

MIC® DX Armored Plenum Cables, 6-24 Fibers



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

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.

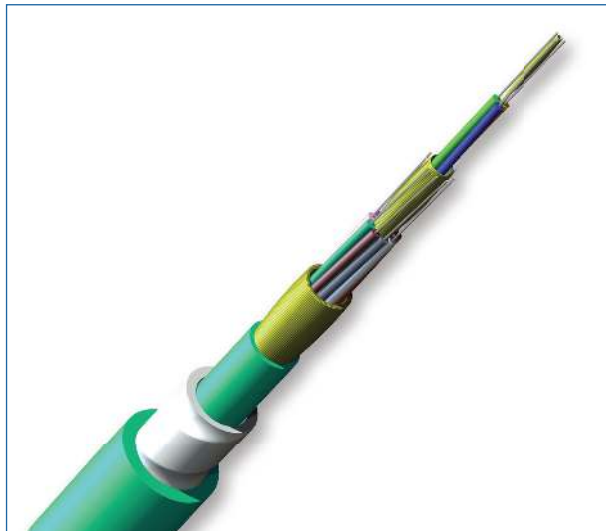
Standards

Approvals and Listings

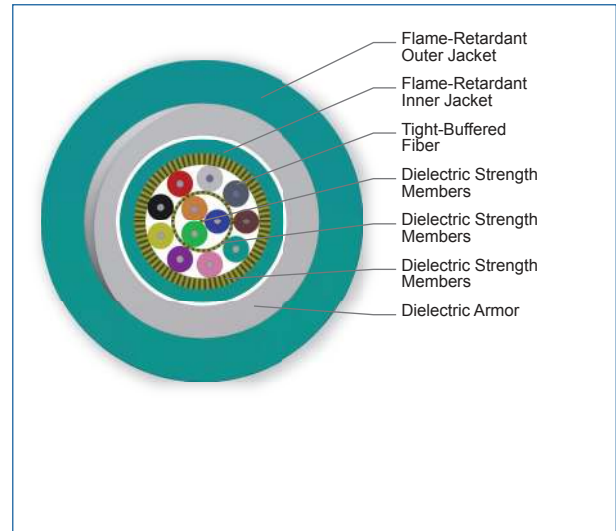
National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596

Flame Resistance

NFPA 262 (for plenum, riser and general building applications)



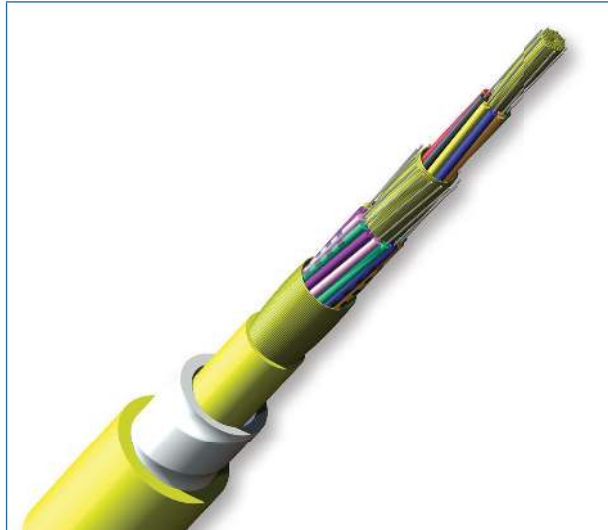
MIC DX Armored Plenum Cables, 12 Fibers | Photo PIM1270



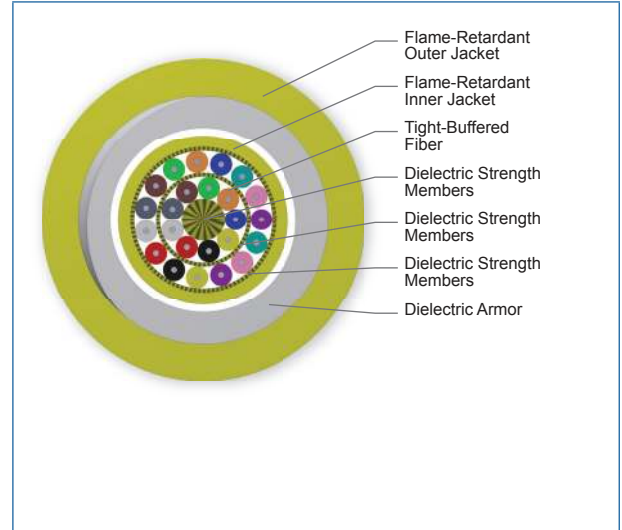
MIC DX Armored Plenum Cables, 12 Fibers | Photo PIM2168

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.

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
6	5.2 mm (0.20 in)	10.2 mm (0.40 in)	153 mm (6.0 in)	102 mm (4.0 in)	110 kg/km (73.9 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)	300/550	750/600	1500/500	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	2000/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1000/600	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	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 & Play™/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.

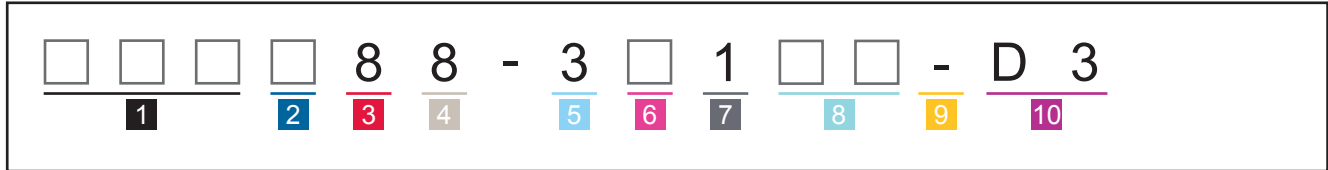
Single-mode	
Fiber Name	SMF-28e [®] fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.5

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



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+®
Z = Single-mode (OS2)
SMF-28® ULTRA

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 ft
(fiber count < 12)
3 = Markings in ft
(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 / 0.5 dB/km)

9 Defines cable type.
- = Standard for MIC® Cable

10 Defines special manufacturing code.
D3= All-dielectric armored
with plenum-rated jacket

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. 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.



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