


Product Data Sheet		Catalog Home	Step Search	View PDF
810953-001				
		1/2" FOAMFLEX Foam-Dielectric Coaxial Cable		
Product Specifications				
Cable Type	foam-dielectric, smooth wall aluminum			
Size	1/2"			
Jacket	Yes			
VSWR	Standard			
Model Number	FXA12-50J			
Impedance, Ohm	50			
Maximum Frequency, GHz	10			
Velocity, percent	81			
Peak Power Rating, kW	125			
Inner dc Resistance, ohm/1000 ft	0.50 (1.63)			
Outer dc Resistance, ohm/1000 ft (1000 m)	0.33 (1.09)			
dc Breakdown, Volt	5900			
Jacket Spark, volt RMS	8000			
Capacitance, pF/ft (m)	25 (82.0)			
Inductance, μH/ft (m)	0.063 (0.207)			
Outer Conductor Material	Smooth Aluminum			
Inner Conductor Material	Copper-Clad Aluminum			
Diameter over Jacket Maximum, in (mm)	0.625 (15.9)			
Diameter Copper Outer Conductor, in (mm)	0.500 (12.7)			
Diameter Inner Conductor, in(mm)	0.162 (4.1)			
Nominal Inside Transverse Dimension, in (mm)	0.450 (11.4)			
Minimum Bending Radius, in (mm)	5 (127)			
Number of Bends, minimum	5			
Bending Moment, lb-ft (N•m)	8 (109)			
Cable Weight, lb/ft (kg/m)	0.138 (0.21)			
Tensile Strength, lb (N)	250 (113)			
Flat Plate Crush, lb/in (kg/mm)	110 (1.9)			

Storage Temperature, °F(°C)	-94 to +185 (-70 to +85)
Installation and Operation Temperature, °F(°C)	-40 to +185 (-40 to +85)
RG Number	RG331/U
Phase Stabilized	No

FXA12-50/J
ATTENUATION AND AVERAGE POWER

Frequency MHz	Attenuation dB/100 ft.	Attenuation dB/100 m	Average Power kW
0.5	0.0603	0.198	41.5
1	0.0854	0.280	29.3
1.5	0.105	0.343	23.9
2	0.121	0.397	20.7
10	0.273	0.895	9.17
20	0.388	1.27	6.44
30	0.477	1.57	5.24
50	0.621	2.04	4.03
88	0.832	2.73	3.01
100	0.889	2.92	2.81
108	0.925	3.04	2.70
150	1.10	3.61	2.27
174	1.19	3.90	2.10
200	1.28	4.20	1.95
300	1.59	5.21	1.57
400	1.86	6.09	1.35
450	1.98	6.49	1.26
500	2.10	6.88	1.19
512	2.12	6.97	1.18
600	2.32	7.60	1.08
700	2.52	8.27	0.991
800	2.72	8.91	0.920
824	2.76	9.06	0.905
894	2.89	9.48	0.865
960	3.01	9.87	0.831
1000	3.08	10.1	0.812
1250	3.49	11.5	0.716
1500	3.88	12.7	0.645
1700	4.17	13.7	0.600
2000	4.58	15.0	0.546
2300	4.97	16.3	0.503
3000	5.83	19.1	0.429
4000	6.94	22.8	0.360
5000	7.96	26.1	0.314
6000	8.92	29.3	0.280
8000	10.7	35.2	0.233
10000	12.4	40.7	0.202

Standard Conditions:

For attenuation: VSWR 1.0, ambient temperature 20° C (68° F).

For average power: VSWR 1.1:1, ambient temperature 40° C (104°F),

inner conductor temperature 100° C (212° F). No solar loading.

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