

# 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

### Approval and Listings

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

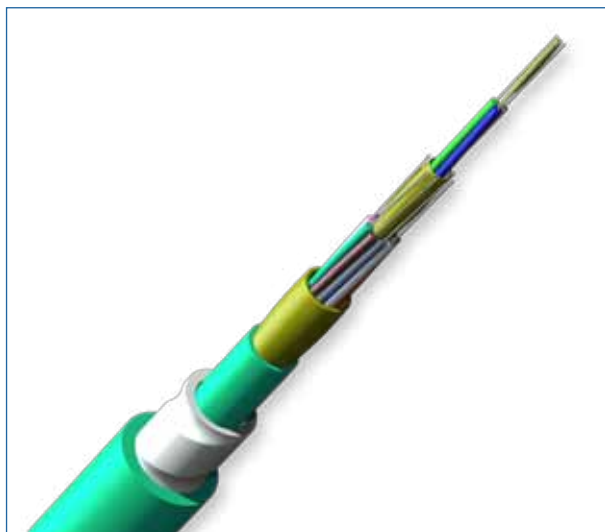
### Flame Resistance

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

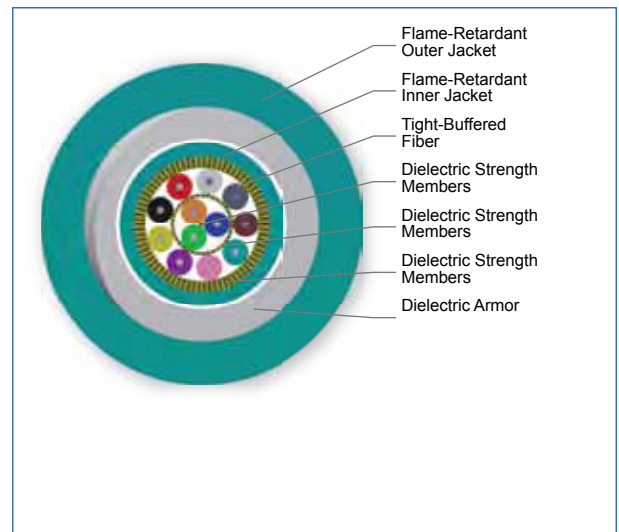
Corning Cable Systems MIC® DX Armored Plenum Cables are standard MIC subunits placed inside a dielectric armor for ruggedness and superior crush resistance without the conductive properties of traditional armor. These cables are designed for use in intrabuilding backbone and horizontal installations. 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.

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® DX Armored Plenum Cables, 12-Fibers

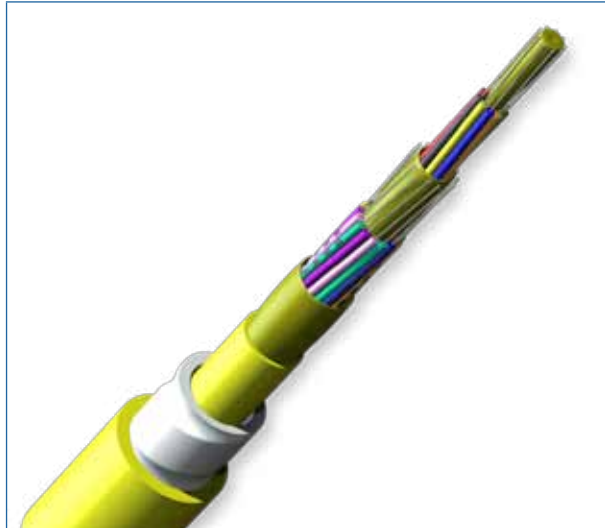


MIC® DX Armored Plenum Cables, 12-Fibers

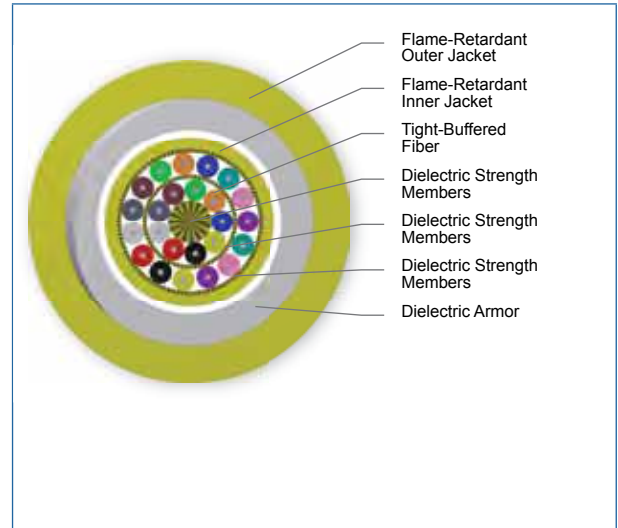
CORNING

# MIC® DX Armored Plenum Cables, 6-24 Fibers

CORNING



MIC® DX Armored Plenum Cables, 24-Fibers



MIC® DX Armored Plenum Cables, 24-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)

\* 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

Fiber Count	Product Type	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
6	Dielectric armor	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)
12	Dielectric armor	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)
24	Dielectric armor	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)

CORNING

# MIC® DX Armored Plenum Cables, 6-24 Fibers

CORNING

## 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
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 / -	
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
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.

CORNING

# MIC® DX Armored Plenum Cables, 6-24 Fibers

CORNING

Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	8	8 - 3	<input type="text"/>	1	<input type="text"/>	<input type="text"/>	-	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®

**3** Defines cable type.

8 = Standard for MIC® Cable

**4** Defines outer jacket.

8 = Plenum

**5** Defines fiber placement.

3 = Standard

**6** Select length markings.

1 = Markings in feet  
(fiber count < 12)

3 = Markings in feet  
(fiber count ≥ 12)

**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 dB/km)

**9** Defines cable type.

- = Standard for MIC® Cable

**10** Defines special manufacturing code.

D3 = All-dielectric armored  
with plenum-rated jacket

The 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.



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/cablesystems](http://www.corning.com/cablesystems)

A complete listing of the trademarks of Corning Cable Systems is available at [www.corning.com/cablesystems/trademarks](http://www.corning.com/cablesystems/trademarks).

Corning Cable Systems is ISO 9001 certified. © 2012 Corning Cable Systems. All rights reserved.

CORNING