

MIC[®] Interlocking Armored Plenum Cables, 2-24 Fibers



Features and Benefits

Aluminum interlocking armor
Seven times crush protection compared to unarmored

TBII buffered fibers
Easy, consistent stripping

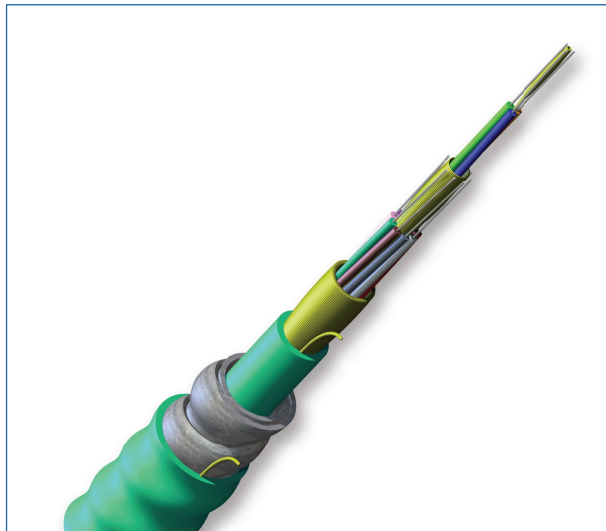
Flame-retardant jacket
Rugged and durable

Standards

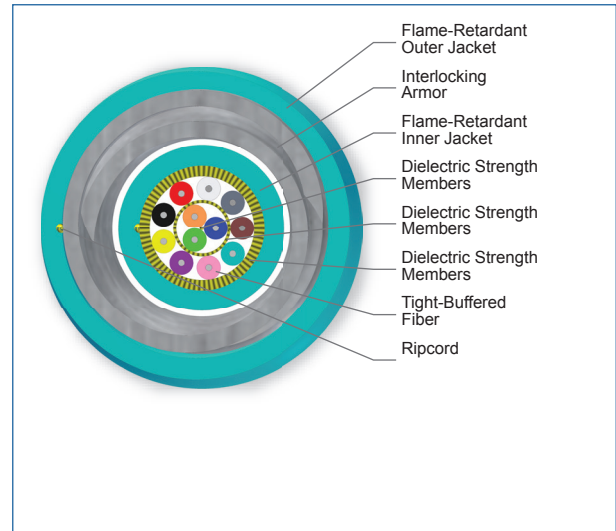
Approvals and Listings	National Electrical Code [®] (NEC [®]) OFCP, CSA FT-4, ICEA S-104-696
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

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 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.

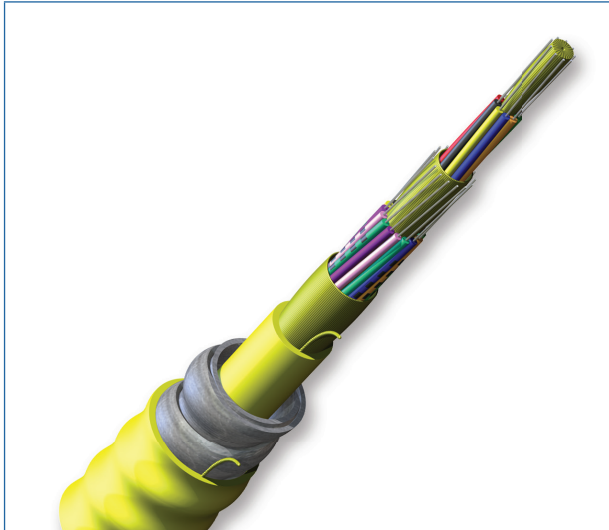


MIC Interlocking Armored Plenum Cables, 12 Fibers

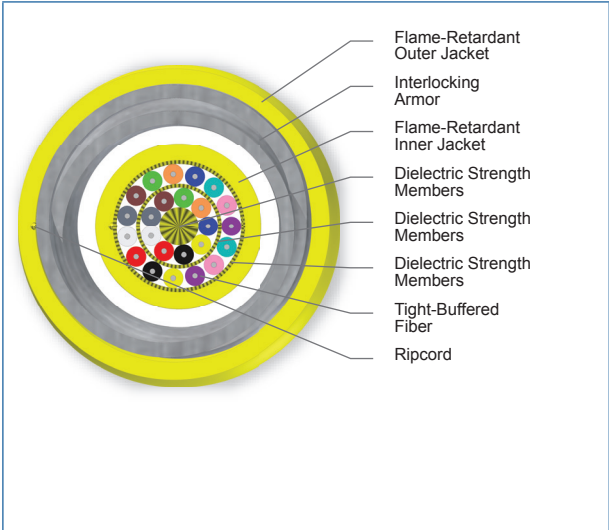


MIC Interlocking Armored Plenum Cables, 12 Fibers

MIC[®] Interlocking Armored Plenum Cables, 2-24 Fibers



MIC Interlocking Armored Plenum Cables, 24 Fibers
| Photo PIM0955



MIC Interlocking Armored Plenum Cables, 24 Fibers
| Photo PIMtbd

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

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
2	5.0 mm (0.20 in)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)	131 kg/km (87 lb/1000 ft)	Interlocking armor
4	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)	Interlocking armor
6	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)	Interlocking armor
8 - 12	6.1 mm (0.24 in)		189 mm (7.4 in)		151 kg/km (105 lb/1000 ft)	Interlocking armor

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Mechanical Characteristics Cable

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
18	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)	Interlocking armor
24	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)	Interlocking armor

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)	200/500	750/600	1100/600	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	220/-	150/-	550/-	300/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	300/550	700/500	3500/500	1500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	33/-	950/-	4700/-	2000/-	5350/-

* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

* 50 μm multimode fiber (OM3/OM4/OM4+) meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium EDGE® systems solutions.

* 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.

Notes: 1) Improved attenuation and bandwidth options available.

2) Bend-insensitive single-mode fibers available on request.

3) Contact a Corning 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.

Single-mode

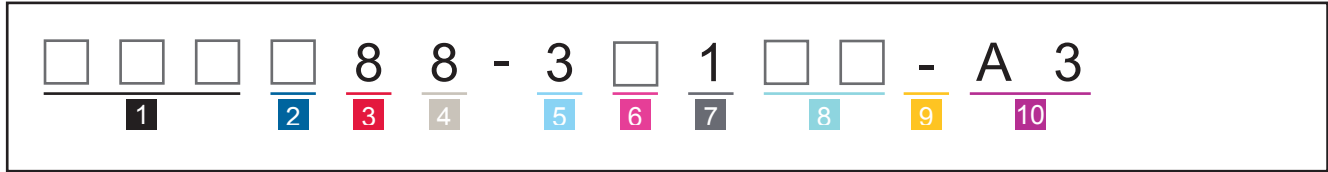
Fiber Name	SMF-28e [®] fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50

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Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*



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+[®] fiber
H = ClearCurve[®] XB

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 ft (fiber count < 12)
3 = Markings in ft (fiber count ≥ 12)

7 Defines tensile strength.

1 = See specifications

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)

9 Defines cable type.

- = MIC cable (standard)

10 Defines special manufacturing code.

A3 = Aluminum interlocking armor with plenum-rated jacket

Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, 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 part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



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