

CFA930

Flexible, Low-Loss,
Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.44	Silver Plated Coppe
2	Insulating	7.24	LD-PTFE
3	Outer Conductor	7.48	Silver Plated Copper Ribbon
4	Shielding	8.20	Silver Plated Copper
5	Jacket	9.30	FEP

Specification

1	Operating Frequency (GHz)	10
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz
4	Phase Stability (Temperature)	$< 1400\text{PPM}@-55^\circ\text{C}\sim+85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}@10\text{GHz}$
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	2500
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	180
10	Single Bend Radius (mm)	46.00
11	Repeated Bend Radius (mm)	93.00
12	Temperature Range ($^\circ\text{C}$)	$-55\sim+165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	2000	3000	4000	5000	6000	8000	10000
Attenuation (dB/m)	0.039	0.067	0.088	0.126	0.181	0.225	0.263	0.298	0.329	0.386	0.438
Average Power (KW)	5.990	3.420	2.629	1.833	1.271	1.023	0.875	0.775	0.701	0.597	0.526



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