

Antenna Cable

YM0005AA Datasheet

Antenna Services

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Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

Tel: +86 21 5108 6236

Email: info@quectel.com

Or our local offices. For more information, please visit:

<http://www.quectel.com/support/sales.htm>.

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About the Document

Revision History

Version	Date	Author	Note
-	2020-05-27	Kenny YIN	Creation of the document
1.0	2020-05-27	Kenny YIN	First official release
1.1	2021-01-18	Kenny YIN	Updated the antenna image in Chapter 2.
1.2	2021-12-03	Kenny YIN	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

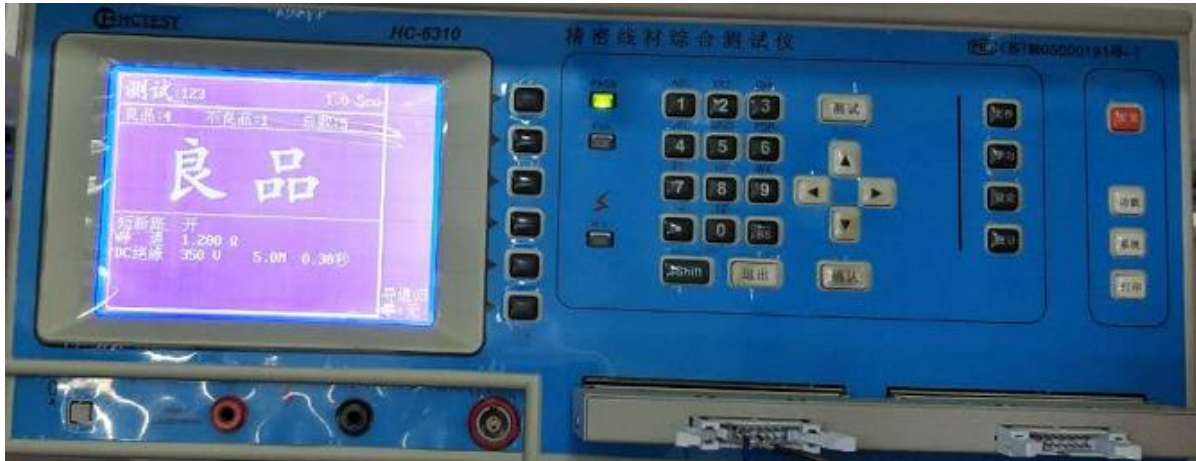
Item	Material	Diameter (mm)
Conductor	Silver plated copper wire	0.24
Insulator	FEP	0.7
Shield	Tinned copper wire	0.92
Jacket	PVC	1.13

3.2. Electrical Properties and Mechanical Properties

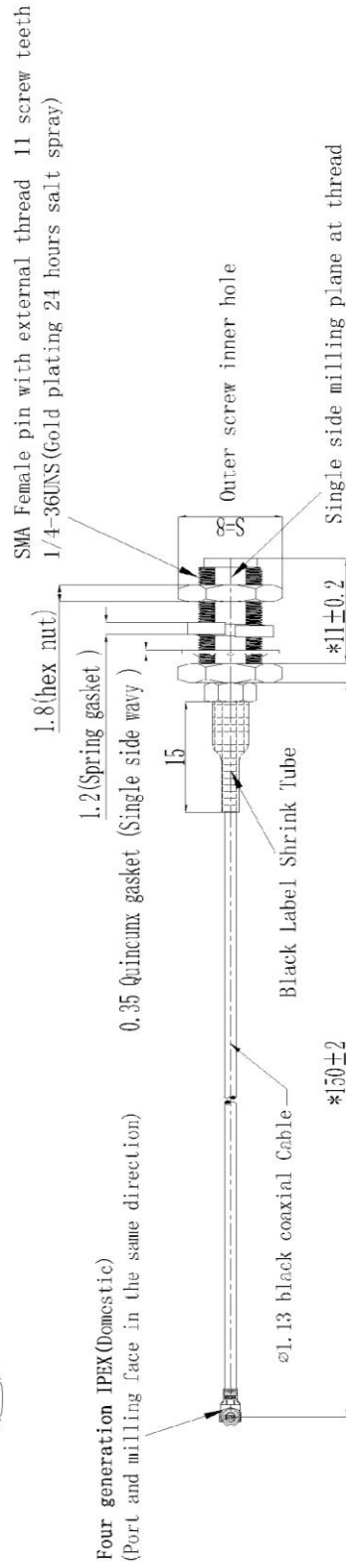
Item	Value	Unit
Impedance	50 \pm 2	Ω
Operating Freq.	0 – 6000	MHz
Return Loss	\geq 20	dB
Insertion loss	500 MHz: -0.34	dB
	1000 MHz: -0.38	
	1500 MHz: -0.51	
	2000 MHz: -0.7	
	2500 MHz: -0.78	
	3000 MHz: -0.82	
	3500 MHz: -0.89	
	4000 MHz: -0.98	
	4500 MHz: -1.1	
	5000 MHz: -1.78	
5500 MHz: -1.85		
6000 MHz: -1.87		
Screening Effectiveness	500 MHz – 1 GHz \geq -47	dB
	1–3 GHz \geq -54	
	3–6 GHz \geq -61	

4 Overall Performance

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



5 Product Size



Unit : mm