

CFS150

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable RF Coaxial Cable

Ver: S-A01



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.30	Silver Plated Copper
2	Insulating	0.88	LD-PTFE
3	Outer Conductor	1.00	Silver Plated Copper Ribbon
4	Shielding	1.18	Silver Plated Copper
5	Jacket	1.50	FEP

Specification

1	Operating Frequency(GHz)	40
2	Impedance(Ohms)	50
3	Velocity of Propagation	77%
4	Voltage Withstand (V,DC)	600
5	Shielding Effectiveness(dB)	≥90
6	Weight(g/m)	5.4
7	Single Bend Radius(mm)	8.00
8	Repeated Bend Radius(mm)	15.00
9	Temperature Range(°C)	-55~+125

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation (dB/m)	1.137	1.616	1.985	2.829	3.280	3.680	4.113	4.993	6.115	7.604
Average Power (KW)	0.039	0.027	0.022	0.016	0.014	0.012	0.011	0.009	0.007	0.006

$$K1=3.5578460$$

$$K2=0.0012210$$

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



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