

Antenna Cable

YBY00A0JA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2021-09-02	Mary LI/ Jason LONG	Creation of the document
1.0	2021-09-02	Mary LI/ Jason LONG	First official release
1.1	2021-12-03	Mary LI/ Jason LONG	Updated the product description in Chapter 1.

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1 Product Description

To meet the requirements of devices for RF connection among antennas, modules, and motherboards, as well as long-distance wiring, Quectel provides customers with a wide range of RF cable products. These cables use high-quality materials and connectors to reduce the loss to the greatest extent, ensuring overall RF performance. Quectel also provides customized services according to customers' particular requirements for cable material, cable length, and connector type.

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	Tinned silver 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
Impedance	50 \pm 2 Ω
Operating Frequency	0–6000 MHz
Return Loss	\leq - 20 dB
Insertion loss	698 MHz: -0.55 dB
	960 MHz: -0.62 dB
	1710 MHz: -0.95 dB
	2300 MHz: -1.13 dB
	2700 MHz: -1.2 dB
	3300 MHz: -1.58 dB
	4200 MHz: -1.52 dB
	5150 MHz: -1.48 dB
5850 MHz: -1.21 dB	
Screening Effectiveness	\geq 38 (0–6 GHz)

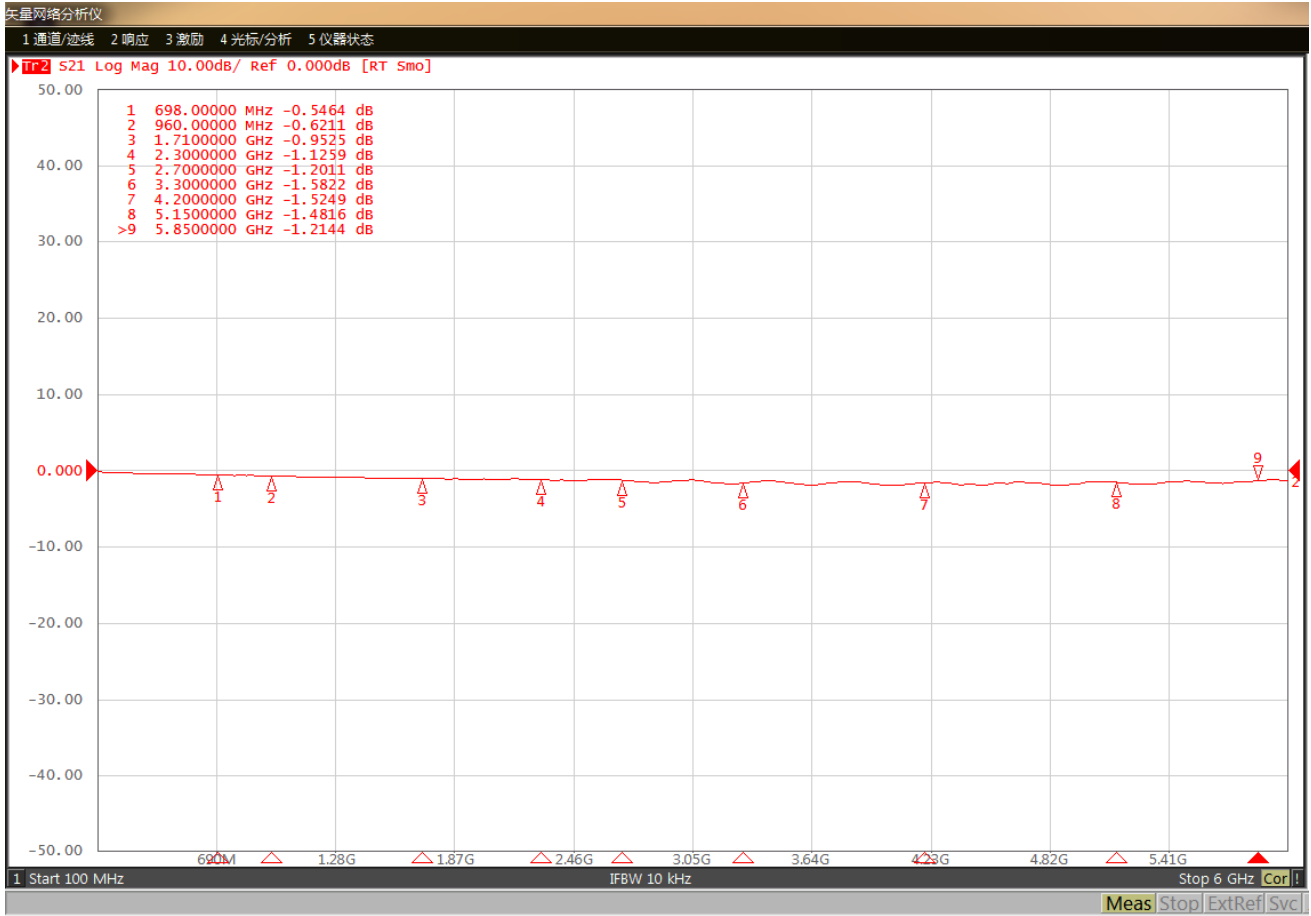
4 Overall Performance

4.1. Test Environment

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



4.2. RL



Frequency (MHz)	698	960	1710	2300	2700	3300	4200	5150	5850
RL	-0.55	-0.62	-0.95	-1.13	-1.2	-1.58	-1.52	-1.48	-1.21

5 Product Size

