

### RG188 Coaxial Cable

P/N: AT1RG188-1W



RG188 is a high-performance, **50-ohm** miniature coaxial cable specifically designed for applications requiring high-temperature stability and superior mechanical strength. It features a stranded **silver-plated copper-clad steel** inner conductor and a silver-plated copper braid, ensuring excellent conductivity and high-frequency performance. Its high-grade **PTFE** dielectric and rugged **white PTFE jacket** provide outstanding resistance to chemicals, moisture, and extreme temperatures ranging from **-55°C to +200°C**. Highly flexible and durable, RG188 is widely utilized in military communications, aerospace instrumentation, medical electronics, and RF test leads where a compact footprint and reliability in harsh environments are essential.

#### Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	silver plated copper clad steel	0.51
Dielectric	PTFE	1.52
Outer Conductor	Silver plated copper Braid	2.0 (94%)
Jacket	PTFE	2.54

#### Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-3	GHz
Impedance	50±2	Ω
Propagation Velocity	69	%
Capacitance	97	pF/m
Screening Effectiveness	40	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	280	Ω/km
Outer Conductor Resistance	20	Ω/km
Operating Voltage (at sea level)	≤ 1.2	kVrms
Peak Power Rating	2.0	KW



## Technical Data Sheet

### Mechanical Specifications

Parameter	Value	Unit
Weight	15	Kg/km
Single Bending Radius	$\geq 15$	mm
Repeated Bending Radius	$\geq 30$	mm

### Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-55 ~ 200	°C
Installation Temperature	-20 ~ 60	°C

### Attenuation

Frequency (GHz)	dB/100m
0.1	24.1
0.4	53.3
1.0	86.5
2.0	135.8
3.0	171.3