

## RG316 Coaxial Cable

P/N: AT1RG213-1S



RG213 is a heavy-duty, **50-ohm** high-power coaxial cable engineered for low-loss signal integrity over long distances. It features a large **stranded bare copper** center conductor and a high-density braid, providing superior shielding and high power handling capabilities. Encased in a rugged, UV-resistant **non-contaminating PVC jacket**, it is specifically designed to withstand harsh outdoor environments and aging. Its robust construction makes it the industry standard for **VHF/UHF radio communications**, amateur radio, marine antennas, and professional **RF transmission lines** where minimizing signal attenuation is critical.

### Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Bare Copper	2.29
Dielectric	Foamed Polyethylene	7.24
Outer Conductor	Copper Braid	7.98
Jacket	Black PVC	10.29

### Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-1	GHz
Impedance	50	$\Omega$
Propagation Velocity	66	%
Capacitance	101	pF/m
Screening Effectiveness	$\geq 60$	dB
Insulation Resistance	5000	M $\Omega$ -Km
Inner Conductor Resistance	5.5	$\Omega$ /km
Outer Conductor Resistance	4	$\Omega$ /km
Operating Voltage (at sea level)	$\leq 1.5$	kVrms
Peak Power Rating	15	KW



## Technical Data Sheet

### Mechanical Specifications

Parameter	Value	Unit
Weight	160	Kg/km
Single Bending Radius	≥ 40	mm
Repeated Bending Radius	≥ 85	mm

### Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-25 - 75	°C
Installation Temperature	-20 - 60	°C

### Attenuation

Frequency (GHz)	dB/100m
0.05	4.92
0.1	6.20
0.2	8.90
0.4	13.40
0.9	24.60
1.0	25.10