

# CFA520M

Flexible Better, Low-Loss,

Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.35	Silver Plated Copper (Multi-Fiber Stranded)
2	Insulating	3.80	LD-PTFE
3	Outer Conductor	4.00	Silver Plated Copper Ribbon
4	Shielding	4.55	Silver Plated Copper
5	Jacket	5.30	FEP

## Specification

1	Operating Frequency (GHz)	26.5
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 3^\circ$ @18GHz; $\leq \pm 5^\circ$ @26.5GHz
4	Phase Stability (Temperature)	$< 1400\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	1000
8	Shielding Effectiveness (dB)	$> 90$
9	Weight (g/m)	60
10	Single Bend Radius (mm)	26.00
11	Repeated Bend Radius (mm)	53.00
12	Temperature Range ( $^\circ\text{C}$ )	$-55 \sim +165$

## Attenuation VS. Frequency VS. Power

Frequency (MHz)	1000	2000	4000	6000	8000	10000	12400	18000	26500
Attenuation (dB/m)	0.306	0.436	0.623	0.770	0.895	1.007	1.129	1.378	1.699
Average Power (KW)	0.749	0.525	0.367	0.297	0.256	0.227	0.203	0.166	0.135



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