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> elechawk 40 Sets Servo Plug Male Female Connector Crimp Pin Cable Kit User Manual

## elechawk CWK-SYF254-FM01

# elechawk 40 Sets Servo Plug Male Female Connector Crimp Pin Cable Kit User Manual

Model: CWK-SYF254-FM01

## 1. INTRODUCTION

This manual provides detailed instructions for the proper use, assembly, and maintenance of your elechawk 40 Sets Servo Plug Male Female Connector Crimp Pin Cable Kit. This kit is designed for various RC applications, including RC cars, multirotor drones, quadcopters, helicopters, and airplanes, offering versatile connectivity solutions for servo extensions and power cables.

## 2. COMPONENTS OVERVIEW

Your kit includes the following components:

- 20 sets of male servo plugs
- 20 sets of female servo connectors
- 20 sets of red male JST SYP connectors
- 20 sets of female JST SYP connectors
- 3 meters of 22AWG cables (3P wires, multi-core tinned copper)
- 1 pair of tweezers
- Plastic storage box



Figure 2.1: Overview of the elechawk connector kit components. The kit includes various male and female servo and JST SYP connectors, 22AWG cables, and tweezers, neatly organized in a clear plastic box.

## 22AWG soft cable multi-core tinned copper



Figure 2.2: Detail of the 22AWG soft cable included in the kit, highlighting its multi-core tinned copper construction for durability and efficient current handling.

### 3. SETUP AND ASSEMBLY

This section guides you through the process of crimping the pins and assembling the connectors. Proper crimping is crucial for reliable electrical connections.

#### 3.1 Pin Crimping

To prepare the wires for connection, you will need to crimp the metal pins onto the ends of the 22AWG cables. While professional crimping pliers are recommended for optimal results, ordinary pliers can also be used with careful technique.

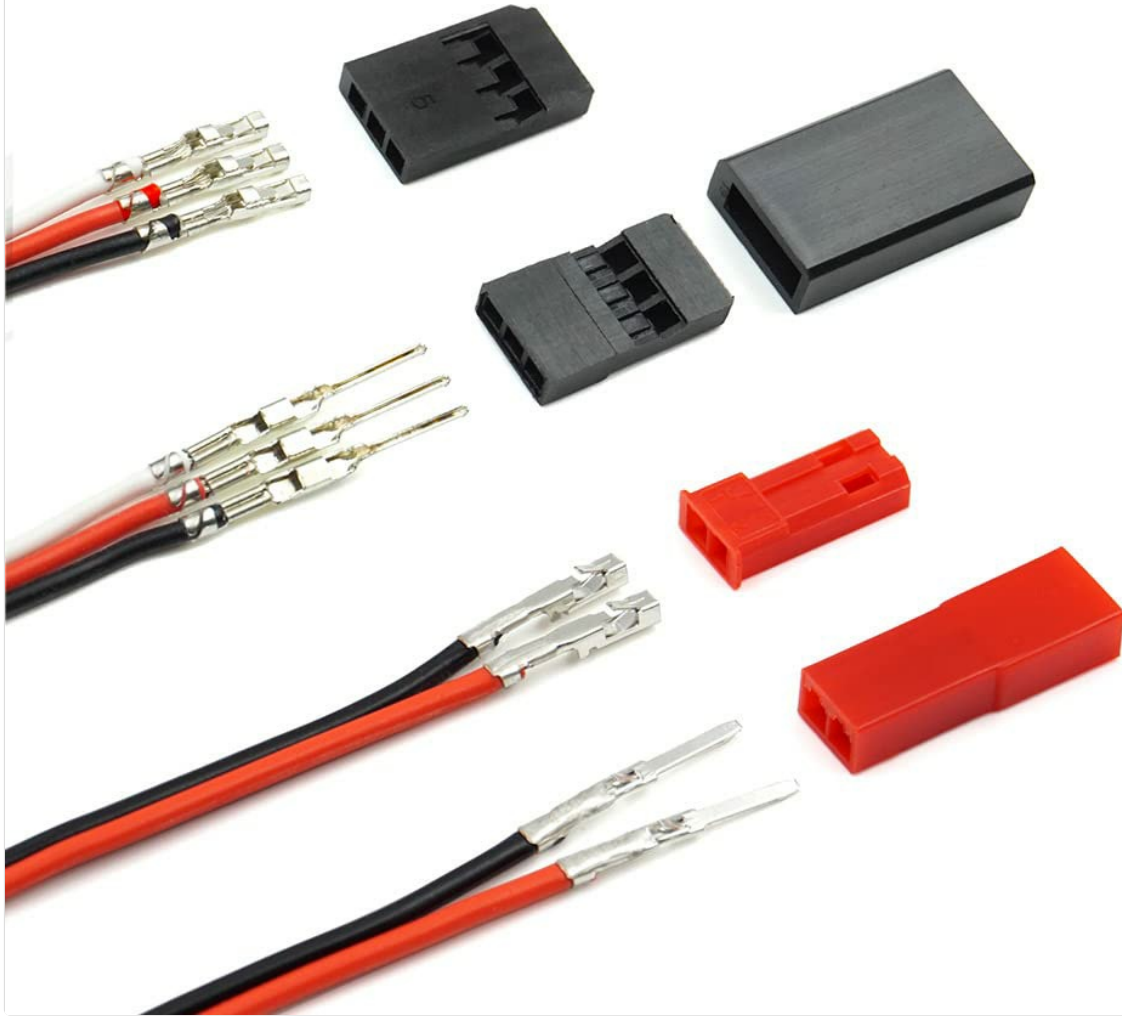
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Video 3.1: This video demonstrates the process of crimping pins onto wires and assembling JST SYP and servo connectors. It covers techniques using both professional crimping tools and standard pliers.

#### 3.2 Connector Assembly

Once the pins are crimped onto the wires, they need to be inserted into the appropriate connector housings. Ensure correct pin orientation and secure seating within the housing.

# Assemble it as this picture



*Figure 3.1: Visual guide for assembling the crimped pins into the male and female servo connector housings and the red JST SYP connector housings.*



Figure 3.2: Detailed view of the separate plastic housings and metal crimp pins for both servo and JST SYP connectors, illustrating the parts before assembly.

## 4. OPERATING INSTRUCTIONS

The assembled servo and JST SYP connectors are ready for use in your RC projects. The black servo connectors are compatible with Futaba and JR systems, ideal for extending or repairing servo connections. The red JST SYP connectors are designed for power cable applications.

Ensure that the male and female connectors are aligned correctly before pushing them together to form a secure connection. Avoid forcing connections to prevent damage to pins or housings.

## 5. MAINTENANCE

To ensure the longevity and reliability of your connectors:

- **Storage:** Store unused components in the provided plastic box to prevent loss and damage.
- **Inspection:** Periodically inspect assembled connectors for any signs of wear, corrosion, or loose pins.
- **Cleaning:** If necessary, gently clean pins with a dry, non-abrasive cloth. Avoid using liquids that could cause corrosion or short circuits.

- **Handling:** Always grasp the connector housing when disconnecting, rather than pulling on the wires, to prevent pin damage or wire separation.

## 6. TROUBLESHOOTING

If you encounter issues with your connections, consider the following:

- **No Connection/Intermittent Connection:**
  - Check if pins are fully seated and locked into the connector housing.
  - Verify that the wires are securely crimped to the pins. Re-crimp if necessary.
  - Inspect pins for bending or damage. Straighten bent pins carefully or replace damaged ones.
- **Difficulty Connecting/Disconnecting:**
  - Ensure correct male/female orientation.
  - Check for debris inside the connector housings.
- **Wire Breakage at Crimp:**
  - This often indicates improper crimping technique or excessive strain on the wire. Ensure the wire insulation is crimped by the larger wings of the pin and the conductor by the smaller wings.

## 7. SPECIFICATIONS

Feature	Specification
Brand	elechawk
Model Number	CWK-SYF254-FM01
Material	Copper (for pins)
Item Dimensions (L x W x H)	7.09 x 3.94 x 0.79 inches
Item Weight	5.6 ounces (160 Grams)
Servo Connector Type	Futaba/JR compatible (2.54mm pin spacing)
JST SYP Connector Type	JST SYP compatible (2.5mm pin spacing)
Cable Gauge	22AWG
Cable Length	3 meters

## 8. WARRANTY AND SUPPORT

For any questions, technical assistance, or support regarding your elechawk connector kit, please contact the seller directly through the platform where the purchase was made. Please refer to your purchase receipt or order details for specific warranty information provided by the seller.