

CFS810

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable RF Coaxial Cable

Ver: S-A01



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Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.40	Silver Plated Copper
2	Insulating	6.36	LD-PTFE
3	Outer Conductor	6.60	Silver Plated Copper Ribbon
4	Shielding	7.10	Silver Plated Copper
5	Jacket	8.10	FEP

Specification

1	Operating Frequency(GHz)	18
2	Impedance(Ohms)	50
3	Velocity of Propagation	83%
4	Voltage Withstand (V,DC)	3000
5	Shielding Effectiveness(dB)	≥90
6	Weight(g/m)	140
7	Single Bend Radius(mm)	40.00
8	Repeated Bend Radius(mm)	81.00
9	Temperature Range(°C)	-55~+165

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	16000	18000
Attenuation (dB/m)	0.137	0.195	0.241	0.348	0.406	0.458	0.515	0.593	0.633
Average Power (KW)	2.405	1.681	1.360	0.943	0.808	0.716	0.637	0.554	0.519

$$K1=0.4194900$$

$$K2=0.0003890$$

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



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