

CFS830

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable RF Coaxial Cable

Ver: B-A01



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Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.44	Silver Plated Copper
2	Insulating	6.55	LD-PTFE
3	Outer Conductor	6.90	Silver Plated Copper Ribbon
4	Shielding	7.35	Silver Plated Copper
5	Jacket	8.30	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)	162
7	Single Bend Radius(mm)	42.00
8	Repeated Bend Radius(mm)	83.00
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)	300	1000	2000	3000	6000	8000	10000	12000	16000	18000
Attenuation (dB/m)	0.072	0.133	0.189	0.234	0.336	0.391	0.441	0.486	0.569	0.606
Average Power (KW)	4.491	2.433	1.703	1.380	0.960	0.824	0.731	0.663	0.567	0.532

$$K1=0.4089970$$

$$K2=0.0003200$$

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



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