

RG8 Coaxial Cable

P/N: AT1RG8-1S



RG8 is a heavy-duty, **50-ohm** coaxial cable designed for high-power RF transmission and low signal loss over long distances. It features a thick, **stranded bare copper** inner conductor and a high-density bare copper braid, offering excellent power handling and durability. Encased in a rugged, weather-resistant **PVC jacket**, it is built to withstand outdoor environments and mechanical stress. Due to its large diameter and low attenuation, RG8 is a staple for **base station antennas, amateur radio (Ham) power amplifiers, and industrial RF equipment** where maintaining signal strength at high wattage is critical.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Copper clad Aluminium	2.77
Dielectric	Foamed PE	7.24
1 st Outer Conductor	APA Tape	7.42
2 nd Outer Conductor	TCCA Braid	8.12(90%)
Jacket	PE	10.29

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-6	GHz
Impedance	50	Ω
Propagation Velocity	85	%
Capacitance	78.4	pF/m
Screening Effectiveness	40	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	3.5	Ω/km
Outer Conductor Resistance	4	Ω/km
Operating Voltage (at sea level)	≤ 3.5	kVrms
Peak Power Rating	15	KW



Technical Data Sheet

Mechanical Specifications

Parameter	Value	Unit
Weight	150	Kg/km
Single Bending Radius	≥ 50	mm
Repeated Bending Radius	≥ 100	mm

Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-35 ~ 70	°C
Installation Temperature	-5 ~ 50	°C

Attenuation

Frequency (GHz)	dB/100m
0.05	2.9
0.15	5.0
0.45	8.9
0.9	12.8
1.5	16.8
1.8	18.6
2.0	19.60
2.5	22.2
5.8	35.5

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