



Manuals.plus /

› Shakespeare /

› Shakespeare 4078-20-ER Extension Cable Kit User Manual

Shakespeare 4078-20-ER

Shakespeare 4078-20-ER Extension Cable Kit User Manual

Model: 4078-20-ER | Brand: Shakespeare

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Shakespeare 4078-20-ER Extension Cable Kit. This kit is designed to extend the reach of your VHF, AIS, or CB antenna, featuring RG-8x cable and an Easy Route FME Mini-End for simplified routing through tight spaces. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

SAFETY INFORMATION

- Always disconnect power to your radio equipment before installing or servicing antenna cables.
- Avoid kinking or sharply bending the coaxial cable, as this can damage the internal conductors and degrade performance.
- Ensure all connections are secure and weatherproofed to prevent moisture ingress.
- Do not install during lightning storms.
- If you are unsure about any part of the installation process, consult a qualified technician.

PACKAGE CONTENTS

Verify that all components are present in your package:

- 1 x RG-8x Coaxial Extension Cable (20 feet)
- 1 x FME Mini-End Connector (pre-installed on one end)
- 1 x PL-259 Connector (for termination after routing)
- 1 x FME to PL-259 Adapter

SETUP AND INSTALLATION

The Shakespeare 4078-20-ER cable kit is designed for easy routing. The FME Mini-End allows the cable to pass through small openings, after which the standard PL-259 connector can be attached.

Step 1: Planning the Cable Route

Determine the optimal path for your extension cable from your antenna to your radio equipment. Ensure the path avoids sharp bends, heat sources, and areas where the cable could be pinched or damaged.

Step 2: Routing the Cable

Begin routing the cable from the antenna end towards the radio. Utilize the pre-installed FME Mini-End to pass the cable through bulkheads, conduits, or other tight spaces. The small diameter of the FME connector simplifies this process.

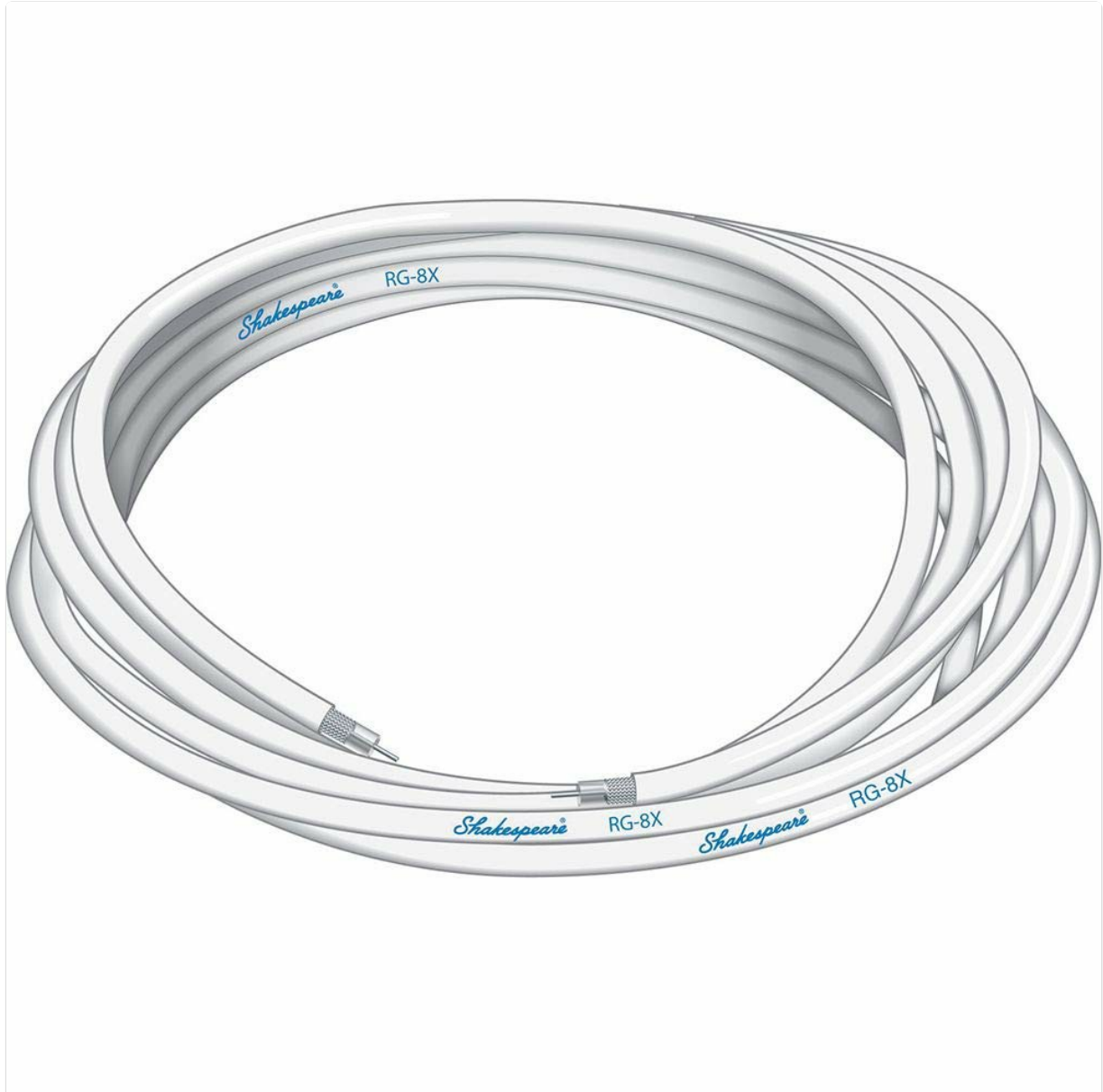


Image: The Shakespeare 4078-20-ER Extension Cable Kit, showing the RG-8x cable and the FME Mini-End connector, designed for easy routing.

Step 3: Attaching the PL-259 Connector

Once the cable is routed, you will need to attach the included PL-259 connector to the FME Mini-End for connection to your radio or antenna tuner. Follow these steps:

1. Unscrew the FME Mini-End from the cable.
2. Carefully prepare the cable end for the PL-259 connector according to standard coaxial cable

termination practices (strip outer jacket, braid, and dielectric to appropriate lengths).

3. Solder the center conductor to the tip of the PL-259 connector.
4. Solder the braid to the body of the PL-259 connector.
5. Ensure no stray strands of braid touch the center conductor.

Alternatively, if your antenna or radio uses an FME connection, you can use the FME to PL-259 adapter to convert the FME Mini-End to a standard PL-259 connection without re-terminating the cable.

Step 4: Connecting to Equipment

Connect the newly terminated PL-259 end of the extension cable to your VHF, AIS, or CB radio equipment. Connect the other end of the extension cable to your antenna cable. Ensure all connections are hand-tightened and then secured with a wrench if necessary, taking care not to overtighten.

For outdoor connections, apply a suitable weatherproof sealant (e.g., self-amalgamating tape) to prevent moisture ingress.

OPERATING INSTRUCTIONS

Once the Shakespeare 4078-20-ER Extension Cable Kit is properly installed and connected, it functions as a passive extension for your antenna system. No specific operational steps are required for the cable itself. Ensure your radio equipment is powered on and configured correctly for your antenna type and frequency band.

Regularly check the Signal-to-Noise Ratio (SNR) and Standing Wave Ratio (SWR) of your antenna system to confirm optimal performance. High SWR can indicate a poor connection or cable damage.

MAINTENANCE

To ensure the longevity and performance of your extension cable kit, follow these maintenance guidelines:

- **Regular Inspection:** Periodically inspect the entire length of the cable for any signs of physical damage, such as cuts, abrasions, or severe kinks.
- **Connection Check:** Verify that all connectors are securely tightened and free from corrosion. Reapply weatherproof sealant to outdoor connections as needed.
- **Cleaning:** Clean the cable and connectors with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Environmental Protection:** Ensure the cable is not exposed to extreme temperatures, direct sunlight for prolonged periods without UV protection, or corrosive environments.

TROUBLESHOOTING

If you experience issues with your antenna system after installing the extension cable, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Poor signal reception/transmission	Loose or corroded connections. Damaged cable. Incorrect connector termination.	Check all connections for tightness and corrosion. Inspect the cable for damage. Re-terminate PL-259 connector if necessary.
High SWR readings	Faulty cable or connectors. Improper antenna tuning. Moisture in connections.	Verify cable continuity and connector integrity. Ensure antenna is properly tuned for the frequency. Seal outdoor connections.
Intermittent signal	Loose connection. Cable movement causing stress on connections.	Secure all connections. Ensure cable is properly supported and not subject to excessive movement or strain.

SPECIFICATIONS

Feature	Detail
Model Number	4078-20-ER
Cable Type	RG-8x Coaxial Cable
Cable Length	20 feet
Connector Type (End 1)	FME Mini-End (Male)
Connector Type (End 2)	PL-259 (UHF Male) - user installed or via adapter
Application	VHF, AIS, CB Antennas
Item Weight	13.1 ounces (approx.)
Manufacturer	Shakespeare

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Shakespeare 4078-20-ER Extension Cable Kit, please contact the manufacturer, Shakespeare, directly. Refer to their official website or product packaging for the most current contact details and warranty terms.

When contacting support, please have your product model number (4078-20-ER) and purchase date available.