

RG214 Coaxial Cable

P/N: AT1RG214-1S



RG214 is a premium, **50-ohm** high-frequency coaxial cable engineered for applications requiring maximum shielding and low signal attenuation. It features a large **stranded Bare copper** center conductor and a **double silver-plated copper braid**, providing exceptional conductivity and superior protection against electromagnetic interference (EMI). Protected by a rugged, UV-resistant **non-contaminating PVC jacket**, it is built for long-term reliability in both indoor and harsh outdoor environments. Its robust, dual-shielded design makes it the preferred choice for **telecommunications, laboratory test leads, military radio systems**, and high-performance RF transmission lines where signal purity is paramount.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Bare copper	7/0.752
Dielectric	Solid PE	7.24
1 st Outer Conductor	Silver plated copper Braid	8.0 (80%)
2 nd Outer Conductor	Silver plated copper Braid	8.75 (90%)
Jacket	PVC	10.8

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	1.77	Ω/km
Outer Conductor Resistance	1.9	Ω/km
Operating Voltage (at sea level)	≤ 3.5	kVrms
Peak Power Rating	40	KW



Technical Data Sheet

Mechanical Specifications

Parameter	Value	Unit
Weight	186	Kg/km
Single Bending Radius	≥ 55	mm
Repeated Bending Radius	≥ 100	mm

Environmental Specifications

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

Attenuation

Frequency (GHz)	dB/100m
0.05	4.3
0.1	6.2
0.2	9.6
0.4	14.1
1.0	24.2
1.5	31.5
2.0	36.5
3.0	46.6