

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

CORNING

Features and Benefits

Six- or 12-fiber jacketed subunits
Quick and easy identification

900 μ m TBII[®] Buffered Fibers
Easy, consistent stripping

All-dielectric cable construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable

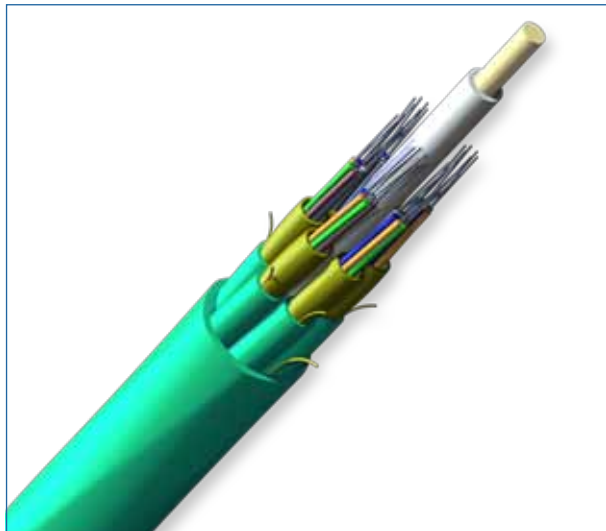
Standards

Approval and Listings National Electrical Code[®]
(NEC[®]) OFNP, CSA FT-6,
ICEA S-83-596

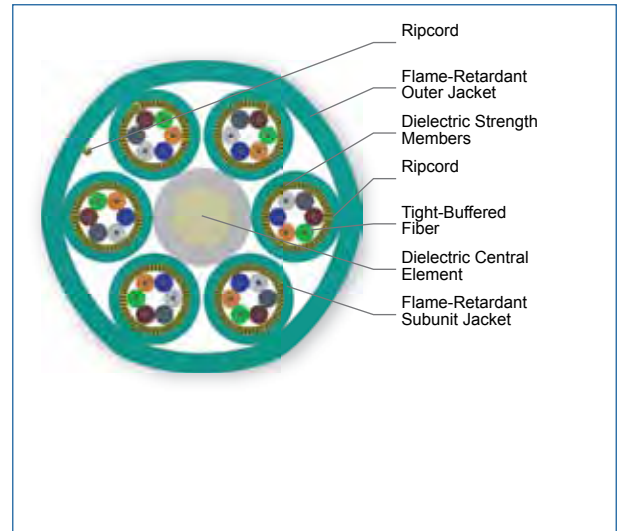
Flame Resistance NFPA 262 (for plenum, riser
and general building appli-
cations)

Corning Cable Systems MIC[®] Unitized Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations. These multifiber cables use individually jacketed 900 μ m TBII[®] Buffered Fibers enabling easy, consistent stripping and facilitating termination. The stranded subunits of six or 12 fibers allow quick and easy identification and are surrounded by dielectric strength members and protected by a flame-retardant outer 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. 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 Plenum Cables, 36-Fibers

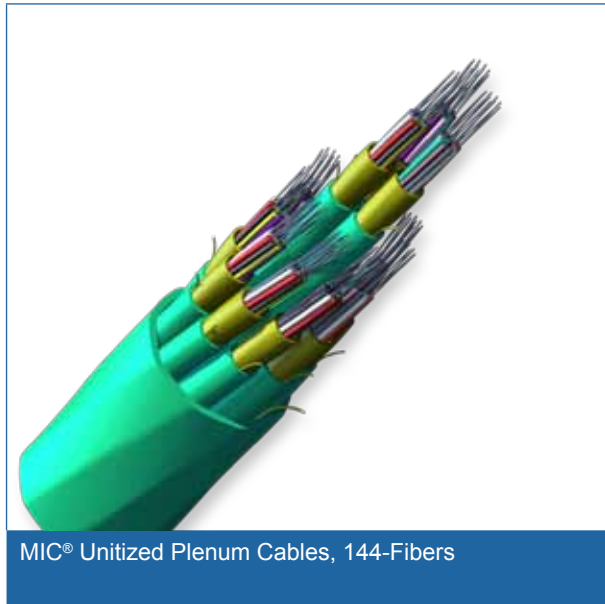


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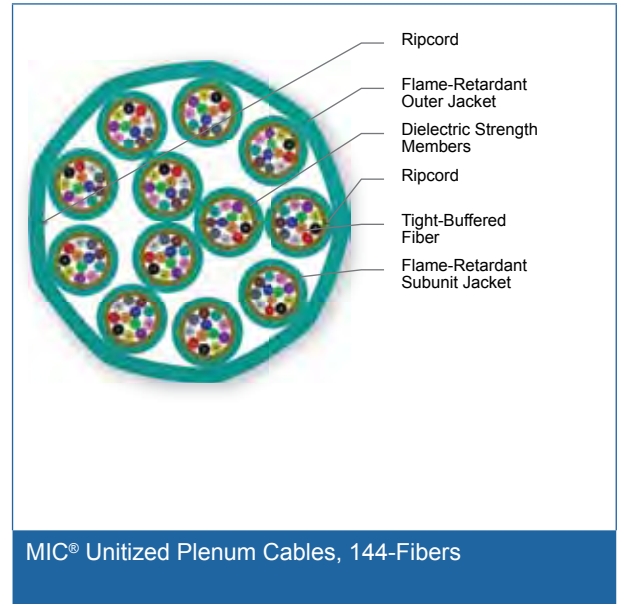
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MIC[®] Unitized Plenum Cables, 144-Fibers



MIC[®] Unitized Plenum Cables, 144-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 Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
6-Fiber Subunits					
36	Distribution	14.8 mm (0.58 in)	222 mm (8.7 in)	148 mm (5.8 in)	219 kg/km (147 lb/1000 ft)
48	Distribution	17.8 mm (0.69 in)	267 mm (10.5 in)	178 mm (6.9 in)	314 kg/km (211 lb/1000 ft)
12-Fiber Subunits					
60	Distribution	17.9 mm (0.7 in)	269 mm (10.6 in)	179 mm (7 in)	278 kg/km (187 lb/1000 ft)

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Fiber Count	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
72	Distribution	18.6 mm (0.73 in)	279 mm (11 in)	186 mm (7.3 in)	330 kg/km (221 lb/1000 ft)
96	Distribution	22.2 mm (0.87 in)	333 mm (13.1 in)	222 mm (8.7 in)	479 kg/km (321 lb/1000 ft)
144	Distribution	23.7 mm (0.92 in)	356 mm (14 in)	237 mm (9.2 in)	489 kg/km (328 lb/1000 ft)

* Central Member Types: Y = Yarn, G = Glass Reinforced Plastic (GRP), JG = Jacketed GRP

* Fiber arrangement in dual-layer designs is shown in parentheses.

* Example: (9/3) = 9 outside fibers around 3 inner fibers.

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.

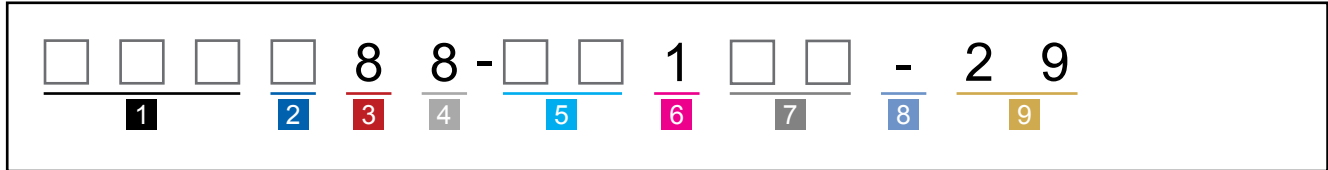
* ITU-T G.652 D compliant.

- 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 requirements.

29 = Standard for MIC Unitized Riser Cables



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