

## XMSJSIY LE-104

# XMSJSIY 14AWG Alligator Clip to SAE Connector Cable Instruction Manual

Model: LE-104

## INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your XMSJSIY 14AWG Alligator Clip to SAE Connector Cable. Please read this manual thoroughly before operation and retain it for future reference.

## SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in electric shock, fire, or other serious injury.**

- Always ensure correct polarity when connecting the alligator clips to a battery. The red clip is for the positive (+) terminal, and the black clip is for the negative (-) terminal. Incorrect polarity can damage your battery or connected device.
- Do not exceed the specified voltage (12-24V) or current (10A) ratings of this cable.
- Ensure all connections are secure and free from corrosion before applying power.
- Inspect the cable for any signs of damage (cuts, frayed wires, exposed conductors) before each use. Do not use if damaged.
- Keep the cable away from water and moisture when not in use, even with the waterproof cap.
- Do not attempt to modify or repair the cable. Contact customer support if the product is faulty.

## PRODUCT OVERVIEW

The XMSJSIY 14AWG Alligator Clip to SAE Connector Cable is designed to provide a convenient and secure connection between a 12-24V power source (like a battery) and devices equipped with an SAE connector. It features robust alligator clips and a waterproof SAE connector cap for protection.



**Figure 1:** Overview of the XMSJSIY 14AWG Alligator Clip to SAE Connector Cable, showing the red and black alligator clips, the 14AWG cable, and the SAE connector with its protective cap.

## SETUP AND CONNECTION

### 1. Identify Components:

- One red alligator clip (Positive +)
- One black alligator clip (Negative -)
- 14AWG copper wire cable
- One SAE connector
- One waterproof cap for the SAE connector



**Figure 2:** Detailed view of the cable construction, highlighting the 14AWG pure copper wire and the color-coded red (positive) and black (negative) wires for correct polarity identification.

### 2. Connect to Battery:

Ensure the power source (e.g., battery charger, solar panel) is disconnected or turned off before making connections.

- Connect the **red alligator clip** securely to the **positive (+) terminal** of your 12-24V battery.
- Connect the **black alligator clip** securely to the **negative (-) terminal** of your 12-24V battery.

**Important: Double-check that the clips are firmly attached and that the polarity is correct before proceeding.**

### 3. Connect to Device:

Once the alligator clips are connected to the battery, connect the SAE connector end of the cable to the corresponding SAE input on your device (e.g., solar panel, battery charger, car equipment).



**Figure 3:** Close-up of the SAE connector, demonstrating the integrated dustproof and waterproof cap designed to protect the connection from environmental elements when not in use.

### 4. Secure the Connection:

If the SAE connector is not in use, ensure the waterproof cap is securely placed over the connector to protect it from dust and moisture.

## OPERATING INSTRUCTIONS

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This cable facilitates the connection between a battery and various 12-24V devices. Common applications include:

- Connecting solar panels to charge batteries.
- Connecting battery chargers to vehicle batteries (motorcycles, cars, trucks, SUVs).
- Powering 12-24V car equipment or household appliances from a battery.
- Use with generators or other portable power sources.



**Figure 4:** Visual representation of the cable's versatility, showing its use with various vehicles like cars, pickups, motorcycles, boats, trucks, and equipment such as solar panels, battery chargers, and lawn mowers.

Once connected, ensure your charging device or appliance is operating within the cable's specifications (12-24V, max 10A).

## MAINTENANCE

- **Cleaning:** Wipe the cable and clips with a dry, clean cloth to remove any dirt or debris. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the cable in a dry, cool place away from direct sunlight and extreme temperatures. Ensure the waterproof cap is on the SAE connector when not in use.
- **Inspection:** Regularly inspect the cable for any signs of wear, damage, or corrosion on the clips or connector pins. Replace the cable if any damage is observed.
- The PVC shell and copper wire construction are designed for durability and heat resistance, but proper care extends the product's lifespan.

## TROUBLESHOOTING

- **No Power/Connection:**
  - Verify that the alligator clips are securely attached to the correct battery terminals (red to positive, black to negative).
  - Check for corrosion on battery terminals or alligator clips. Clean if necessary.
  - Ensure the SAE connector is fully inserted into the device's port.
  - Confirm the battery has sufficient charge.
- **Device Not Charging/Working:**
  - Ensure the connected device is compatible with 12-24V input and does not exceed the cable's 10A current rating.
  - Check the device's own power indicator or manual for troubleshooting.
- **Polarity Mismatch with Other SAE Connectors:**

**Important Note:**

While this cable adheres to standard polarity (red wire to positive pin, black wire to negative pin on

the SAE connector), some SAE connectors on other devices or cables may have reversed polarity. Always verify the polarity of your charger or device before connecting to avoid damage. If a polarity mismatch is suspected, consult the manual of your other equipment or use a multimeter to confirm.

### SPECIFICATIONS

|                  |                                      |
|------------------|--------------------------------------|
| Brand            | XMSJSIY                              |
| Model Number     | LE-104                               |
| Material         | PVC + Copper                         |
| Wire Type        | 14AWG (approx. 2.08mm <sup>2</sup> ) |
| Voltage Rating   | 12-24V                               |
| Current Rating   | 10A (Maximum)                        |
| Cable Length     | Approx. 1 meter (3.28 feet)          |
| Clamp Length     | Approx. 85mm (3.35 inches)           |
| Clamp Opening    | Approx. 30mm (1.18 inches)           |
| Item Weight      | Approx. 120g                         |
| Special Features | Water Resistant SAE Connector Cap    |

### WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not provided in the product details. Please refer to your purchase documentation or contact the seller directly for details on warranty coverage and support options.