

1.37 Micro Coaxial Cable

P/N: AT1MC137-1G



The 1.37 mm cable is an **ultra-miniature 50-ohm** coaxial cable engineered for precision RF connectivity in compact hardware. It is slightly thicker than the 1.13 mm variant, which allows for a larger center conductor and lower attenuation, making it ideal for slightly longer internal runs where signal strength is critical. It is a standard choice for **GPS modules, high-gain internal Wi-Fi antennas, and mini-PCIe wireless cards**. Like other micro-coax cables, it is primarily terminated with **U.FL/IPEX** connectors and features an **FEP jacket** for superior thermal stability in high-density electronic assemblies.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Silver Plated Copper	7/0.102(0.3)
Dielectric	Teflon FEP	0.86±0.05
Outer Conductor	Tinned Copper Braid	16*5/0.05(93%)
Jacket	FEP	1.37±0.05

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-8	GHz
Impedance	50±3	Ω
Propagation Velocity	69	%
Capacitance	95.8	pF/m
Screening Effectiveness	≥100	dB
Insulation Resistance	3000	MΩ-Km
Inner Conductor Resistance	335	Ω/km
Outer Conductor Resistance	65	Ω/km
Operating Voltage (at sea level)	≤ 60	V AC
Peak Power Rating	0.3	KW



Technical Data Sheet

Mechanical Specifications		
Parameter	Value	Unit
Weight	3	Kg/km
Single Bending Radius	≥ 5	mm
Repeated Bending Radius	≥ 10	mm

Environmental Specifications		
Parameter	Value	Unit
Operation Temperature	-55 ~ 200	°C
Installation Temperature	-40 - 80	°C

Attenuation	
Frequency (GHz)	dB/m
0.1	0.47
0.4	0.93
1.0	1.48
2.0	2.15
2.4	2.46
3.0	2.65
4.0	3.56
5.0	4.10
5.35	4.3
6.0	4.75
7.2	5.55
8.0	6.10

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