

Antenna Cable YM0015AA 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@guectel.com

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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-10-19	Kenny YIN	Initial
1.1	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 Feature**

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

4 Overall Performance

4.1. Test Environment

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

		Raises	
1 昆山万至宝电子有限公司	WB-500	我材综合测试机	CABLE/HARNESS TESTER
单边模式 文件:A READY 是品: 53279 不見: 6613 总数: 60292 良日日 PA 短断腦測试 3800 0.09000 PA 互通純漆剂试 3800 104302 S		PASS FAL FAL FAL FAL FAL FAL FAL FAL	
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5 Product Size

