

# Antenna Cable

# **YSAN001AA** Datasheet

**Antenna Services**

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# About the Document

## Revision History

Version	Date	Author	Note
-	2021-05-11	Kenny YIN /Aria CHU	Creation of the document
1.0	2021-05-11	Kenny YIN /Aria CHU	First official release

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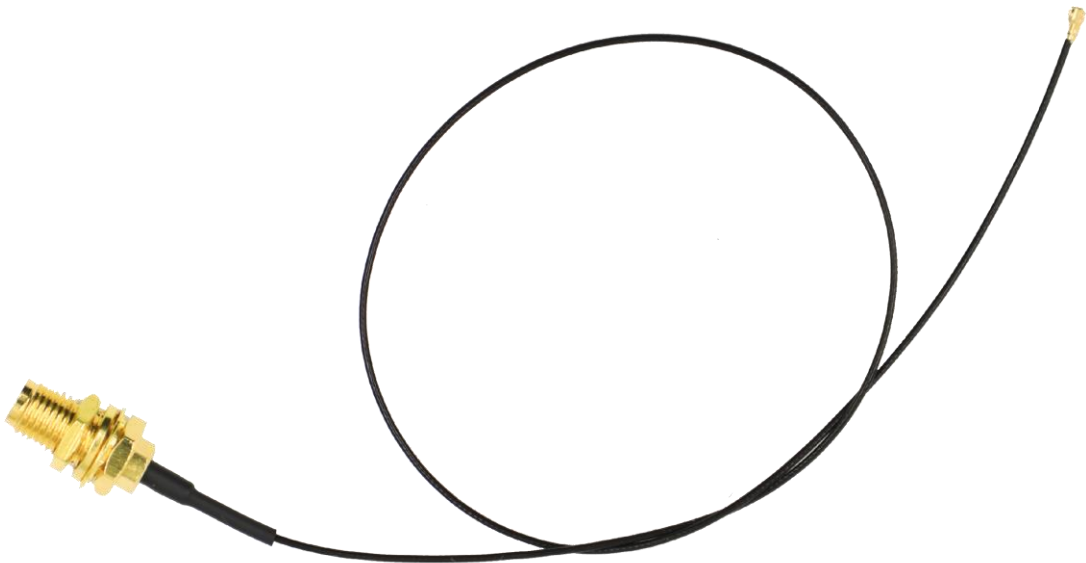
## 1 Product Description

The antenna 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	0.70
Shield	Tinned copper wire	0.92
Jacket	PVC	1.13

#### 3.2. Electrical Properties and Mechanical Properties

Item	Value
Impedance	50 $\pm$ 2 $\Omega$
Operating Frequency	0–6000 MHz
Return Loss	$\geq$ 20 dB
Insertion loss	698 MHz: -0.59 dB
	960 MHz: -0.71 dB
	1710 MHz: -1.11 dB
	2690 MHz: -1.04 dB
	3300 MHz: -1.57 dB
	3800 MHz: -1.96 dB
	4400 MHz: -1.88 dB
	5000 MHz: -1.94 dB
Screening Effectiveness	5800 MHz: -3.21 dB
	500 MHz – 1 GHz: $\geq$ -50 dB
	1–3 GHz: $\geq$ -60 dB
	3–6 GHz: $\geq$ -65 dB

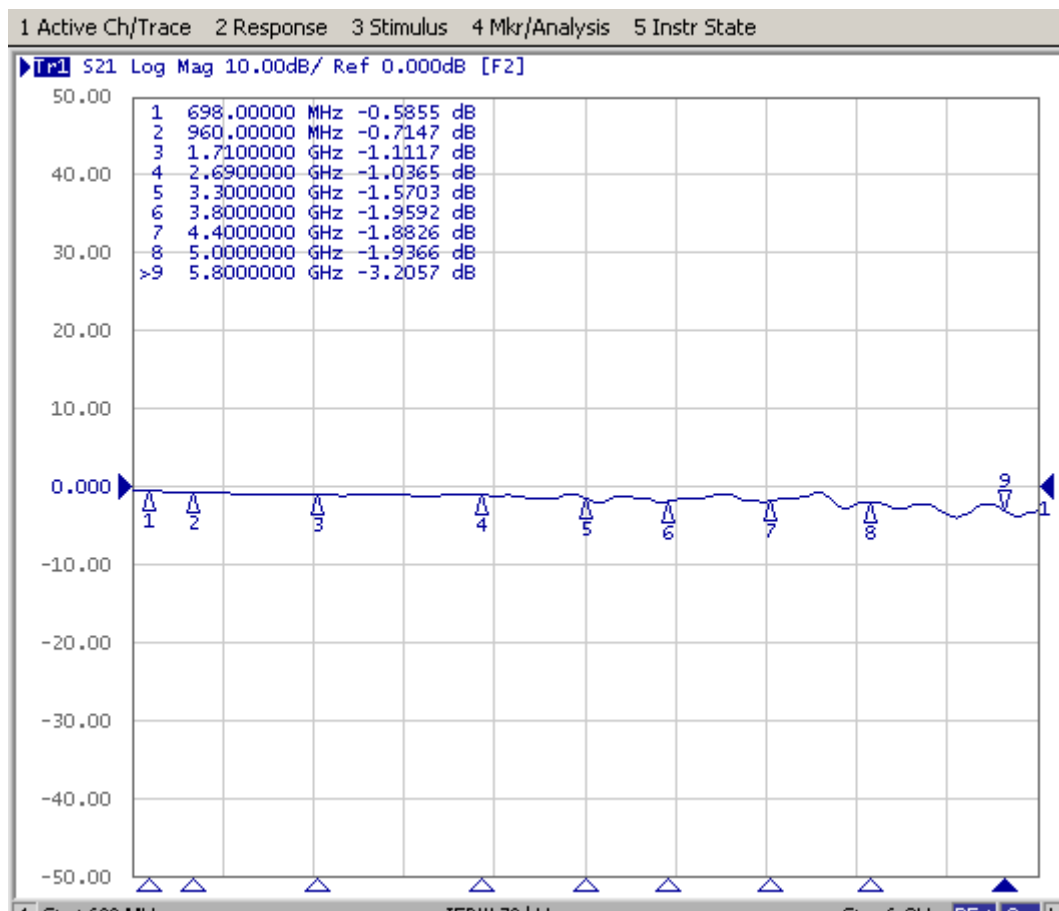
## 4 Overall Performance

### 4.1. Test Environment

- Cable/Harness Tester: WB-500, 100 kHz – 6.0 GHz

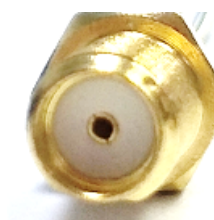
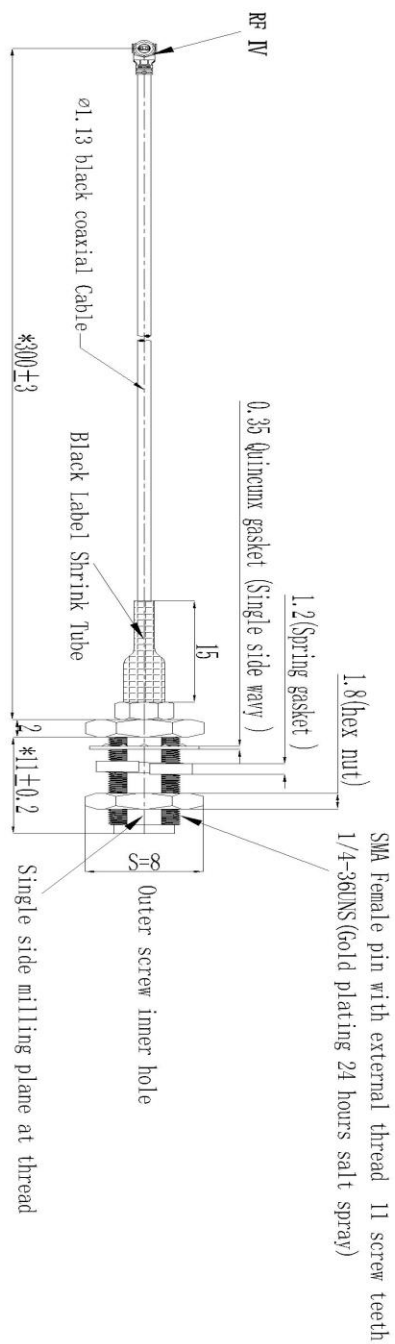


## 4.2. RL



Frequency (MHz)	698	960	1710	2690	3300	3800	4400	5000	5800
RL	-0.59	-0.71	-1.11	-1.04	-1.57	-1.96	-1.88	-1.94	-3.21

## 5 Product Size



Unit:mm

# Mouser Electronics

Authorized Distributor

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