

RG223 Coaxial Cable

P/N: AT1RG223-1S



RG223 is a high-performance, **50-ohm** coaxial cable specifically engineered for applications where low signal leakage and high frequency stability are required. It features a **solid silver-plated copper** inner conductor and a **double silver-plated copper braid**, which provides superior shielding and lower attenuation compared to single-shielded cables. Encased in a durable, non-contaminating **PVC jacket**, it is highly resistant to environmental degradation. Its excellent EMI rejection and precision impedance make it an industry favorite for **RF test leads, antenna feeds, telecommunications infrastructure**, and military-grade communication systems.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Silver plated copper	0.9
Dielectric	Solid PE	2.95
1 st Outer Conductor	Silver plated copper Braid	3.6 (93%)
2 nd Outer Conductor	Silver plated copper Braid	4.2 (88%)
Jacket	PVC	5.3

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-6	GHz
Impedance	50±2	Ω
Propagation Velocity	66	%
Capacitance	101	pF/m
Screening Effectiveness	80	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	25	Ω/km
Outer Conductor Resistance	7	Ω/km
Operating Voltage (at sea level)	≤ 1.9	kVrms
Peak Power Rating	2.5	KW



Technical Data Sheet

Mechanical Specifications

Parameter	Value	Unit
Weight	55	Kg/km
Single Bending Radius	≥ 52	mm
Repeated Bending Radius	≥ 50	mm

Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-25 ~ 85	°C
Installation Temperature	-10 ~ 60	°C

Attenuation

Frequency (GHz)	dB/100m
0.05	5.3
0.1	9.5
0.2	15.9
0.4	21.0
1.0	26.5
1.5	35.0
2.0	51.3
3.0	76.6

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