

VCA-RG214

Ultra Low Loss & Phase Stable

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~6GHz
Impedance:	50Ω±2
Capacitance:	101 pF/m
Velocity of Propagation:	66%
Shielding Effectiveness:	71dB min.
Signal Delay:	5 ns/m
PIM:	-155dBc
Operating Voltage:	≤5 kVrms(@sea level)

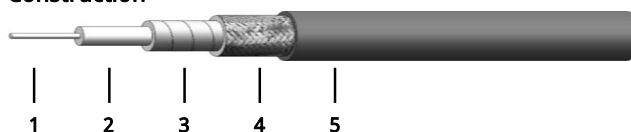
Mechanical

Weight:	185 g/m
Min. bending radius:	55mm (Static) 108mm (Dynamic)

Environmental

Temperature: -25~+85°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	2.25	Silver-plated copper
2	Dielectric	7.28	Low density PTFE
3	Inner Shield	8	Silver-plated copper tape
4	Outer Shield	8.7	Silver-plated copper braid
5	Jacket	10.8	PVC II

Attenuation & Power Handling

Frequency (GHz)	0.3	0.6	0.9	1.2	1.8	2.4	3	5.1	6
Attenuation*1 (dB/m)	0.13	0.19	0.25	0.30	0.38	0.46	0.54	0.78	0.87
Average Power*2 (W)	593	420	343	297	242	210	188	144	133

[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) = $0.730000 * \sqrt{F \text{ (MHz)}} + 0.000328 * F \text{ (MHz)}$

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

How To Order

VCA-X-RG214-Y-Z

X: Connector type

Y: Frequency in GHz

Z: Length in centimeter