

MIC® DX Armored Plenum Cables, 6-24 Fibers

CORNING

Features and Benefits

Dielectric armor

Four times crush protection compared to unarmored

TBII buffered fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Easy armor removal

Increased safety and speed at installation

Standards

Approvals and Listings

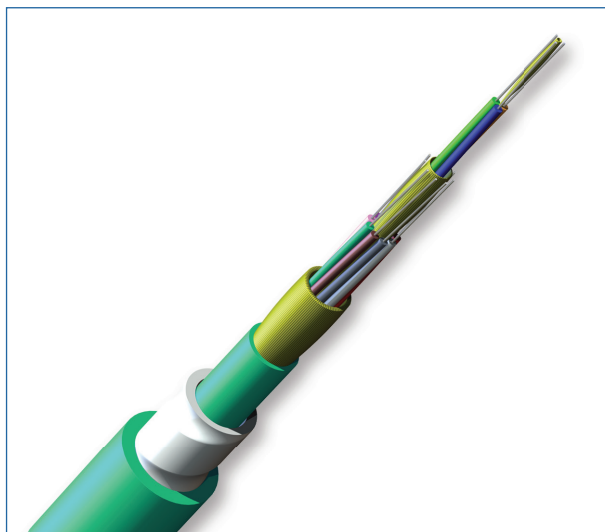
National Electrical Code®
(NEC®) OFNP, CSA FT-6,
ICEA S-83-596

Flame Resistance

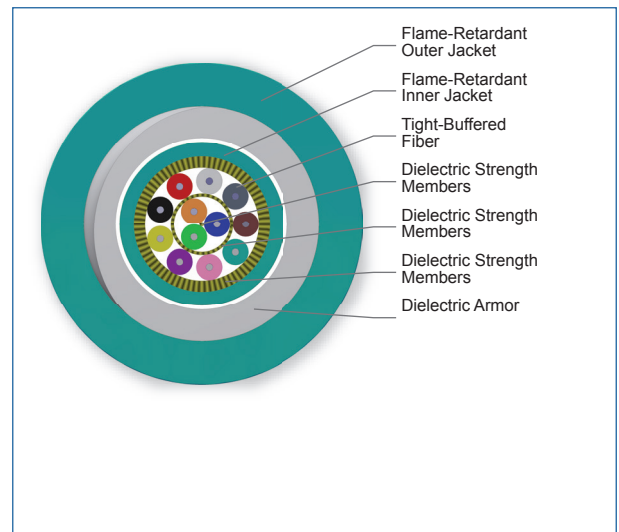
NFPA 262 (for plenum, riser
and general building appli-
cations)

Corning MIC® DX armored plenum cables are standard MIC subunits placed inside a dielectric armor for ruggedness and superior crush resistance without the conductive properties of traditional armor. These cables are designed for use in intrabuilding backbone and horizontal installations. Individually jacketed TBII® buffered fibers enable easy, consistent stripping and facilitate termination.

The fibers are stranded around a dielectric central member that is protected by a flexible, all-dielectric armor offering easy, one-step installation and over four times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.



MIC DX Armored Plenum Cables, 12 Fibers
| Photo PIM1270

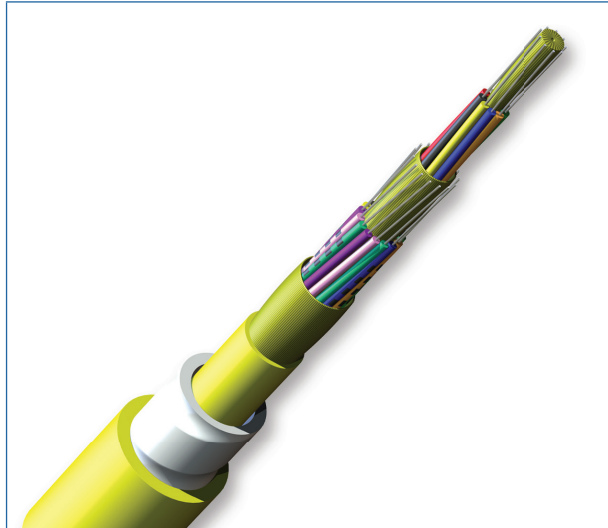


MIC DX Armored Plenum Cables, 12 Fibers
| Photo PIM2168

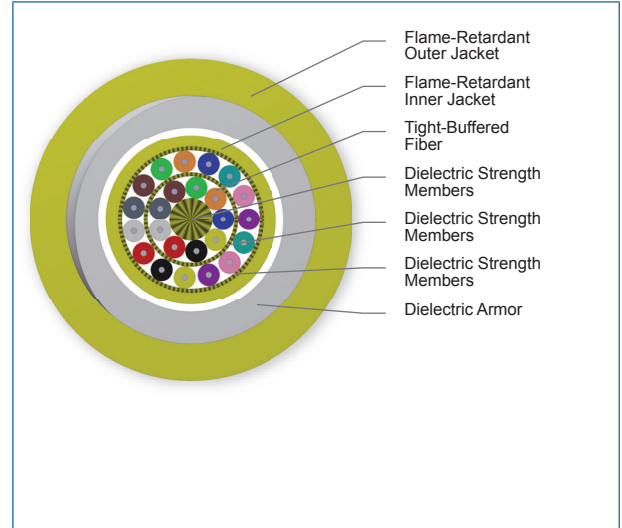
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MIC® DX Armored Plenum Cables, 6-24 Fibers

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MIC DX Armored Plenum Cables, 24 Fibers
| Photo PIM1271



MIC DX Armored Plenum Cables, 24 Fibers
| Photo PIMtbd

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						
Fiber Count	Nominal Inner Cable Dia-meter	Nominal Outer Dia-meter	Min. Bend Radius Instal-lation	Min. Bend Radius Ope-ration	Weight	Product Type
6	4.4 mm (0.17 in)	10.5 mm (0.41 in)	158 mm (6.2 in)	105 mm (4.1 in)	123.9 kg/km (83.3 lb/1000 ft)	Dielectric armor
12	5.6 mm (0.22 in)	11.5 mm (0.45 in)	173 mm (6.8 in)	115 mm (4.5 in)	143.3 kg/km (96.3 lb/1000 ft)	Dielectric armor
24	6.8 mm (0.27 in)	13.1 mm (0.52 in)	197 mm (7.7 in)	131 mm (5.2 in)	188.7 kg/km (126.8 lb/1000 ft)	Dielectric armor

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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	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	200/500	750/600	1500/500	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	220/-	150/-	2000/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	300/550	700/500	1000/600	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	33/-	950/-	300/-	4700/-	5350/-

* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

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

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
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.*

				8	8	-	3		1			-	D	3
1	2	3	4	5	6	7	8	9	10					

1 Select fiber count.

Standard offerings:

006 012 024

2 Select fiber code.

K = 62.5 µm multimode (OM1)

T = 50 µm multimode,
(OM2/OM3/OM4/OM4+)

E = Single-mode (OS2)

SMF-28e+®

H = ClearCurve® XB

Single-mode (OS2)

4 Defines outer jacket.

8 = Plenum

5 Defines fiber placement.

3 = Standard

6 Select length markings.

1 = Markings in ft
(fiber count < 12)

3 = Markings in ft
(fiber count ≥ 12)

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

3 Defines cable type.

8 = Standard for MIC® Cable

7 Defines tensile strength.

1 = See Specifications.

10 Defines special manufacturing code.

D3 = All-dielectric armored
with plenum-rated jacket

Note: This cable is available in 12 different jacket colors: blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. Black is the standard jacket color using the part number configurator above. Contact Customer Care at 1-800-743-2675 to order other color options.



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