

MIC[®] Unitized Interlocking Armored Plenum Cables, 36-144 Fibers

CORNING

Features and Benefits

Aluminum interlocking armor

Seven times crush protection compared to unarmored

900 μm TBII[®] Buffered Fibers

Easy, consistent stripping

Six- or 12-fiber jacketed subunits

Quick and easy identification

Flame-retardant jacket

Rugged and durable

Standards

Approval and Listings

National Electrical Code[®]
(NEC[®]) OFCP, CSA FT-6,
ICEA S-83-596

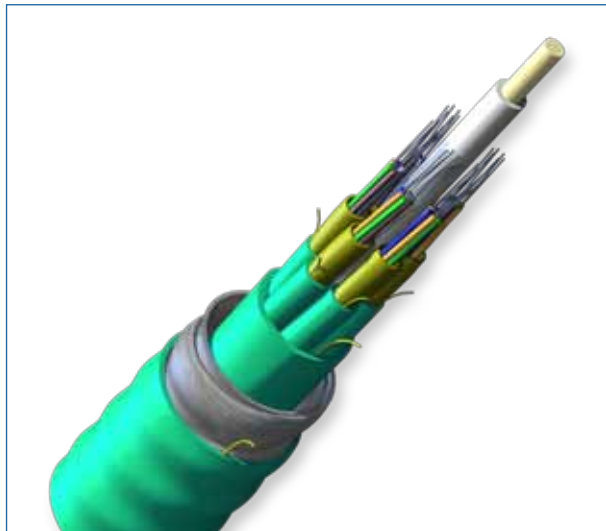
Flame Resistance

UL-1666 (for riser and general building applications)

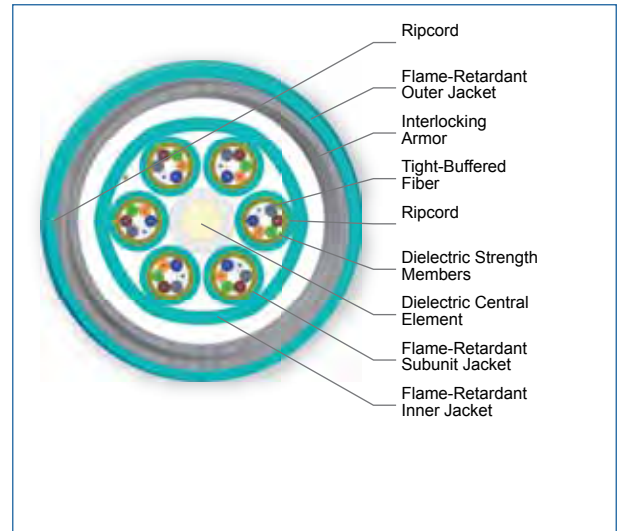
Corning Cable Systems MIC[®] Unitized Interlocking Armored Plenum Cables are standard MIC Unitized Cables designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed 900 μm TBII[®] Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into six or 12-fiber jacketed subunits, for quick and easy identification. These subunits surround a dielectric central member and are 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 for routing inside buildings, through riser shafts, to telecommunication rooms and to workstations.

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.



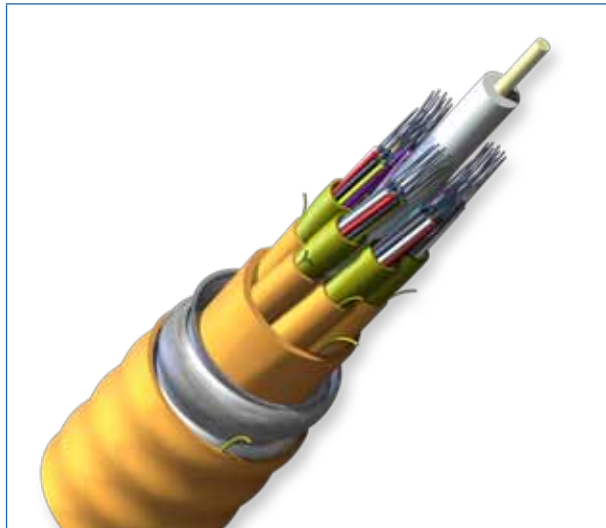
MIC[®] Unitized Interlocking Armored Plenum Cables, 36-Fibers



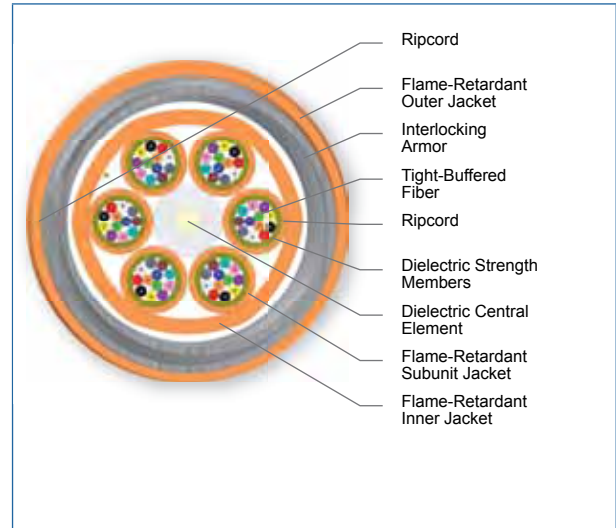
MIC[®] Unitized Interlocking Armored Plenum Cables, 36-Fibers

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MIC[®] Unitized Interlocking Armored Plenum Cables, 72-Fibers



MIC[®] Unitized Interlocking Armored Plenum Cables, 72-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	
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)

Fiber Count	Product Type	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
36	Interlocking armor	14.8 mm (0.58 in)	23.6 mm (0.93 in)	354 mm (13.9 in)	236 mm (9.3 in)	481 kg/km (323 lb/1000 ft)
48	Interlocking armor	17.8 mm (0.69 in)	25.9 mm (1.02 in)	389 mm (15.3 in)	259 mm (10.2 in)	606 kg/km (407 lb/1000 ft)
60	Interlocking armor	17.9 mm (0.7 in)	25.9 mm (1.02 in)	389 mm (15.3 in)	259 mm (10.2 in)	571 kg/km (384 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
72	Interlocking armor	18.6 mm (0.72 in)	27.4 mm (1.08 in)	411 mm (16.2 in)	274 mm (10.8 in)	639 kg/km (429 lb/1000 ft)
96	Interlocking armor	22.2 mm (0.86 in)	31.2 mm (1.23 in)	468 mm (18.4 in)	312 mm (12.3 in)	834 kg/km (561 lb/1000 ft)
144	Interlocking armor	23.7 mm (0.92 in)	32.5 mm (1.28 in)	488 mm (19.2 in)	325 mm (12.8 in)	861 kg/km (579 lb/1000 ft)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Transmission Performance

Fiber Core Diameter (µm)	62.5	50	50	50	50	8.2
Fiber Type	Multimode	Multimode	Multimode	Multimode	Multimode	Single-mode
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.

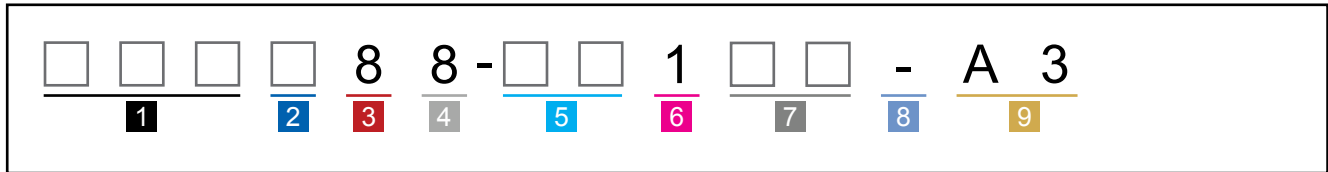
* ITU-T G.652 D compliant.

- 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.



1 Select fiber count.

Standard offerings:
036 060 096
048 072 144

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®/MIC Unitized Cable family

4 Defines outer jacket.

8 = Plenum

5 Select number of fibers per subunit.

61 = 6 fibers per subunit (036-048 fibers)
T3 = 12 fibers per subunit (060-144 fibers)

6 Defines tensile strength.

1 = See Specifications.

7 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)

8 Defines cable type.

- = MIC®/MIC Unitized Cable

9 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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