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Superbat 8541741659

Superbat RG58 Coaxial Cable 50ft User Manual

Model: 8541741659

1. Introduction

This manual provides essential information for the proper use and care of your Superbat RG58 Coaxial Cable. Please read these instructions thoroughly before installation and operation to ensure optimal performance and longevity of the product.

2. Product Overview

The Superbat RG58 Coaxial Cable is a low-loss RF coax cable designed for various applications including WiFi, router, radio antenna extension, CB radio, and ham radio setups. It features a 50 Ohm impedance and is suitable for both indoor and outdoor use.

Key Features:

- **Type:** Low-loss RF Coax RG58 A/U Cable.
- **Length:** 50 feet.
- **Material Composition:** Inner conductor made of tinned copper, PE insulation, tinned copper braid outer conductor, and a PVC jacket for durability in various environments.
- **Diameter:** Inner conductor: 0.342mm (19*0.18mm), Insulation: 2.95mm, Outer conductor: 3.50mm, Jacket: 4.95mm.
- **Electrical Properties:** Impedance: 50 Ohm, Max Frequency: 1000MHz, Capacitance Conductor to Shield: 101.05 pF/m.



Figure 2.1: The Superbat RG58 Coaxial Cable, 50 feet in length, coiled for storage and transport.



Figure 2.2: Exploded view of the RG58 coaxial cable showing its internal components: inner conductor, insulation, outer conductor, and jacket.

RG 58



PHYSICAL PROPERTIES

	Material	Diameter(mm)
1 . Inner conductor	Tinned copper	19*0.18
2 . Insulation	PE	2.95
3 . Outer conductor	Tinned Copper Braid	3.50
4 . Jacket	PVC	4.95

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	101.05
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	66
Min. Bend Radius(Install)(mm)	25
Voltage Rating(VMS)	1400
Max. Operating Frequency(MHz)	1000
Operating Temperature Rating(℃)	-25 ~ +70

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≈dB/m)
100	0.151
400	0.308
1000	0.502

Figure 2.3: Detailed table outlining the physical and electrical properties of the RG58 coaxial cable, including material, diameter, impedance, and frequency ratings.



Figure 2.4: A digital caliper measuring the outer diameter of the RG58 coaxial cable, showing a measurement of 4.98mm.



Figure 2.5: An illustration of various connector types (SMA, TNC, BNC, Fakra, UHF, N) that can be used with RG58 coaxial cable.

3. Specifications

Property	Value
Brand	Superbat
Cable Type	RG58 Coaxial Cable
Length	50 feet
Impedance	50 Ohm
Max Frequency	1000 MHz
Inner Conductor Material	Tinned Copper

Property	Value
Insulation Material	PE (Polyethylene)
Outer Conductor Material	Tinned Copper Braid
Jacket Material	PVC (Polyvinyl Chloride)
Outer Diameter	4.95 mm
Compatible Devices	Any type of coaxial connector, equipment (e.g., 4G LTE antenna, Wireless Router Gateway Modem MiFi, Mobile Hotspot antenna cable)
Usage Environment	Indoor, Outdoor
Model Number	8541741659
UPC	790404681867

4. Setup

This RG58 coaxial cable is typically used with various connectors to form custom jumper cables or extension cables. The process of attaching connectors generally involves stripping the cable, inserting the conductor and shield into the connector, and then crimping or soldering. Always refer to the specific instructions provided with your chosen connectors for detailed assembly steps.

General Connector Mounting Method:

1. **Prepare the cable:** Carefully strip the outer jacket, outer conductor (braid), and insulation to expose the inner conductor according to the connector's specifications.
2. **Insert components:** Insert the inner conductor into the connector's pin and slide the crimp sleeve over the outer conductor.
3. **Attach the connector:** Securely insert the prepared cable end into the connector body.
4. **Fix with crimping tool:** Use a suitable crimping plier to crimp the sleeve onto the cable, ensuring a secure electrical and mechanical connection.



Figure 4.1: Visual guide demonstrating the four general steps for attaching a coaxial connector to an RG58 cable: preparing the cable, inserting the pin and sleeve, inserting the connector, and fixing with a crimping tool.

5. Operating Instructions

The Superbat RG58 Coaxial Cable is designed for signal transmission in various radio frequency (RF) applications. Once properly terminated with appropriate connectors, connect the cable between your devices. Ensure all connections are tight and secure to prevent signal loss or interference.

Typical Applications:

- Connecting WiFi antennas to routers or access points.
- Extending radio antennas for CB or Ham radio systems.
- Interconnecting components in test equipment setups.
- General RF signal transmission where 50 Ohm impedance is required.

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Video 5.1: An overview of Superbat coaxial cables, including the RG58, highlighting their various types and applications. This video demonstrates the physical characteristics and potential uses of the cable.

6. Maintenance

To ensure the longevity and optimal performance of your RG58 coaxial cable, follow these maintenance guidelines:

- **Inspection:** Regularly inspect the cable for any signs of physical damage, such as cuts, kinks, or severe bends. Check connectors for corrosion or looseness.
- **Cleaning:** Keep the cable and connectors clean. Use a dry, soft cloth to wipe away dust and dirt. For connectors, ensure they are free of debris before making connections.

- **Storage:** When not in use, coil the cable loosely to prevent kinks and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Protection:** For outdoor installations, consider using weather-sealing tape or boots around connectors to protect them from moisture and environmental elements.

7. Troubleshooting

If you experience issues with your coaxial cable setup, consider the following troubleshooting steps:

- **No Signal or Weak Signal:**
  - Check all cable connections to ensure they are tight and properly seated.
  - Inspect the cable for visible damage (cuts, severe bends).
  - Verify that the correct cable type (50 Ohm RG58) is being used for your application.
  - Test with a different cable if available to rule out cable failure.
- **Interference:**
  - Ensure the cable is not running parallel to power lines or other sources of electromagnetic interference.
  - Check for proper grounding of your equipment.
  - Verify that connectors are properly installed and shielded.
- **Connector Issues:**
  - If self-installed, re-examine the connector installation for proper stripping, crimping, or soldering.
  - Look for bent or broken pins within the connectors.

8. Warranty and Support

Superbat products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the Superbat official website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
Manufacturer: Wlaniot
Brand: Superbat
Website: Visit the Superbat Store on Amazon

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