

VCA-VA330

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

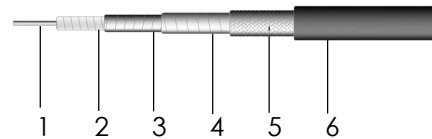
Electrical

Frequency:	DC~50GHz
Impedance:	50Ω
Velocity of Propagation:	74%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Center Conductor	0.72	Silver-plated copper
2	Dielectric	2.21	Low density PTFE
3	Outer conductor	2.38	Silver Plated Copper Foil
4	Protective layer	2.68	Low density PTFE
5	Outer shield	3.14	Silver-plated copper
6	Jacket	3.60	Blue FEP

Mechanical

Bend Radius (installation):	14.0mm
Bend Radius (repeated):	36.0mm
Weight:	34g/m

Attenuation & Power Handling

Frequency (GHz)	0.3	1	2	4	6	8	10	12	16	26.5	40	67
Attenuation*1 (dB/100m)	23.9	43.8	62.2	88.5	108.8	126.1	141.5	155.4	180.4	234.8	291.7	328.5
Average Power*2 (W)	750	409	288	202	165	142	127	115	99	76	61	55

[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) = $0.03 * \sqrt{F \text{ (GHz)}}$

