

CFS1200

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	3.80	Silver Plated Copper (Multi-fiber Stranded)
2	Insulating	10.40	LD-PTFE
3	Outer Conductor	\	Silver Plated Copper Ribbon
4	Shielding	11.35	Silver Plated Copper
5	Jacket	12.00	PTFE
			PUR

Specification

1	Operating Frequency (GHz)	8
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ @ 8 \text{ GHz}$
4	Phase Stability (Temperature)	$< 750 \text{ PPM} @ -55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1 \text{ dB} @ 8 \text{ GHz}$
6	Velocity of Propagation	83%
7	Voltage Withstand (V,DC)	4000
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	280
10	Single Bend Radius (mm)	60.00
11	Repeated Bend Radius (mm)	110.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +85$

Attenuation VS. Frequency

Frequency (MHz)	100	300	400	500	1000	1250	2000	3000	4000	6000	8000		
Attenuation (dB/m)	0.030	0.053	0.062	0.069	0.100	0.112	0.144	0.180	0.210	0.263	0.310		
Average Power (KW)	5.510	3.141	2.708	2.412	1.679	1.492	1.161	0.933	0.797	0.636	0.540		