

1.13 Micro Coaxial Cable

P/N: AT1MC113-1S



The 1.13 mm cable is an **ultra-miniature 50-ohm** coaxial cable specifically designed for space-constrained electronics. It features a stranded silver-plated copper center conductor and a high-density braid, providing a stable signal path despite its tiny footprint. Most commonly paired with **U.FL, MHF, or IPEX** connectors, this cable is the industry standard for **internal Wi-Fi and Bluetooth antennas in laptops, tablets, smart phones, and IoT modules**. Its **FEP jacket** ensures high heat resistance and chemical stability, making it ideal for the high-density thermal environments found inside modern portable devices.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Silver plated Copper	7*0.08/0.24
Dielectric	Teflon FEP	0.68
Outer Conductor	Tinned Copper Braid	16*4/0.05(93%)
Jacket	FEP	1.13±0.05

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-6	GHz
Impedance	50±2	Ω
Propagation Velocity	69	%
Capacitance	96±3	pF/m
Screening Effectiveness	100	dB
Insulation Resistance	3000	MΩ-Km
Inner Conductor Resistance	482	Ω/km
Outer Conductor Resistance	95	Ω/km
Operating Voltage (at sea level)	≤ 60	V AC
Peak Power Rating	0.2	KW



Technical Data Sheet

Mechanical Specifications

Parameter	Value	Unit
Weight	2.5	Kg/km
Single Bending Radius	≥ 4	mm
Repeated Bending Radius	≥ 8	mm

Environmental Specifications

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

Attenuation

Frequency (GHz)	dB/m
0.1	0.42
0.4	0.58
1.0	2.2
2.0	3.4
3.0	4.2
4.0	4.5
5.0	5.2
6.0	5.6