

CFS550

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.60	Silver Plated Copper
2	Insulating	4.30	LD-PTFE
3	Outer Conductor	4.50	Silver Plated Copper Ribbon
4	Shielding	5.10	Silver Plated Copper
5	Jacket	5.60	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	$\leq \pm 0.1\text{dB}@18\text{GHz}$
6	Velocity of Propagation	83%
7	Voltage Withstand (V, DC)	2000
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	93
10	Single Bend Radius (mm)	28.00
11	Repeated Bend Radius (mm)	56.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	2000	3000	4000	6000	8000	10000	12400	18000
Attenuation (dB/m)	0.070	0.122	0.157	0.223	0.316	0.388	0.448	0.550	0.636	0.713	0.795	0.961
Average Power (KW)	3.248	1.873	1.450	1.024	0.723	0.589	0.509	0.415	0.359	0.320	0.287	0.237



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