

MIC® Plenum Cables

2-24 Fiber

A LANscape® Pretium™ Solutions Product



Corning
Cable Systems

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)
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Approvals and Listings	National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596
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Flame Resistance	NFPA 262 (for plenum, riser and general building applications)
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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		Minimum Bend Radius	
				Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed cm (in)
Single Layer							
2	5.0 (0.20)	22 (15.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.0 (2.0)
4	5.3 (0.21)	26 (17.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.3 (2.1)
6	5.3 (0.21)	29 (19.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.3 (2.1)
8	5.9 (0.23)	37 (25.0)	JY	440 (99)	132 (30)	8.9 (3.5)	5.9 (2.3)
Dual Layer							
12 (9/3)	6.1 (0.24)	39 (26.0)	Y	440 (99)	132 (30)	9.1 (3.6)	6.1 (2.4)
18 (12/6)	7.4 (0.29)	59 (40.0)	Y	660 (148)	198 (45)	11.1 (4.4)	7.4 (2.9)
24 (15/9)	7.8 (0.31)	68 (45.0)	Y	660 (148)	198 (45)	11.7 (4.6)	7.8 (3.1)

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

Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	31
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	1.0/1.0/0.75
Minimum LED Bandwidth (MHz•km)	200/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz•km)	*220/ -	*510/ -	**2000/ -	***4700/ -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	300/ -	***550/ -	10000/40000

* As predicted by RML BW, per TIA/ELA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

** As predicted by minEMBc, per TIA/ELA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

*** As predicted by minEMBc, per TIA/ELA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

**** The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.