

CFS830

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.44	Silver Plated Copper
2	Insulating	6.50	LD-PTFE
3	Outer Conductor	6.90	Silver Plated Copper Ribbon
4	Shielding	7.65	Silver Plated Copper
5	Jacket	8.30	PFA

Specification

1	Operating Frequency (GHz)	18
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz; $\leq \pm 3^\circ$ @18GHz
4	Phase Stability (Temperature)	$< 750\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	83%
7	Voltage Withstand (V, DC)	2500
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	162
10	Single Bend Radius (mm)	41.00
11	Repeated Bend Radius (mm)	83.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	1000	2000	4000	6000	8000	10000	12400	16000	18000
Attenuation (dB/m)	0.133	0.189	0.271	0.336	0.391	0.441	0.495	0.569	0.606
Average Power (KW)	1.894	1.326	0.925	0.747	0.641	0.569	0.507	0.442	0.414



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