

Air Dielectric Cable



Plenum Rated Air Dielectric Coaxial Cable, corrugated copper, 1/2 in, off blue PVC jacket

Product Number: 023-AC12B-019



Construction Specification

Item	Material	Diameter(mm)	
1	Inner conductor	Copper-clad aluminum wire	4.8
2	Dielectric	Extruded Polyethylene	11.8
3	Outer Conductor	Corrugated copper	13.8
4	Jacket	PVC(White/Blue/Other)	15.8

Electrical Characteristics

1	Impedance (Ω)	50
2	Capacitance (pF/m)	75.4
3	Velocity (%)	88
4	Jacket Spark Test Voltage (rms) (V)	5000
5	Peak Power Rating (kW)	40
6	DC resistance, IC (Ω /km)	1.48
7	DC resistance, OC (Ω /km)	1.91
8	DC test voltage (kV)	4.0
9	Shielding Effectiveness (dB)	> 120

Mechanical and Environment Characteristics

1	Operating temp. ($^{\circ}$ C)	-20 to 85
2	Min. bend radius, static (mm)	25
3	Min. bend radius, multiple (mm)	125
4	Fire Retardancy Test Method	CMP
5	Weight (kg/m)	270
6	RoHS	Compliant

Average Power & Attenuation @ 20 $^{\circ}$ C and sea level,

Frequency (MHz)	Average Power(kW)	Attenuation(dB/m)	
1	300	0.950	4.10
2	600	0.516	5.96
3	700	0.330	6.48
4	960	0.294	7.72
5	1000	0.157	7.90
6	1700	0.143	10.67
7	2000	0.115	11.72
8	2700	0.094	13.97
9	3000	0.075	14.87

* Values typical, guaranteed within 5%

