

# MIC<sup>®</sup> Unitized Plenum Cables, 36-144 Fibers

CORNING

## Features and Benefits

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

**900 μm TBII<sup>®</sup> Buffered Fibers**  
Easy, consistent stripping

**All-dielectric cable construction**  
Requires no grounding or bonding

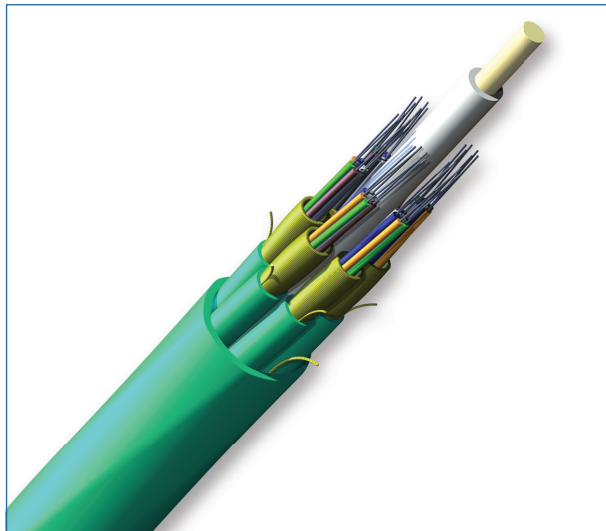
**Flame-retardant jacket**  
Rugged and durable

## Standards

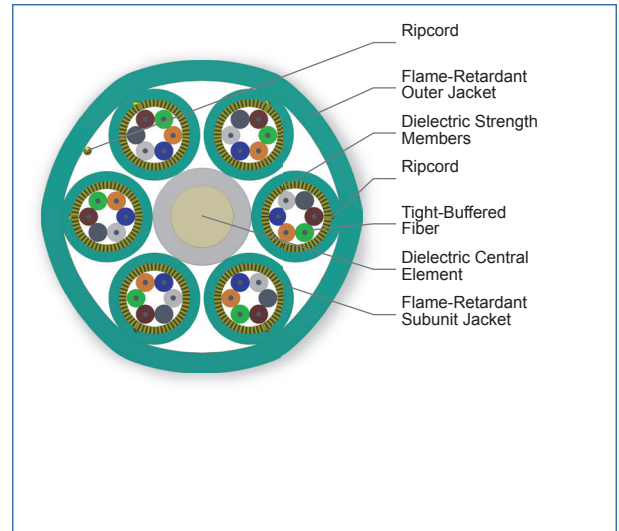
Approvals and Listings	National Electrical Code <sup>®</sup> (NEC <sup>®</sup> ) OFNP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building appli- cations)

Corning MIC<sup>®</sup> 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 μm TBII<sup>®</sup> 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, violet, 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  
| Photo PIM0900

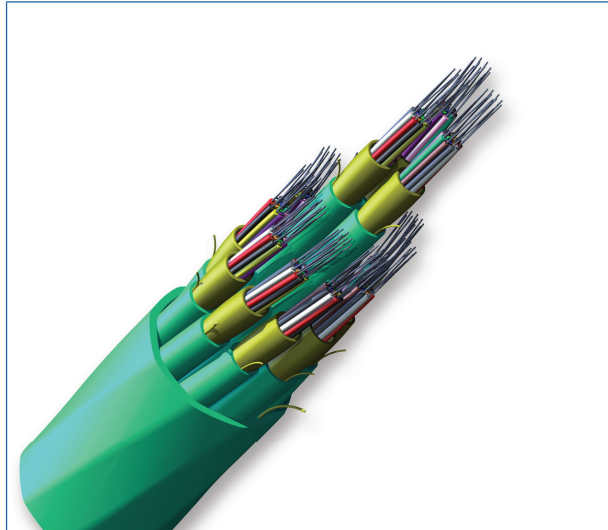


MIC Unitized Plenum Cables, 36 Fibers  
| Photo PIM1800

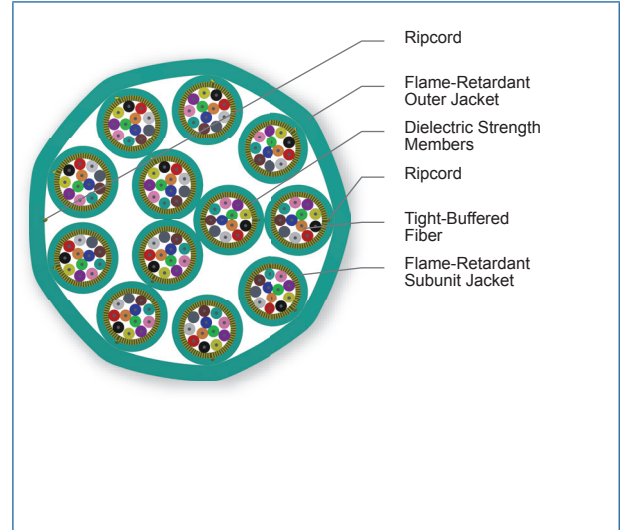
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# MIC<sup>®</sup> Unitized Plenum Cables, 36-144 Fibers

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MIC Unitized Plenum Cables, 144 Fibers  
| Photo PIM0915



MIC Unitized Plenum Cables, 144 Fibers  
| Photo PIM1815

## 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.

Max. Tensile Strength, Short-Term	660 N (150 lbf)
Max. Tensile Strength, Long-Term	200 N (45 lbf)

Mechanical Characteristics Cable						
Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
12-Fiber Subunits						
60	Jacketed GRP	17.9 mm (0.7 in)	269 mm (10.6 in)	179 mm (7.0 in)	278 kg/km (187 lb/1000 ft)	Distribution

\* 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.

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## Mechanical Characteristics Cable

Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
72	Jacketed GRP	18.6 mm (0.73 in)	279 mm (11 in)	186 mm (7.3 in)	330 kg/km (221 lb/1000 ft)	Distribution
96	Jacketed GRP	22.2 mm (0.87 in)	333 mm (13.1 in)	222 mm (8.7 in)	479 kg/km (321 lb/1000 ft)	Distribution
144	Jacketed GRP	23.7 mm (0.92 in)	356 mm (14 in)	237 mm (9.2 in)	489 kg/km (328 lb/1000 ft)	Distribution
6-Fiber Subunits						
36	Jacketed GRP	14.8 mm (0.58 in)	222 mm (8.7 in)	148 mm (5.8 in)	219 kg/km (147 lb/1000 ft)	Distribution
48	Jacketed GRP	17.8 mm (0.69 in)	267 mm (10.5 in)	178 mm (6.9 in)	314 kg/km (211 lb/1000 ft)	Distribution

\* 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

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	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	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	220/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	300/550	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	33/-	950/-	2000/-	4700/-	5350/-

\* 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 Plug and 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 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.

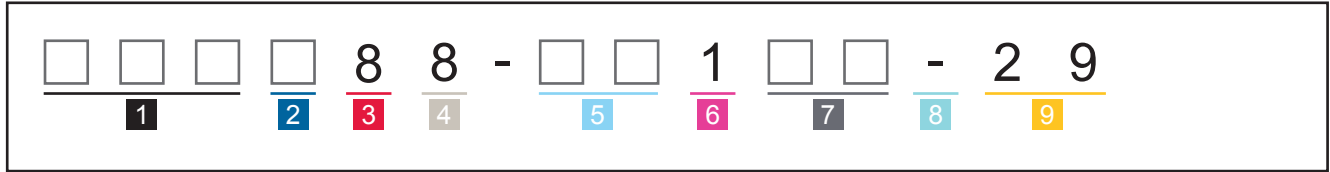
Single-mode	
Fiber Name	SMF-28e <sup>®</sup> fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50

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



**1** Select fiber count.

Standard offerings:  
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+® fiber  
H = ClearCurve® XB Single-mode (OS2)

**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 / 0.5 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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