

Datasheet: MC4 Connector Tool Kit (IWS18119)



Product Overview

The MC4 Connector Tool Kit (Model: IWS18119) is a comprehensive set of tools designed for the installation and maintenance of MC4 solar connectors. This kit includes a press plier, wire stripper, MC4 wrench, and MC4 connectors with terminals, providing all necessary components for efficient and reliable solar panel wiring.

Kit Contents

- LY-2546B Press Pliers**
 - Crimp Range:** 2.5/4/6 mm²
 - American Wire Gauge (AWG):** 14-10 AWG
 - Weight:** 0.4 kg
 - Length:** 220 mm
 - Application:** For crimping MC4 connector terminals onto solar cables.
- FSA-0626 Wire Stripper**
 - Stripping Range:** Diameter 0.6–2.6 mm (0.35–6 mm²)
 - Cutting Range:** 22–10 AWG
 - Weight:** 0.16 kg
 - Length:** 180 mm
 - Application:** For stripping insulation from single-conductor solar cables.
- MC4 Connector Wrench**
 - Material:** High-strength PPO plastic
 - Dimensions:**
 - Length: 125 mm
 - Width: 40 mm
 - Hole Diameter: 20 mm
 - Application:** For tightening and loosening MC4 connectors without damaging them. Not compatible with Huawei or Anphino connectors.
- MC4 Connectors with Terminals**
 - Connector Insulation Material:** PPO or PBT
 - Connector Conductor Material:** Copper, tin-plated

- **Dimensions:**
 - Female Connector: 18.8 mm (Diameter)
 - Male Connector: 18.7 mm (Diameter) x 12.3 mm (Length)
- **Application:** For secure and weatherproof connections in solar panel systems.

Key Features

- **Comprehensive Kit:** Includes all essential tools for MC4 connector installation.
- **High-Quality Materials:** Tools are made from durable materials to ensure longevity and reliable performance.
- **Ergonomic Design:** Tools feature comfortable handles for reduced user fatigue during prolonged use.
- **Versatile Application:** Suitable for residential, commercial, and industrial solar panel installations.

Applications

- **Solar Panel Installation:** For connecting solar panels in photovoltaic systems.
- **Electrical Wiring:** For crimping, stripping, and connecting wires in solar energy systems.
- **Maintenance and Repairs:** For servicing and repairing MC4 connectors in existing solar installations.

Operating Instructions for MC4 Connector Tool Kit



1. Cut the Solar Cable as Needed

- Use an appropriate cutting tool to cut the solar cable to the desired length. Ensure the cut is clean and even.

2. Strip the Solar Cable Insulation

- Utilize the FSA-0626 wire stripper to remove the insulation from the solar cable. Adjust the stripper to the appropriate size for the cable diameter. Carefully strip off the insulation to expose the inner conductor without damaging it.

3. Select the Appropriate Terminal and Place it in the Crimping Die

- Choose the correct MC4 connector terminal based on the cable size (2.5/4/6 mm²). Open the jaws of the LY-2546B press pliers and place the terminal into the corresponding crimping die.

4. Insert the Stripped Cable into the Terminal

- Take the stripped solar cable and insert it into the selected MC4 connector terminal. Ensure that the exposed conductor is fully inserted into the terminal for a secure connection.

5. Crimp the Terminal onto the Cable

- Position the press pliers with the terminal and cable in place. Squeeze the handles of the pliers firmly until you hear a "click" sound, indicating that the crimping process is complete. This ensures a tight and reliable connection between the terminal and the cable.

6. Complete the Crimping Process

- Release the handles of the press pliers and remove the crimped terminal and cable assembly. Inspect the crimped connection to ensure it is secure and properly formed. The cable is now ready for connection using the MC4 connectors.

Safety Precautions

- **Wear Protective Gear:** Always wear gloves and safety glasses when working with solar cables and connectors.
- **Disconnect Power:** Ensure that the solar system is disconnected from any power source before performing installations or repairs.
- **Proper Tool Use:** Use each tool for its intended purpose only. Misuse may result in damage to the tools or injury to the user.

Package Includes

- LY-2546B Press Pliers
- FSA-0626 Wire Stripper
- MC4 Connector Wrench
- MC4 Connectors with Terminals
- Durable Carrying Case for easy storage and transportation