

CFS310

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.70	Silver Plated Copper
2	Insulating	1.93	LD-PTFE
3	Outer Conductor	2.09	Silver Plated Copper Ribbon
4	Shielding	2.66	Silver Plated Copper
5	Jacket	3.10	PFA

Specification

1	Operating Frequency (GHz)	50
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 3^\circ @ 18\text{GHz}; \leq \pm 5^\circ @ 26.5\text{GHz}$
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	82%
7	Voltage Withstand (V, DC)	500
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	29
10	Single Bend Radius (mm)	15.00
11	Repeated Bend Radius (mm)	31.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	1000	2000	4000	6000	8000	10000	18000	26500	40000	50000
Attenuation (dB/m)	0.147	0.255	0.468	0.666	0.950	1.171	1.359	1.527	2.079	2.554	3.189	3.601
Average Power (KW)	1.301	0.748	0.407	0.286	0.201	0.163	0.140	0.125	0.092	0.075	0.060	0.053



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