

### RG11 Coaxial Cable

P/N: AT1RG11-1S



RG11 is a thick, **75-ohm** high-performance coaxial cable engineered for long-distance signal transmission with minimal loss. It features a heavy-gauge **solid copper-clad steel** center conductor and advanced multi-layer shielding (typically foil and braid), which provides the highest bandwidth and lowest attenuation in the RG-series for residential and commercial applications. Protected by a rugged **PVC or PE jacket**, it is built to handle high-frequency digital signals over distances that would cause standard cables to fail. Its robust build makes it the industry standard for **trunk lines, long cable TV drops, satellite headends, and backbone infrastructure** where signal integrity over several hundred feet is a requirement.

#### Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Copper clad steel	1.63
Dielectric	PE	7.11
1 <sup>st</sup> Outer Conductor	Aluminium polypropylene tape	7.29
2 <sup>nd</sup> Outer Conductor	Aluminium Braid	(60%)
Jacket	PVC	10.03

#### Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-3	GHz
Impedance	75±3	Ω
Propagation Velocity	85	%
Capacitance	54	pF/m
Screening Effectiveness	85	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	40	Ω/km
Outer Conductor Resistance	15	Ω/km
Operating Voltage (at sea level)	≤ 4.0	kVrms
Peak Power Rating	10	KW



## Technical Data Sheet

### Mechanical Specifications

Parameter	Value	Unit
Weight	90	Kg/km
Single Bending Radius	≥ 65	mm
Repeated Bending Radius	≥ 130	mm

### Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-35 ~ 80	°C
Installation Temperature	-20 ~ 50	°C

### Attenuation

Frequency (GHz)	dB/100m
0.05	3.1
0.25	6.72
0.4	8.53
0.6	10.43
1.0	14.27
1.8	19.69
2.4	23.32
2.8	25.53
3.0	26.60

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](mailto:info@aetherx.in) , Website: [www.aetherx.in](http://www.aetherx.in)