ICOM OPC 1000

Icom OPC-1000 Standard Cable Instruction Manual

Model: OPC 1000

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Icom OPC-1000 Standard Cable. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

The Icom OPC-1000 is a 20-foot (approximately 6.1 meters) microphone extension cable designed for marine communication systems. It is primarily used with the Icom Command Mic II and can also extend the factory microphone on compatible Icom radios, such as the M604.

2. PRODUCT OVERVIEW

The OPC-1000 cable features a robust design suitable for marine environments, including a waterproof bulkhead socket for secure connections.

Figure 1: Icom OPC-1000 Standard Cable. This image shows the cable with its male and female connectors, highlighting the waterproof bulkhead socket.

2.1 Components

- **OPC-1000 Cable:** 20-foot (6.1m) extension cable.
- **Male Connector:** Connects to the radio or existing microphone cable.
- **Waterproof Bulkhead Socket:** Female connector designed for panel mounting, ensuring a watertight seal.

3. SETUP AND INSTALLATION

Proper installation is crucial for the waterproof integrity and reliable operation of the OPC-1000 cable.

3.1 Tools Required

- Drill with appropriate bit size for bulkhead mounting.
- Screwdriver.
- Mounting plate (if not already present or included with your Command Mic).
- Marine sealant (recommended for bulkhead installation).

3.2 Installation Steps

1. **Select Mounting Location:** Choose a suitable, flat surface for mounting the bulkhead socket. Ensure there is enough space behind the panel for the cable and connections.
2. **Prepare Mounting Hole:** Drill a hole of the appropriate diameter for the bulkhead socket. Refer to the dimensions provided with your Command Mic or radio for precise sizing.
3. **Install Bulkhead Socket:** Insert the waterproof bulkhead socket into the drilled hole. Secure it using the provided mounting hardware (e.g., nut and washer) from the rear of the panel. Apply marine sealant around the flange for an extra watertight seal.
4. **Connect to Radio:** Connect the male end of the OPC-1000 cable to the microphone input port on your Icom marine radio. Ensure the connection is secure.
5. **Connect Command Mic II:** Connect your Command Mic II to the newly installed bulkhead socket. Ensure the connection is fully seated and the locking collar (if present) is tightened to maintain waterproof integrity.
6. **Cable Routing:** Route the cable away from heat sources, sharp edges, and areas where it might be pinched or damaged. Use cable ties to secure it.

Important: Ensure all connections are tight and properly sealed to prevent water ingress, which can damage the equipment.

4. OPERATION

Once the OPC-1000 cable is correctly installed, its operation is seamless with your Icom marine radio and Command Mic II.

- The cable extends the reach of your Command Mic II, allowing you to operate your radio from a remote location.
- Ensure the Command Mic II is properly connected to the bulkhead socket before use.
- Refer to your Icom marine radio and Command Mic II manuals for specific operating instructions related to their functions.

5. MAINTENANCE

The OPC-1000 cable is designed for durability in marine environments. Minimal maintenance is required to ensure its longevity.

- **Regular Inspection:** Periodically inspect the cable for any signs of wear, cuts, or damage to the outer jacket. Check connectors for corrosion or loose fittings.
- **Cleaning:** If exposed to saltwater, rinse the cable and connectors with fresh water and allow them to dry thoroughly. Do not use harsh chemicals or abrasive cleaners.
- **Connection Integrity:** Ensure all connections remain tight and free from debris.

Caution: Do not attempt to repair damaged cables. Replace them with genuine Icom parts to maintain performance and safety.

6. TROUBLESHOOTING

If you experience issues with your Command Mic II or radio after installing the OPC-1000 cable, consider the following troubleshooting steps:

- **No Audio/Intermittent Audio:**
    - Check all cable connections at both the radio and the Command Mic II. Ensure they are fully seated and secure.
    - Inspect the cable for visible damage (kinks, cuts).
    - Temporarily bypass the OPC-1000 cable and connect the Command Mic II directly to the radio (if possible) to determine if the issue lies with the cable or other components.

- **Water Ingress:**
    - If water is found near the bulkhead socket, check the mounting and sealant. Reapply sealant if necessary.
    - Ensure the Command Mic II connector is properly tightened to the bulkhead socket.

If problems persist after performing these checks, contact your authorized Icom dealer or Icom customer support for assistance.

7. SPECIFICATIONS

Feature	Specification
Model Number	OPC 1000
Cable Length	20 feet (approx. 6.1 meters)
Connector Type	Male-to-Female (Waterproof Bulkhead Socket)
Compatibility	Icom Command Mic II, Icom M604 (and other compatible Icom radios)
Special Features	Waterproof bulkhead socket
Color	Black
Weight	Approximately 1 Pound (0.45 kg)

8. WARRANTY AND SUPPORT

Icom products are manufactured to high standards of quality and performance. For specific warranty information, please refer to the warranty card included with your original product purchase or visit the official Icom website.

For technical support, service, or inquiries regarding genuine replacement parts, please contact your authorized Icom dealer or Icom customer service directly. Contact information can typically be found on the Icom official website or in your radio's main instruction manual.

Always use genuine Icom accessories to ensure optimal performance and to maintain warranty validity.