

CFS520

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.45	Silver Plated Copper
2	Insulating	3.99	LD-PTFE
3	Outer Conductor	4.19	Silver Plated Copper Ribbon
4	Shielding	4.60	Silver Plated Copper
5	Jacket	5.20	PFA

Specification

1	Operating Frequency (GHz)	26.5
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)	1500
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	67
10	Single Bend Radius (mm)	26.00
11	Repeated Bend Radius (mm)	52.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	2000	3000	6000	10000	12400	18000	26500
Attenuation (dB/m)	0.073	0.127	0.165	0.234	0.333	0.410	0.585	0.763	0.854	1.038	1.275
Average Power (KW)	2.934	1.688	1.305	0.919	0.646	0.525	0.368	0.282	0.252	0.207	0.169



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