

MIC® Plenum Cables, 2-24 Fibers

CORNING

Features and Benefits

900 µm 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

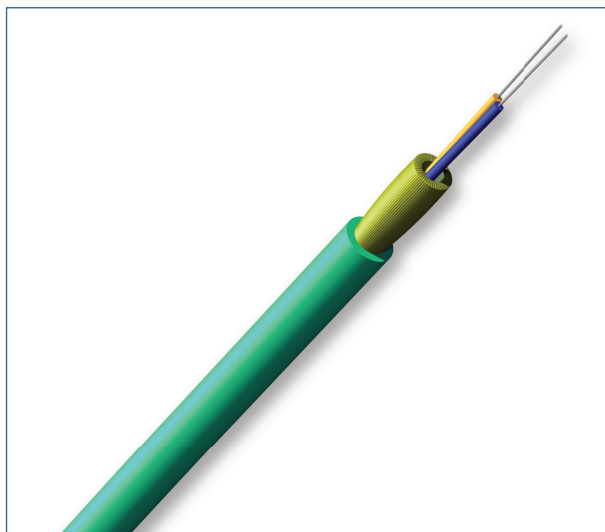
Flame Resistance

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

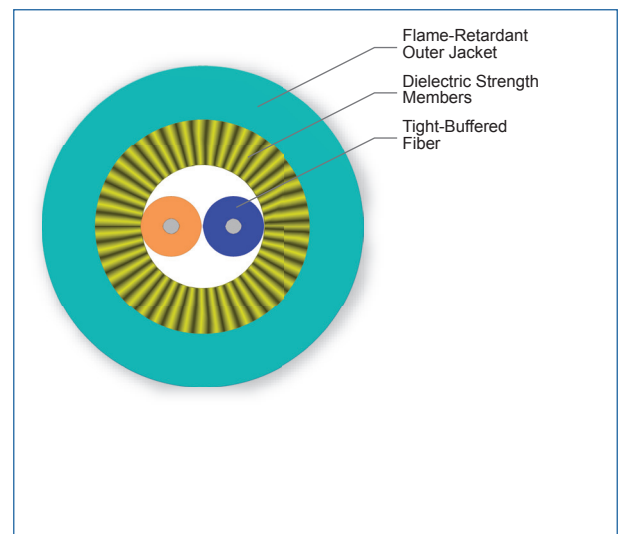
Corning Cable Systems MIC® Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

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® Plenum Cables, 2-Fibers

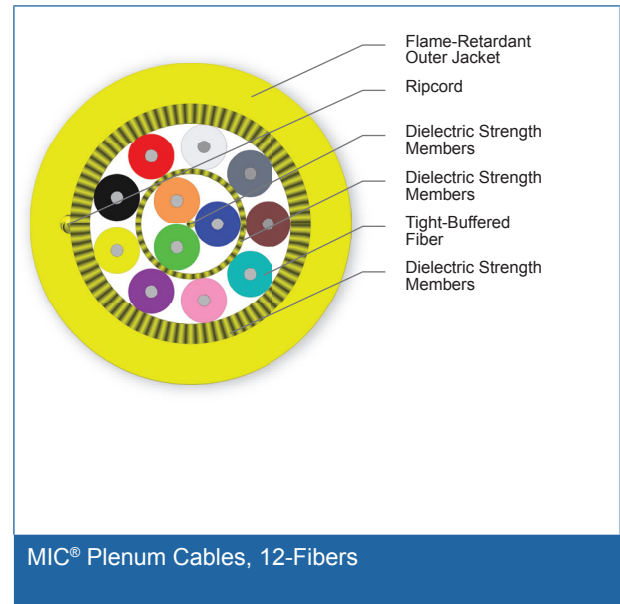
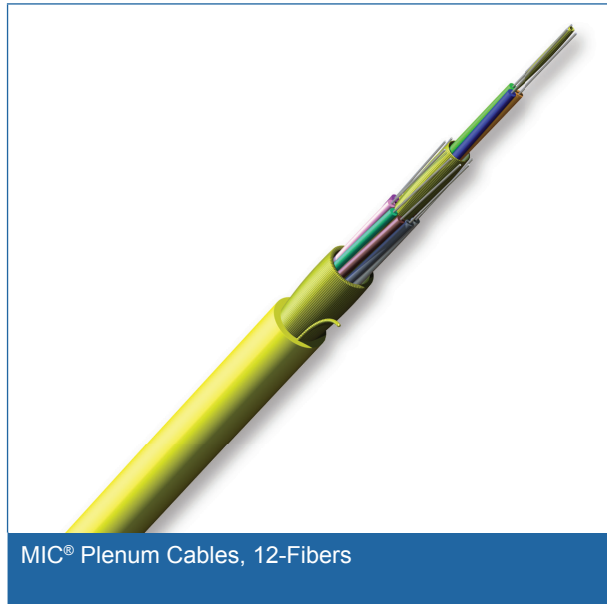


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Specifications

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			440 N (100 lbf)		
Max. Tensile Strengths, Long-Term			132 N (30 lbf)		
Fiber Count	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
Single-Layer					
2	Distribution	5 mm (0.2 in)	75 mm (3 in)	25 mm (1 in)	21 kg/km (15 lb/1000 ft)
4	Distribution	5.3 mm (0.21 in)	80 mm (3.2 in)	27 mm (1.1 in)	25 kg/km (17 lb/1000 ft)
6	Distribution	5.3 mm (0.21 in)	80 mm (3.2 in)	27 mm (1.1 in)	27 kg/km (19 lb/1000 ft)

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Fiber Count	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
8	Distribution	5.9 mm (0.23 in)	89 mm (3.5 in)	59 mm (2.3 in)	35 kg/km (25 lb/1000 ft)
Dual-Layer					
12	Distribution	6.1 mm (0.24 in)	92 mm (3.6 in)	31 mm (1.2 in)	37 kg/km (26 lb/1000 ft)
18	Distribution	7.4 mm (0.29 in)	111 mm (4.4 in)	74 mm (2.9 in)	56 kg/km (40 lb/1000 ft)
24	Distribution	7.8 mm (0.31 in)	117 mm (4.6 in)	78 mm (3.1 in)	64 kg/km (45 lb/1000 ft)

Transmission Performance

Fiber Type	Multimode	Multimode	Multimode	Multimode	Multimode	Single-mode
Fiber Core Diameter (μm)	62.5	50	50	50	50	8.2
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
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
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 / -	
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 2 3 4 5 6 7 8 9 10

1 Select fiber count.

Standard offerings:

002 006 012 024
004 008 016

2 Select fiber code.

K = 62.5 μ m multimode,
OM1
T = 50 μ m multimode,
OM2, OM3, OM4, OM4+
E = Single-mode, OS2
SMF-28e+®

3 Defines cable type.

8 = Standard for MIC® Cable

4 Defines outer jacket.

8 = Standard for plenum

5 Defines fiber placement.

3 = Standard

6 Select length markings.

1 = Markings in feet
(fiber count $\leq$ 10)
3 = Markings in feet
(fiber count $>$ 10)

7 Defines tensile strength.

1 = See Specifications.

8 Select performance option code.

30 = 62.5 μ m multimode, OM1
31 = 50 μ m multimode, OM2
80 = 50 μ m multimode, OM3
90 = 50 μ m multimode, OM4
91 = 50 μ m multimode, OM4+
31 = Single-mode, OS2
(Max. attenuation .65 / .65 / 0.5 dB/km)

9 Defines cable type.

- = Standard for MIC® Cable

10 Defines special requirements.

29 = Standard for MIC Plenum Cable

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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