Reel In A Box, MIC® Tight-Buffered Cable, Plenum

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Features and Benefits

"Countdown" print indicates available cable remaining on the reel providing easier inventory management

Stackable boxes make storage more manageable

Smaller reel offerings mean smaller cable lengths than would normally be available

Cable cutting at Corning lowers operating expenses for our distributors and end users

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 applications)

Reel in a Box is Corning's innovative packaging solution for small reels of fiber optic cable in all inside plant applications, such as collocation data centers and wireless projects. This packaging solution provides features that enable our customers greater efficiencies than before.

Corning 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.

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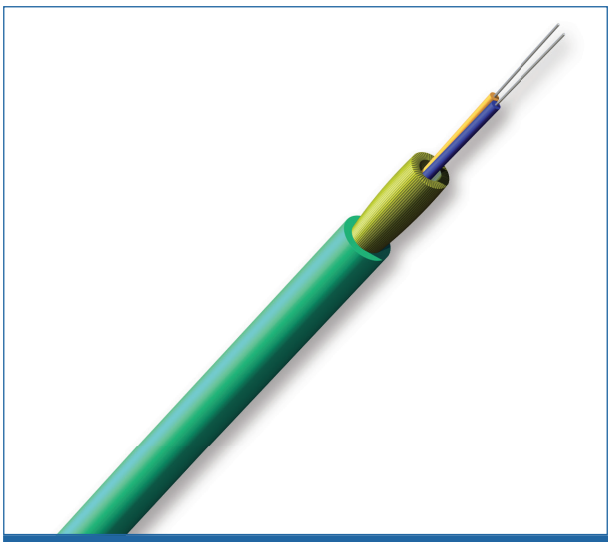

MIC Plenum Cables, 2 Fibers
| Photo PIM0879

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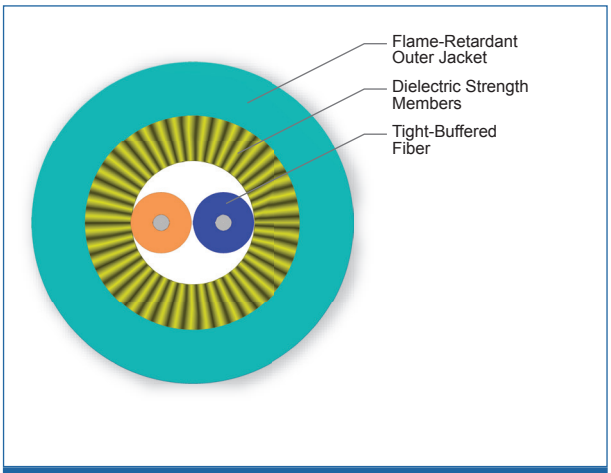

MIC Plenum Cables, 2 Fibers
| Photo PIM1779

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	440 N (100 lbf)
Max. Tensile Strength, Long-Term	132 N (30 lbf)

Mechanical Characteristics Cable						
Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
Multimode						
2	Yarn	5 mm (0.2 in)	75 mm (3 in)	25 mm (1 in)	21 kg/km (15 lb/1000 ft)	Distribution
4	Yarn	5.3 mm (0.21 in)	80 mm (3.2 in)	27 mm (1.1 in)	25 kg/km (17 lb/1000 ft)	Distribution

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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
Single-Mode						
2	Yarn	5 mm (0.2 in)	75 mm (3 in)	25 mm (1 in)	21 kg/km (15 lb/1000 ft)	Distribution
4	Yarn	5.3 mm (0.21 in)	80 mm (3.2 in)	27 mm (1.1 in)	25 kg/km (17 lb/1000 ft)	Distribution

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/-

Notes: 1) *Improved attenuation and bandwidth options available.*
2) *Bend-insensitive single-mode fibers available on request.*
3) *50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
4) *Contact a Corning Customer Care Representative for additional information.*

Single-mode		
Fiber Name	SMF-28e® fiber	ClearCurve® XB**
Fiber Category	G.652.D	G.652.D/G.657.A1
Fiber Code	E	H
Performance Option Code	31	31
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50	0.65/0.65/0.5

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

1	1	1	2	8	8	-	3	5	6	7	8	8	9	-	10	10
☐	☐	☐	☐	8	8	-	3	☐	1	☐	☐	☐	-	☐	☐	

1 Select fiber count.
Standard offerings:
002 004

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 = 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 ft (fiber count ≤ 10)
3 = Markings in ft (fiber count > 10)

7 Defines tensile strength.
1 = See specifications

8 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)

9 Defines cable type.
- = Standard for MIC cable

10 Select reel length.
B1 = 500 ft (150 m)
B2 = 1000 ft (300 m)
B3 = 1500 ft (450 m)
B4 = 2000 ft (600 m)

Reel in a Box Shipping Dimensions (HxWxD)
39.37 x 39.37 x 38.73 cm – 15.5 x 15.5 x 15.25 in

Note: 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 while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

RoHS COMPLIANT

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