

BINGFU BFN00458

BINGFU Ham Radio Antenna Adapter Instruction Manual

Model: BFN00458

INTRODUCTION

This manual provides essential information for the proper use and installation of your BINGFU SMA Female to UHF SO239 Female RG58 Coaxial Jumper Cable. This adapter cable is designed to connect handheld two-way radios with an SMA male antenna port to external antennas with a UHF SO239 female connector, facilitating enhanced signal transmission and reception.

PRODUCT OVERVIEW

The BINGFU antenna adapter cable features an SMA Female connector on one end and a UHF SO239 Female connector on the other, interconnected by a durable RG58 coaxial cable. This design allows for flexible and secure connections between various radio equipment and antennas.



Image 1: Overview of the BINGFU SMA Female to UHF SO239 Female RG58 Coaxial Jumper Cable.

Key Components:

- **SMA Female Connector:** Designed to connect to devices with an SMA Male antenna port, commonly found on handheld radios.
- **UHF SO239 Female Connector:** Designed to connect to devices with a PL259 Male connector, typically found on external antennas or antenna feedlines.
- **RG58 Coaxial Cable:** A 50 Ohm impedance cable providing a robust and flexible connection.



Image 2: Detailed view of the SMA Female and UHF SO239 Female connectors.

SPECIFICATIONS

Feature	Detail
Model Number	BFN00458
Connector 1	SMA Female (50 Ohm)
Connector 2	UHF SO239 Female (50 Ohm)
Cable Type	RG58 Coaxial Cable
Cable Length	30 cm (12 inches / 1 foot)
Impedance	50 Ohm
Product Dimensions	6.69 x 0.51 x 4.72 inches
Weight	Approximately 1.45 ounces (50g)

SETUP AND INSTALLATION

1. **Identify Connectors:** Locate the SMA Male antenna port on your handheld radio and the PL259 Male connector on your external antenna or antenna feedline.
2. **Connect to Radio:** Carefully screw the SMA Female end of the BINGFU adapter cable onto the SMA Male antenna port of your handheld radio. Ensure a snug fit, but do not overtighten.
3. **Connect to Antenna/Feedline:** Screw the UHF SO239 Female end of the BINGFU adapter cable onto the PL259 Male connector of your external antenna or antenna feedline. Ensure a secure connection.
4. **Positioning:** Position the cable to avoid sharp bends or kinks, which can damage the coaxial cable and affect performance. The flexibility of the RG58 cable helps reduce strain on the radio's connector.



Image 3: The SMA Female connector, designed for handheld radio connection.



Image 4: The UHF SO239 Female connector, designed for external antenna connection.

OPERATION

Once properly installed, the BINGFU adapter cable facilitates the connection between your handheld radio and a larger, more efficient external antenna. This allows for improved signal range and clarity compared to using the radio's stock antenna. Ensure your radio and antenna are correctly tuned for the frequencies you intend to use.

COMPATIBILITY

This adapter cable is compatible with a wide range of handheld two-way radios and ham radios that feature an SMA Male antenna connector, and external antennas with a PL259 Male connector. Below is a list of commonly compatible radio models:

Compatible Ham Radio Models:

- **BaoFeng:** UV-5R, UV5RA, UV-5RE, BF-F8HP, BF-F8, UV-82, UV-82HP, BF-888S, UV-5X3, UV-5RM, UV-9R, BF-666S, BF-777S, BF-320, BF-480, BF-490, BF-V6, BF-V8, BF-F9, BF-F8Plus, BF-388A, GT-3, UV-5RB, UV-5RC, UV-5RD, UV-5REPlus, UV-5RG, UV-5RQ, UV-5RT, UV-5S, UV-5U,

UV-B5, UV-B6, etc.

- **Wouxun:** KG-659, KG-669, KG-679, KG-689, KG-699E, KG-801, KG-816, KG-818, KG-819, KG-833, KG-889, KG-UVD1P, etc.
- **Kenwood:** TK-208, TK-240, TK-250, TK-255, TK-260, TK-260G, TK-270, TK-270G, TK-272G, TK-278, TK-278G, TK-340, TK-349, TK-350, TK-353, TK-360, TK-360G, TK-370, TK-370G, TK-390, TK-380, TK-373G, TK-372G, TK-385, TK-430, TK-431, TK-715, TK-2100, TK-2102, TK-2107, TK-2118, TK-2160, TK-2200, TK-2300, TK-2400, TK-2406M, TK-2407M, TK-3100, TK-3101, TK-3102, TK-3140, TK-3160, TK-3170, TK-3173, TK-3180, TK-3200, TK-3200L, TK-3202, TK-3202LU, TK-3207, TK-3300, TK-3400U, TK-3402U16P, etc.
- **HYT:** TC-268, TC-268S, TC-368, TC-368S, TC-370S, TC-500, TC-500S, etc.
- **TYT:** TH-F1, TH-F2, TH-T2, TH-T3, TH-F6, TYT-300, TYT-500, TYT-600, TYT-800, TYT-888, etc.
- **Linton:** LT-2288, LT-3288, LT-6288, LT-3188, LT-2188, LT-3260, LT-3268, LT6188, etc.
- **Puxing:** PX-777, PX-777 PLUS, PX-666, PX-888, etc.
- **Quansheng:** TG-K4AT, TG-2AT, TG-45AT, TG-42AT, TG-22AT, TG-25AT, TG-UV, etc.
- **Cobra Handheld Floating VHF Radio:** MR HH125, HH350, HH350W, HH450, HH500, HH600.

MAINTENANCE

- **Inspect Connections:** Periodically check all connections for tightness. Loose connections can degrade signal quality.
- **Cable Care:** Avoid bending or kinking the coaxial cable sharply. Store the cable in a loose coil when not in use.
- **Clean Connectors:** Keep connectors clean and free from dirt, dust, and moisture. Use a soft, dry cloth for cleaning.
- **Environmental Protection:** If used outdoors, ensure connectors are protected from weather elements to prevent corrosion.

TROUBLESHOOTING

Issue: Poor Signal Quality or No Signal

- **Check Connections:** Ensure both the SMA and UHF SO239 connectors are securely fastened to their respective ports.
- **Inspect Cable:** Examine the RG58 coaxial cable for any visible damage, such as cuts, kinks, or severe bends. A damaged cable can significantly reduce performance.
- **Verify Antenna:** Confirm that your external antenna is correctly installed, functional, and tuned for the operating frequency.
- **Radio Settings:** Ensure your radio's settings (e.g., frequency, power output) are correctly configured.
- **Interference:** Check for potential sources of electromagnetic interference near your antenna or radio setup.

Issue: Connector Does Not Fit

- **Verify Connector Types:** Double-check that your radio has an SMA Male port and your antenna/feedline has a PL259 Male connector. This adapter is specifically designed for SMA Female to UHF SO239 Female connections.
- **Avoid Force:** Never force a connector. If it doesn't fit easily, re-verify the connector types.

WARRANTY AND SUPPORT





For warranty information or technical support regarding your BINGFU antenna adapter cable, please refer to the product packaging or contact BINGFU customer service directly. Contact details can typically be found on the manufacturer's official website or through your point of purchase.

Manufacturer: Bingfu

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Related Documents - BFN00458

<div><div>RF Connector Usage Guidelines</div><div><div>Made in China</div></div></div>	<div><div>Bingfu RF Connector Usage Guidelines</div><div>Concise guidelines for the proper installation and use of Bingfu RF connectors to ensure optimal performance and longevity.</div></div>
<div><div></div></div>	<div><div>Budget DIY GPS/GNSS Base Station / Receiver Setup With ESP32 and UM980</div><div>Learn how to build a cost-effective DIY GPS/GNSS base station or receiver using the ESP32 microcontroller and Unicorecomm UM980 module. This guide covers hardware, firmware, and configuration for creating a custom high-precision location system.</div></div>
<div><div></div></div>	<div><div>Produktliste und Preise für Elektronik und Zubehör</div><div>Umfassende Liste von Elektronikprodukten und Zubehör mit detaillierten Preisinformationen. Entdecken Sie eine breite Palette von Marken und Artikeln, von Kopfhörern und Lautsprechern bis hin zu Computern und Mobiltelefonzubehör.</div></div>