

CFN400

Flexible, Low-Loss,

Excellent Temperature Phase Stability Characteristics RF Coaxial Cable

Ver: S-A01



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.05	Silver Plated Copper
2	Insulating	2.75	Lotus Shaped Plastic
3	Outer Conductor	2.95	Silver Plated Copper Ribbon
4	Sandwich layer	3.17	PTFE
5	Shielding	3.57	Silver Plated Copper
6	Jacket	4.00	FEP

Specification

1	Operating Frequency(GHz)	40
2	Impedance(Ohms)	50
3	Velocity of Propagation	82%
4	Voltage Withstand (V,DC)	1500
5	Shielding Effectiveness(dB)	≥90
6	Phase Stability vs. Temperature(PPM)	≤300 @-40~+60℃
7	Weight(g/m)	40
8	Single Bend Radius(mm)	20.00
9	Repeated Bend Radius(mm)	40.00
10	Temperature Range(℃)	-55~+165

Attenuation (Typical@25℃ & VSWR=1.0) VS. Frequency VS. Power (VSWR=1.0; 40℃; Sea Level)

Frequency (MHz)	300	1000	2000	4000	6000	7000	8000	12000	18000	26500	40000
Attenuation (dB/m)	0.209	0.388	0.558	0.806	1.003	1.091	1.173	1.469	1.847	2.309	2.944
Average Power (KW)	0.946	0.509	0.355	0.246	0.197	0.181	0.169	0.135	0.107	0.086	0.067

$$K1=1.1823955$$

$$K2=0.0014490$$

$$\text{Calculate Attenuation} = K1*\sqrt{\text{FMHz}}+K2*\text{FMHz}$$



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