

CSA500

Super Flexible, Low-Loss,
Resistance to Harsh Environment Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.02	Silver Plated Copper ((Multi-fiber Stranded))
2	Insulating	3.00	LD-PTFE
3	Outer Conductor	3.20	Silver Plated Copper Ribbon
4	Shielding	3.78	Silver Plated Copper
5	Jacket	5.00	PUR

Specification

1	Operating Frequency (GHz)	26.5
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 4^\circ$ @18GHz; $\leq \pm 5^\circ$ @26.5GHz
4	Phase Stability (Temperature)	$< 1300\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
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)	50
10	Single Bend Radius (mm)	25.00
11	Reapted Bend Radius (mm)	50.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +85$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	300	500	1000	2000	3000	4000	6000	8000	10000	12400	18000	26500
Attenuation (dB/m)	0.205	0.267	0.385	0.559	0.698	0.820	1.032	1.219	1.390	1.579	1.980	2.521
Average Power (KW)	0.280	0.215	0.149	0.103	0.082	0.070	0.055	0.047	0.041	0.036	0.029	0.023



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