MIC® Plenum Cables, 2-24 Fibers

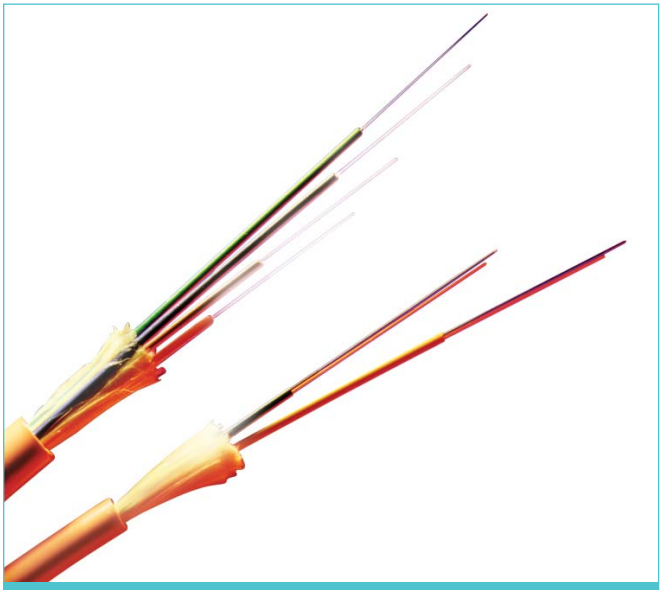
A LANscape® Pretium™ Solutions Product

features and benefits |

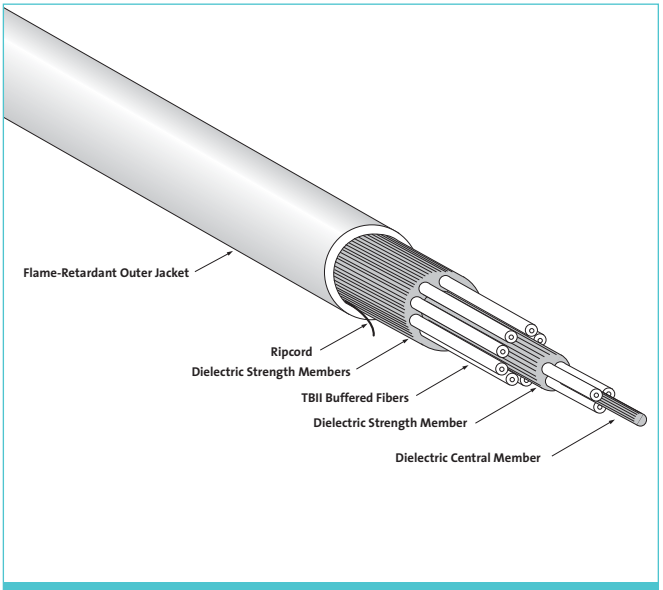
900 µm TBII® Buffered Fibers	Easy, consistent stripping
All-dielectric cable construction	Requires no grounding or bonding
Flame-retardant jacket	Rugged and durable

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. For special applications requiring additional mechanical durability, an interlocking armor option is available. Ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations, these cables are available in 50 µm, 62.5 µm, single-mode and hybrid versions. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC® Article 770) and are OFNP and FT-6 listed for plenum, riser and general purpose use. They are also offered with Gigabit Ethernet and 10 Gigabit Ethernet performance.

RoHS COMPLIANT



MIC Plenum Cables | Photo LAN04



MIC Plenum Cable, 12-Fiber | Drawing CPC-220/1/39

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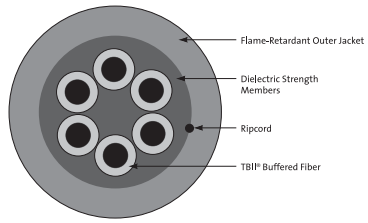
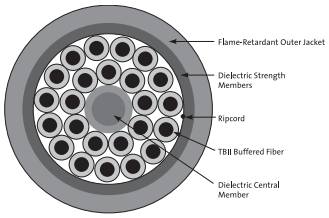


OFNP MIC® Cable, 6-Fiber | Drawing CPC-220/1/37



OFNP MIC Cable, 24-Fiber | Drawing CPC-220/1/38

specifications |

Temperatures	Storage:	-40° to +70°C (-40° to +158°F)
	Installation:	0° to +60°C (+32° to +140°F)
	Operation:	0° to +70°C (+32° to +158°F)
Approvals 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)	

Corning Cable Systems recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Fiber Count	Nominal Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Central Member	Maximum Tensile Loads Short-Term N (lbf)	Maximum Tensile Loads Long-Term N (lbf)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
Single Layer							
2	5.0 (0.20)	21 (15.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.0 (2.0)
4	5.3 (0.21)	25 (17.0)	Y	440 (99)	132 (30)	8.0 (3.2)	5.3 (2.1)
6	5.3 (0.21)	27 (19.0)	Y	440 (99)	132 (30)	8.0 (3.2)	5.3 (2.1)
8	5.9 (0.23)	35 (25.0)	JY	440 (99)	132 (30)	8.9 (3.5)	5.9 (2.3)
Dual Layer							
12 (9/3)	6.1 (0.24)	37 (26.0)	Y	440 (99)	132 (30)	9.2 (3.6)	6.1 (2.4)
18 (12/6)	7.4 (0.29)	56 (40.0)	Y	660 (148)	198 (45)	11.1 (4.4)	7.4 (2.9)
24 (15/9)	7.8 (0.31)	64 (45.0)	Y	660 (148)	198 (45)	11.7 (4.6)	7.8 (3.1)

Note:
Central Member Types: Y = Yarn, JY = Jacketed Yarn.
Fiber arrangement in dual-layer designs is shown in parentheses. Example: (9/3) = 9 outside fibers around 3 inner fibers.

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transmission performance |

	LANscape® 62.5 Solutions	Pretium™ 150 Solutions	Pretium 300 Solutions	Pretium 550 Solutions	Pretium 600 Solutions	Single-Mode	Bend-Improved Single-Mode
Fiber Code	K	C	S	S	S	E	H
Performance Option Code	30	31	80	90	91	31	31
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode****	Bend-Improved Single-mode*****
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3***	OM3***	OM3***	OS2	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.65/0.65/0.5	0.65/0.65/0.5
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	1500/500	1500/500	– / – / –	– / – / –
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ –	950/ –	2000/ –	4700/ –	5350/ –	– / – / –	– / – / –
Serial 1 Gig Distance (m)	300/550	750/600	1000/600	1000/600	1000/600	5000 / – / –	5000 / – / –
Serial 10 Gig Distance (m)	33/ –	150/ –	300/ –	550*/ –	600**/ –	10000/ – /40000	10000/ – /40000

** 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 Corning Cable Systems Plug & Play Solutions.*
***** ITU 652.D compliant.*
****** ITU 652.D compliant, ITU 657.A compliant.*

Notes:
1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact Corning Cable Systems Customer Service Representative for additional information.

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ordering information | Contact Customer Service at 800-743-2671 for other options.

☐	☐	☐	☐	8	8	-	3	☐	1	☐	☐	-	2	9
1	2	3	4	5	6		7	8	9	10	11	12	13	14

1-3

Select fiber count.

002 006 012 024
004 008 018

4

Select fiber code (see Transmission Performance Table).

5 / 12

Defines cable type.

8/- = Standard for MIC® Cable

6

Defines outer jacket.

8 = Standard for plenum

7

Defines fiber placement.

3 = Standard

8

Select length markings.

1 = Markings in feet (fiber count in ≤10)
3 = Markings in feet (fiber count >10)

9

Defines tensile strength (see Specifications).

10-11

Select performance option code (see Transmission Performance Table).

13-14

Defines special requirements.

29 = Standard for MIC Plenum Cable

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