

## 1.32 Micro Coaxial Cable

P/N: AT1MC132-1G



The 1.32 mm cable is a **50-ohm ultra-thin coaxial cable** designed for internal RF wiring where space is at a premium but slightly better mechanical strength than 1.13 mm is desired. It features a stranded silver-plated copper center conductor and a high-density braid, providing a stable signal path for high-frequency applications up to 6 GHz. It is most frequently terminated with **U.FL, IPEX, or AMC** connectors and is a standard component in **miniature Wi-Fi antennas, drone telemetry systems, and compact medical sensors**. The **FEP jacket** provides excellent chemical resistance and thermal stability, allowing the cable to remain flexible and electrically consistent across a wide temperature range.

### Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Silver plated Copper	7*0.085/0.26
Dielectric	FEP	0.70±0.05
Outer Conductor	Silver plated Copper Braid	16*4/0.05(89%)
Jacket	FEP	1.32±0.05

### Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC-8	GHz
Impedance	50±3	Ω
Propagation Velocity	69	%
Capacitance	96±3	pF/m
Screening Effectiveness	30	dB
Insulation Resistance	3000	MΩ-Km
Inner Conductor Resistance	497	Ω/km
Outer Conductor Resistance	75	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	3.0	Kg/km
Single Bending Radius	≥ 6	mm
Repeated Bending Radius	≥ 10	mm

### Environmental Specifications

Parameter	Value	Unit
Operation Temperature	-40 ~ 200	°C
Installation Temperature	-30 ~ 80	°C

### Attenuation

Frequency (GHz)	dB/m
1.0	2.01
2.0	2.90
2.5	3.28
5.0	5.05
6.0	5.40
7.5	6.73
8.0	7.31