VCA-RG400

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:	97 pF/m
Velocity of Propagation:	70%
Shielding Effectiveness:	81 dB min.
Signal Delay:	4.7 ns/m
Operating Voltage:	≤1.7 kVrms(@sea level)

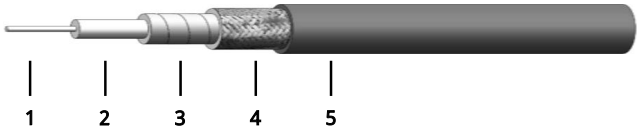
Mechanical

Weight:	64.8 g/m
Min. bending radius:	50mm (Static)
	75mm (Dynamic)

Environmental

Temperature: -25~+85℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.97	Silver-plated copper
2	Dielectric	2.95	Low density PTFE
3	Inner Shield	3.59	Silver-plated copper tape
4	Outer Shield	4.22	Silver-plated copper braid
5	Jacket	4.95	PVC II

Attenuation & Power Handling

Frequency (GHz)	0.1	0.4	0.9	1	1.8	2.4	3	5	6
Attenuation[*1] (dB/m)	0.15	0.32	0.50	0.52	0.72	0.83	0.94	1.22	1.34
Average Power[*2] (W)	2300	1050	660	610	440	380	330	260	220

[1] VSWR:1.0; Ambient: +25°C (77°F)
[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level
Calcuate Cable Attenuation: Attenuation (dB/100m) = $0.730000 * \sqrt{F\ (MHz)} + 0.000328 * F\ (MHz)$
Calcuate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F\ (GHz)}$

How To Order

VCA-X-RG400-Y-Z

X: Connector type
Y: Frequency in GHz
Z: Length in centimeter