

CFP1500

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	4.40	Silver Plated Copper
2	Insulating	12.50	LD-PTFE
3	Outer Conductor	12.82	Silver Plated Copper Ribbon
4	Sandwich Layer	12.95	Aluminum Foil (High temperature)
5	Shielding	13.67	Silver Plated Copper
6	Jacket	14.70	FEP

Specification

1	Operating Frequency (GHz)	6
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @6GHz
4	Phase Stability (Temperature)	$< 1400\text{PPM}@-55^\circ\text{C}\sim+85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}@6\text{GHz}$
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	4000
8	Shielding Effectiveness (dB)	> 100
9	Weight (g/m)	400
10	Single Bend Radius (mm)	76.00
11	Repeated Bend Radius (mm)	150.00
12	Temperature Range ($^\circ\text{C}$)	$-55\sim+200$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	800	1000	2000	3000	5000	6000
Attenuation (dB/m)	0.031	0.054	0.071	0.091	0.102	0.148	0.184	0.245	0.271
Average Power (KW)	13.440	7.650	5.870	4.590	4.080	2.818	2.260	1.703	1.537



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