

RG58 CU Coaxial Cable

P/N: AT1RG58-2S



RG58 Tinned Copper Cable is a versatile, **50-ohm** coaxial cable widely used for low-to-medium frequency signal transmission. It features a **stranded tinned copper** inner conductor and a **tinned copper braid**, which provides excellent flexibility and superior solderability compared to bare copper alternatives. Encased in a durable **PVC jacket**, it offers good protection against environmental factors while remaining easy to route in tight spaces. Its balanced electrical properties make it a standard choice for **BNC assemblies, two-way radio antennas, laboratory instrumentation**, and amateur radio setups where ease of termination and reliable performance are required.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Tinned copper	19/0.9
Dielectric	Solid PE	2.95
Outer Conductor	Tinned copper Braid	112*0.12 (94%)
Jacket	PVC	4.95

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-1	GHz
Impedance	50±2	Ω
Propagation Velocity	66	%
Capacitance	100	pF/m
Screening Effectiveness	40	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	35	Ω/km
Outer Conductor Resistance	14	Ω/km
Operating Voltage (at sea level)	≤ 1.5	kVrms
Peak Power Rating	2.0	KW



Technical Data Sheet

Mechanical Specifications

Parameter	Value	Unit
Weight	35	Kg/km
Single Bending Radius	≥ 25	mm
Repeated Bending Radius	≥ 50	mm

Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-25 ~ 80	°C
Installation Temperature	-10 ~ 55	°C

Attenuation

Frequency (GHz)	dB/100m
0.05	10.2
0.1	21.3
0.2	31.0
0.5	36.5
1.0	76.0