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## Szuenh 6-pin with 18-24 AWG,

# 6-pin Wire Connector Kit User Manual

Model: 6-pin with 18-24 AWG | Brand: Szuenh

## INTRODUCTION

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This manual provides comprehensive instructions for the proper use, installation, and maintenance of your 6-pin Wire Connector Kit. Please read this manual thoroughly before operation to ensure safe and efficient use.

The 6-pin Wire Connector Kit is a versatile solution designed for various electrical applications. It supports 18-24 AWG wires and features a standard 0.165-inch (4.2 mm) pin spacing, ensuring broad compatibility with many electronic components and systems. Its robust design ensures stable current transmission and reliable connections for both low-voltage control and medium-load power supply lines.

## PACKAGE CONTENTS

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Verify that all components are present in the package:

- 10 x 6-pin Male Connector Housings
- 10 x 6-pin Female Connector Housings
- 60 x Male Terminal Pins (for 18-24 AWG wires)
- 60 x Female Terminal Pins (for 18-24 AWG wires)



Figure 1: Complete 6-pin wire connector kit components.

## SPECIFICATIONS

Attribute	Value
Product Name	6-pin Wire Connector Kit
Model Number	6-pin with 18-24 AWG
Wire Gauge Compatibility	18-24 AWG
Pin Spacing	0.165 inch (4.2 mm)
Connector Type	Male and Female Plugs
Terminal Type	Terminal Sockets
Contact Material	Brass
Insulation Material	Acrylonitrile Butadiene Styrene (ABS)

Product Dimensions	0.1 x 0.1 x 0.1 inches (approximate)
Item Weight	1.6 ounces (approximate)

## SETUP AND INSTALLATION

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Follow these steps to properly assemble and install the 6-pin wire connectors:

1. **Prepare Wires:** Strip approximately 3-4 mm of insulation from the end of each 18-24 AWG wire you intend to connect. Ensure the copper strands are clean and untwisted.
2. **Crimp Terminals:** Insert the stripped end of a wire into the barrel of the appropriate male or female terminal pin. Use a suitable crimping tool to securely crimp the terminal onto the wire. Ensure a firm connection that will not pull out easily.



Figure 2: Individual terminal pins for crimping.

3. **Insert Terminals into Housing:** Carefully insert the crimped terminal into the correct cavity of the male or female connector housing. Push until you hear a click, indicating that the terminal's locking tab has engaged with the

housing. Gently pull on the wire to confirm it is securely seated.



Figure 3: Connector housings and terminals before assembly.

4. **Repeat for all Wires:** Repeat steps 1-3 for all 6 wires on both the male and female sides of the connector. Ensure correct pin assignment for your application.
5. **Connect the Plugs:** Align the male and female connector plugs and push them together firmly until the snap-lock mechanism engages. This creates a secure and stable connection.

# 6-Pin Connector Kit



Figure 4: Mating the male and female connectors.

*Note:* The sturdy snap-lock door lock structure ensures the connection remains secure even during vibrations, preventing accidental disconnection.

## OPERATING PRINCIPLES

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Once assembled, the 6-pin wire connector facilitates the transmission of electrical signals or power between two connected circuits. Its design ensures stable current transmission and good contact performance, suitable for both low-voltage control and medium-load power supply lines.

- **Secure Connection:** The tight fit and snap-lock mechanism prevent accidental disconnections, even in environments with frequent movement or vibration.
- **Versatility:** Suitable for a wide range of applications including automotive wiring harnesses, electric vehicles, lighting systems, power conversion, and electronic control modules.
- **Reliability:** High-strength housing and highly conductive terminals ensure long-term electrical reliability.

## MAINTENANCE

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The 6-pin wire connector kit is designed for durability and requires minimal maintenance. However, periodic inspection can prolong its lifespan and ensure optimal performance:

- **Visual Inspection:** Regularly inspect the connectors for any signs of physical damage, such as cracks in the housing, bent pins, or corrosion on the terminals.
- **Cleanliness:** If operating in dusty or dirty environments, occasionally disconnect the plugs and gently clean the terminals and housing with a dry, soft brush or compressed air. Avoid using liquid cleaners unless specifically designed for electrical contacts.
- **Connection Integrity:** Periodically check that the male and female plugs are securely mated and that individual wires are still firmly crimped into their terminals and seated in the housing.

*Do not attempt to modify the connectors.* Any unauthorized modifications may compromise the integrity and safety of the connection.

## TROUBLESHOOTING

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This section addresses common issues you might encounter with the 6-pin wire connector kit.

Problem	Possible Cause	Solution
Loose connection / Intermittent signal	<ul style="list-style-type: none"><li>◦ Terminals not fully seated in housing.</li><li>◦ Poor crimp on wire.</li><li>◦ Plugs not fully mated.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure terminals click into place.</li><li>◦ Re-crimp wire if necessary.</li><li>◦ Push plugs firmly until snap-lock engages.</li></ul>
Difficulty inserting terminals into housing	<ul style="list-style-type: none"><li>◦ Terminal bent or misaligned.</li><li>◦ Incorrect terminal orientation.</li></ul>	<ul style="list-style-type: none"><li>◦ Straighten terminal or replace.</li><li>◦ Ensure correct orientation (refer to housing keying).</li></ul>
Plugs won't mate	<ul style="list-style-type: none"><li>◦ Misalignment.</li><li>◦ Obstruction in pins/sockets.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure correct alignment.</li><li>◦ Inspect for debris or bent pins.</li></ul>

## WARRANTY AND SUPPORT

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For information regarding warranty coverage or technical support, please refer to the product packaging or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: China

Brand: Szuenh

For further assistance, you may visit the product page on Amazon: [Amazon Product Page](#)



