VCA-SS402

Ultra Low Loss & Phase Stable

R-Test EconoFlex Coaxial Cables

Features:
* Low Insertion Loss
* High Phase Stability
* High Power
* Low PIM

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

Electrical

Frequency:	DC~26.5GHz
Capacitance:	96.1pF/m
Impedance:	50Ω
Velocity of Propagation:	70%
Signal delay:	4.72 ns/m
Insulation resistance:	≥ 1 x 10^8 MΩ/m
Screening effectiveness:	≥ -100dB
Phase Stability:	≤ 1.9 kVrms.

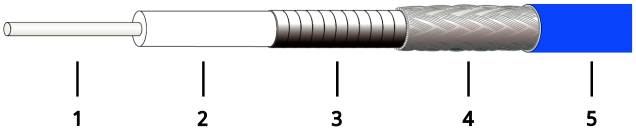
Mechanical

Weigh:	45 g/m
Min. bending radius:	20.3 mm

Environmental

Temperature:	-55~+200°C

Construction



No.	Connertor parts	Diameter	Material
1	Inner Conductor		Silver-plated copper
2	Dielectric		PTFE
3	Foil		Copper, Silver plated
4	Braid		Copper, Silver plated
5	Jacket	4.14mm(.163inch)	FEP

Attenuation & Power Handling

Frequency (GHz)	0.5	1	5	10	18	26.5
Attenuation*1 (dB/m)	0.28	0.40	0.97	1.46	2.09	2.66
Average Power*2 (W)	527.5	373.0	166.8	118.0	87.9	72.5

[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) = $0.456300 * \sqrt{F\ (MHz)} + 0.000320 * F\ (MHz)$

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