

RG400 Coaxial Cable

P/N: AT1RG400-1B



RG400 is a premium, **50-ohm** high-frequency coaxial cable engineered for maximum shielding and exceptional thermal stability. It features a **stranded silver-plated copper** center conductor and a **double silver-plated copper braid**, providing superior conductivity and excellent protection against electromagnetic interference (EMI). Its high-performance **PTFE** dielectric and durable **FEP** jacket allow it to operate reliably in extreme temperatures ranging from **-55°C to +200°C**. Because of its high power handling and low-loss characteristics, RG400 is the industry standard for **avionics, military communications, medical electronics**, and high-quality RF test cables where flexibility and durability are paramount.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Silver plated copper	19/0.20
Dielectric	PTFE	2.95
1 st Outer Conductor	Silver plated copper Braid	3.6 (97%)
2 nd Outer Conductor	Silver plated copper Braid	4.2 (94%)
Jacket	FEP	4.95

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-12	GHz
Impedance	50±2	Ω
Propagation Velocity	70	%
Capacitance	105	pF/m
Screening Effectiveness	80	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	28	Ω/km
Outer Conductor Resistance	7.5	Ω/km
Operating Voltage (at sea level)	≤ 1.9	kVrms
Peak Power Rating	2.5	KW



Technical Data Sheet

Mechanical Specifications

Parameter	Value	Unit
Weight	64	Kg/km
Single Bending Radius	≥ 25	mm
Repeated Bending Radius	≥ 50	mm

Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-40 ~ 200	°C
Installation Temperature	-25 ~ 85	°C

Attenuation

Frequency (GHz)	dB/100m
0.05	9.0
0.1	13.4
0.2	23.8
0.5	32.2
1.0	48.5
2.0	73.6
3.0	95.1
5.0	133.0

Ground floor, Plot No -20, (KH No-160/1),street No-3/2, Samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
Contact: +91 9643592149 Email: info@aetherx.in , Website: www.aetherx.in