 (100)	132 (30)	18.3 (7.2)	12.2 (4.8)
6	5.3 (0.21)	12.2 (0.48)	138 (92)	440 (100)	132 (30)	18.3 (7.2)	12.2 (4.8)
12	6.1 (0.24)	12.6 (0.50)	151 (105)	440 (100)	132 (30)	18.9 (7.4)	12.6 (5.0)
18	7.4 (0.29)	13.7 (0.54)	181 (125)	660 (150)	200 (45)	20.6 (8.1)	13.7 (5.4)
24	7.8 (0.31)	14.3 (0.56)	197 (136)	660 (150)	200 (45)	21.5 (8.5)	14.3 (5.6)

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transmission performance |

	LANscape® 62.5 Solutions	LANscape Pretium® 150 Solutions	LANscape Pretium 300 Solutions	LANscape Pretium 550 Solutions	LANscape Pretium 600 Solutions	Single-Mode
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	31
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode****
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3***	OM4***	OM4***	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.65/0.65/0.50
Minimum Over Filled 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 Distance (m)	300/550	750/600	1000/600	1100/600	1100/600	5000 / – / –
Serial 10 Gigabit Ethernet Distance (m)	33/ –	150/ –	300/ –	550*/ –	600**/ –	10000/ – /40000

** 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™ Systems solutions.*
***** ITU 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 Service 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 Service at 800-743-2671 for other options.

☐	☐	☐	☐	8	8	-	3	☐	1	☐	☐	-	A	3
1	2	3	4	5	6		7	8	9	10	11	12	13	14

1-3

Select fiber count.

Standard offerings:

002 006 018
004 012 024

4

Select fiber code (see Transmission Performance table).

5 / 12

Defines cable type.

8 / - = Standard for MIC® Cable

6

Defines outer jacket.

8 = Plenum

7

Defines fiber placement.

3 = Standard

8

Select length markings.

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

9

Defines subunit diameter options.

10-11

Select performance option code (see Transmission Performance table).

13-14

Defines special manufacturing code.

A3 = Aluminum interlocking armor with plenum-rated jacket

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-901-5973 • International: +1-828-901-5000 • www.corning.com/cablesystems

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