

CFT420MW

Flexible, Ultra Low-Loss, Long Bending Life,

Suitable for Precision Testing, Phase & Amplitude Stable RF Coaxial Cable

Ver: S-A01



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.02	Silver Plated Copper (Stranded)
2	Wrapping layer	/	PFA
3	Insulating	2.80	LD-PTFE
4	Outer Conductor	2.95	Silver Plated Copper Ribbon
5	Sandwich layer	3.20	PTFE
6	Shielding	3.62	Silver Plated Copper
7	Jacket	4.20	FEP

Specification

1	Operating Frequency(GHz)	40
2	Impedance(Ohms)	50
3	Velocity of Propagation	81%
4	Voltage Withstand (V,DC)	1500
5	Shielding Effectiveness(dB)	≥90
6	Weight(g/m)	40
7	Single Bend Radius(mm)	21.00
8	Repeated Bend Radius(mm)	42.00
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	18000	26500	40000
Attenuation (dB/m)	0.405	0.576	0.708	1.008	1.169	1.312	1.466	1.780	2.180	2.712
Average Power (KW)	0.743	0.523	0.426	0.299	0.258	0.230	0.205	0.169	0.138	0.111

$$K1=1.2677950$$

$$K2=0.0004400$$

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



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