

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

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## Features and Benefits

**900 μm buffered fibers**  
Easy, consistent stripping

**6-, 12- or 24-fiber jacketed subunits**  
Quick and easy identification

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

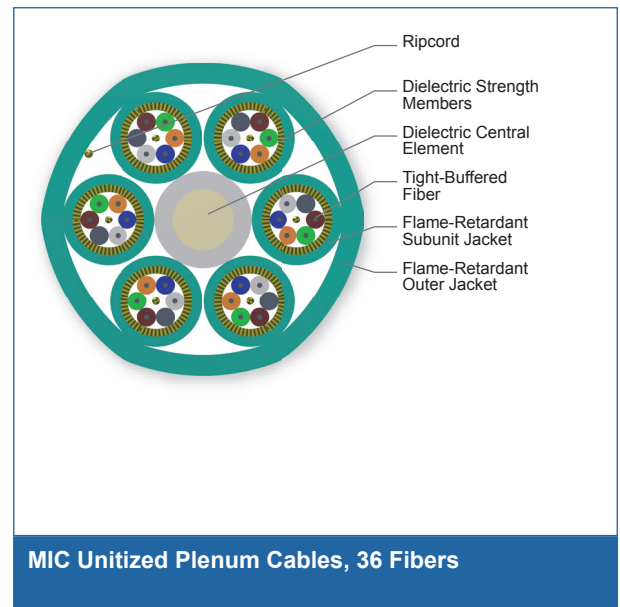
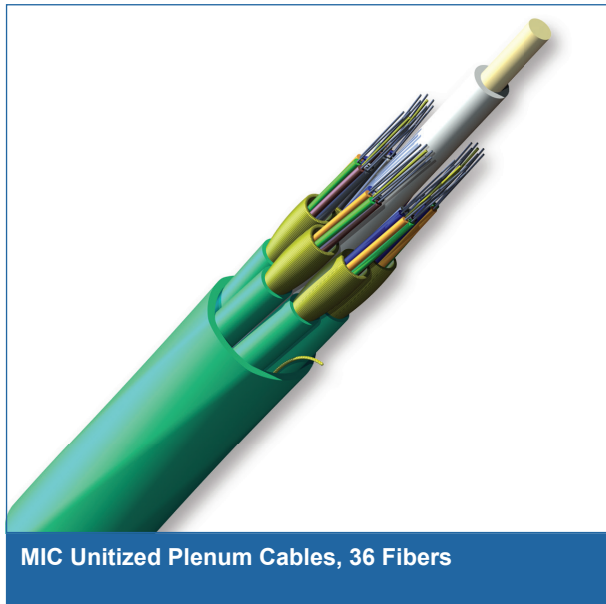
**Flame-retardant jacket**  
Rugged and durable

## Standards

Listings	National Electrical Code <sup>®</sup> (NEC <sup>®</sup> ) OFNP, FT-6
Design and Test Criteria	NFPA 262 and CSA FT-6 (for plenum, riser and general building applications); ICEA S-83-596

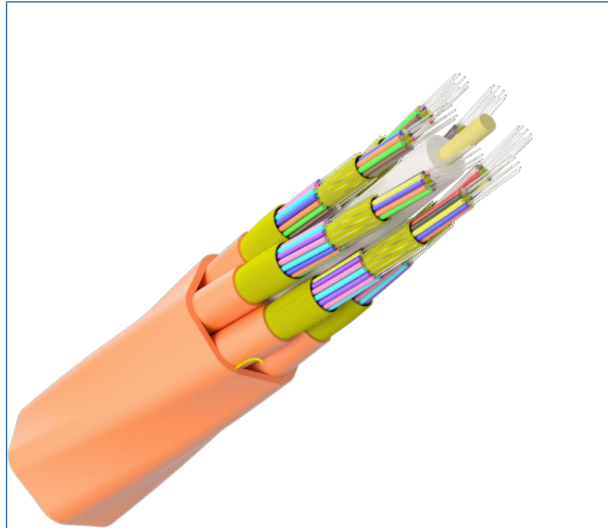
Corning MIC<sup>®</sup> unitized plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations. These multifiber cables use individually jacketed 900 μm buffered fibers enabling easy, consistent stripping and facilitating termination. The stranded subunits of 6-, 12-, or 24-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.*

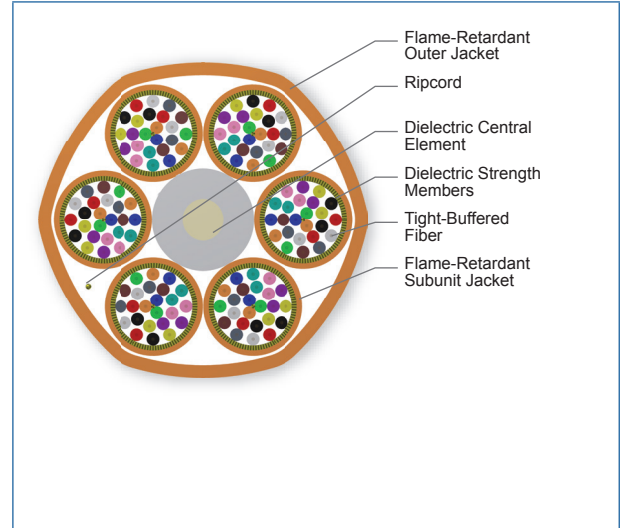


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MIC Unitized Plenum Cables, 144 Fibers



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)

\* 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

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

Fiber Count	Subunit Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
36	4.40 mm (0.17 in)	14.8 mm (0.58 in)	222 mm (8.7 in)	148 mm (5.8 in)	207.3 kg/km (147.0 lb/1000 ft)
48	4.40 mm (0.17 in)	17.8 mm (0.70 in)	267 mm (10.5 in)	178 mm (7.0 in)	297.9 kg/km (211.0 lb/1000 ft)
60	5.55 mm (0.22 in)	17.9 mm (0.70 in)	269 mm (10.6 in)	179 mm (7.0 in)	267.9 kg/km (180.0 lb/1000 ft)

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Fiber Count	Subunit Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
72	5.55 mm (0.22 in)	18.6 mm (0.73 in)	279 mm (11.0 in)	186 mm (7.3 in)	317.7 kg/km (213.5 lb/1000 ft)
96	6.80 mm (0.27 in)	18.5 mm (0.73 in)	277.5 mm (10.93 in)	185 mm (7.28 in)	305.2 kg/km (205.09 lb/1000 ft)
144	6.80 mm (0.27 in)	23.5 mm (0.93 in)	352.5 mm (13.88 in)	235 mm (9.25 in)	482.3 kg/km (324.09 lb/1000 ft)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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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)	300/550	750/600	1000/600	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
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/-

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

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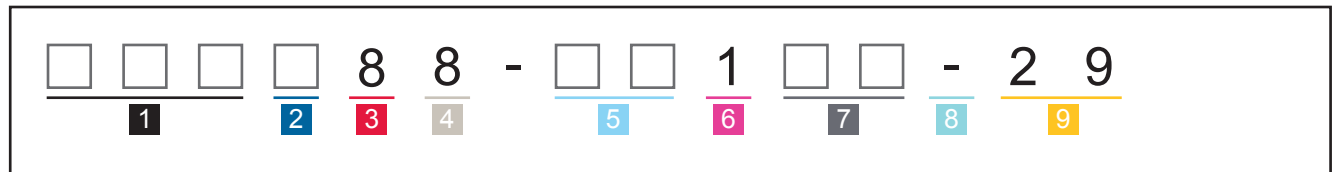
Single-mode		
Fiber Name	SMF-28e <sup>®</sup> fiber	SMF-28 <sup>®</sup> Ultra fiber
Fiber Category	G.652.D	G.652.D/G.657.A1
Fiber Code	E	Z
Performance Option Code	31	31
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.4	0.4/0.4/0.4

\* Improved attenuation and bandwidth options available.

\* Bend-insensitive single-mode fibers available on request.

\* Contact a Corning Customer Care Representative for additional information.

## 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<sup>®</sup> fiber  
Z = Single-mode (OS2) SMF-28<sup>®</sup> Ultra fiber

**3** Defines cable type.

8 = MIC<sup>®</sup>/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 (060-072 fibers)  
Y3 = 24 fibers per subunit (096-144 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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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

## *Notes*



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