

VCA-VA230

Ultra Low Loss Phase Stable Coax Cable

Flexible RF Cables & Assemblies

Features:

- * Low Insertion Loss
- * High Phase Stability
- * High Power
- * Low PIM

Applications:

- * Phased-array Radar
- * Satellite Communication
- * Avionics

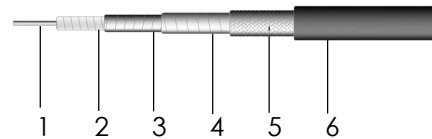
Electrical

Frequency:	DC~67GHz
Impedance:	50Ω
Velocity of Propagation:	74%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	500V DC

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Center Conductor	0.51	Silver-plated copper
2	Dielectric	1.60	Low density PTFE
3	Outer conductor	1.76	Silver Plated Copper Foil
4	Protective layer	1.81	PET
5	Outer shield	2.16	Silver-plated copper
6	Jacket	2.40	Gray FEP

Mechanical

Bend Radius (installation):	10.0mm
Bend Radius (repeated):	24.0mm
Weight:	18g/m

Attenuation & Power Handling

Frequency (GHz)	0.3	1	2	4	6	8	10	12	18	26.5	40	67
Attenuation*1 (dB/100m)	34.2	63.1	90.1	129.1	159.7	186	209.5	231	287.7	355.9	448	601.9
Average Power*2 (W)	500	271	190	132	107	92	82	74	59	48	38	28

[1] VSWR:1.0; Ambient: +25°C (77°F)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = $1.168470 * \sqrt{F \text{ (MHz)}} + 0.000550 * F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F \text{ (GHz)}}$

