# Electronic connection wire specificatio

Model: 2.4G antenna (white)\_

client:\_\_\_\_\_

Date: 2023/08/03\_\_\_\_\_

### 1 Internal material of the wire

main material	range of application	remarks
Transparent PVC compound	The wire is used outside	environmental protection
copper wire	Copper conductor wire diameter 0. 1	environmental protection
Environmental tin	Peel and tin the wire	environmental protection

### 2 Product performance

Specifications and dimensions

name of a part	scope of application	wire length	Wire color	surface
2.4G antenna (white)	Wires on a circuit board	35 MM	white	No defects such as damage, scratches and oil stains on the surface

### **3** Wire performance

	order number	project	standard
1		withstand voltage	60V
2		Tough current	1500 MA
3		contact resistance	30mΩ MAX
4		insulation resistance	1000mΩ MIX
5		pulling	0.9 kg
6		temperature resistance	80 degrees

### 4. Reliability testing

order	project	standard	test method
numbe			
r			
1	Does not contain 16P	Sixteen ingredients are	Third party
	and ROHS	less than 0.1%	authoritative testing
			agency

### 5. Shelf life

6 months after leaving the factory

### 6. Precautions for use

Note: The temperature should not exceed  $80\,^\circ\!\mathrm{C}$  and the current should not be higher than 1.5A.



Note: The 2.4G antenna specification is 17-core bare copper wire with an outer diameter of 1.6 MM, white, 35 MM long, and 3 MM of the wire head is stripped and soldered. It complies with environmental standards: EU EN 71 (19E), ROHS, PAHS,  $6P^{\sim}16P$ , CPSIA, HR 4040 in Europe and America.

### Appendix 8

# **Product Specification**

A. Electrical Characteristics Frequency 2400MHz ~2500MHz VSWR <3.0 Efficiency >30% Impedance 50 Ohm Polarization Line Gain 0.17DBi B. Material & Mechanical Characte ristics Material of Radiator Cu Cable Type 1.0 19P White Connector Type: NO Dimension C. Environmental Operation Temperature - 30 °C ~ + 80°C Storage Temperature - 30 °C ~ + 85°C

## **Test Equipment & Conditions**

1. Network Analyzers: Agilent 8753D 5071B

2. Communications T estSet: Agilent E5515C

3. 3D Chamber Test System

Figure 7

# Effiency & Gain



Effiency & Gain

2.40	-2.17
2.440	0.12
2.50	0.17

# **Radiation Pattern:**





