

Antenna Cable

YM0003AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2020-06-23	Kenny YIN	Creation of the document
1.0	2020-06-23	Kenny YIN	Initial
1.1	2021-01-18	Kenny YIN	Updated the antenna cable picture in Chapter 2.
1.2	2021-06-16	Kenny YIN	Updated the antenna cable drawing in Chapter 5.

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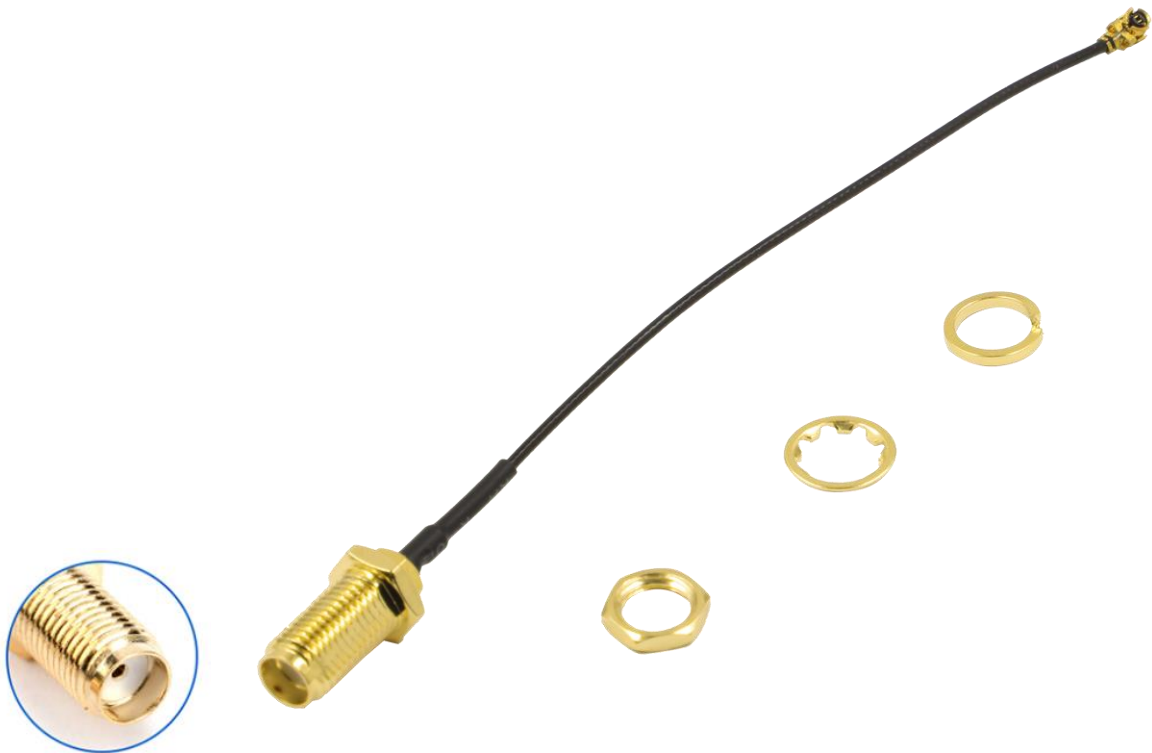
1 Product Description

The antenna cable is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

2 Product Features

- Low loss



3 Product Specifications

3.1. Cable Construction

Item	Material	Diameter (mm)
Conductor	Silver plated copper wire	0.24
Insulator	FEP	0.7
Shield	Tinned copper wire	0.92
Jacket	PVC	1.13

3.2. Electrical Properties and Mechanical Properties

Item	Value	Unit
Impedance	50 \pm 2	Ω
Operating Frequency	0–6000	MHz
Return Loss	≥ 20	dB
Insertion Loss	500 MHz: -0.35	dB
	1000 MHz: -0.59	
	1500 MHz: -0.7	
	2000 MHz: -0.82	
	2500 MHz: -0.95	
	3000 MHz: -1.07	
	3500 MHz: -1.18	
	4000 MHz: -1.3	
	4500 MHz: -1.41	
	5000 MHz: -1.53	
	5500 MHz: -1.65	
	6000 MHz: -1.79	
Screening Effectiveness	500 MHz – 1 GHz \geq -50	dB
	1–3 GHz \geq -60	
	3–6 GHz \geq -65	

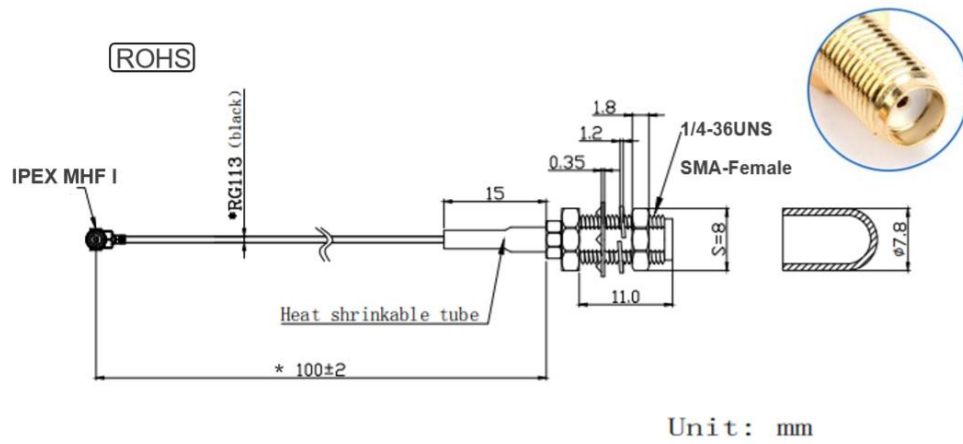
4 Overall Performance

4.1. Test Environment

- CABLE/HARNESS TESTER: WB-500 100 kHz – 6.0 GHz



5 Product Size



Mouser Electronics

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