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› chenyang USB 3.1 Type-C 24-Pin Male DIY Solder Connector (5-Pack) Instruction Manual

chenyang FBA-UC-350-BK

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Model: FBA-UC-350-BK | Brand: chenyang

INTRODUCTION

This manual provides detailed instructions for the assembly and use of the chenyang USB 3.1 Type-C 24-Pin Male DIY Solder Connector. This product is designed for users who wish to repair or create custom USB-C cables, offering a versatile solution for various electronic projects. Each pack contains five (5) male USB-C connectors with integrated PCB boards and housing components.



Image: A pack of five chenyang USB-C DIY solder connectors, each with a black housing.

PRODUCT COMPONENTS

Each DIY connector unit includes the following parts:

- USB-C Male Connector with PCB Board
- Black Housing Cover (two parts)
- Strain Relief (SR) boot

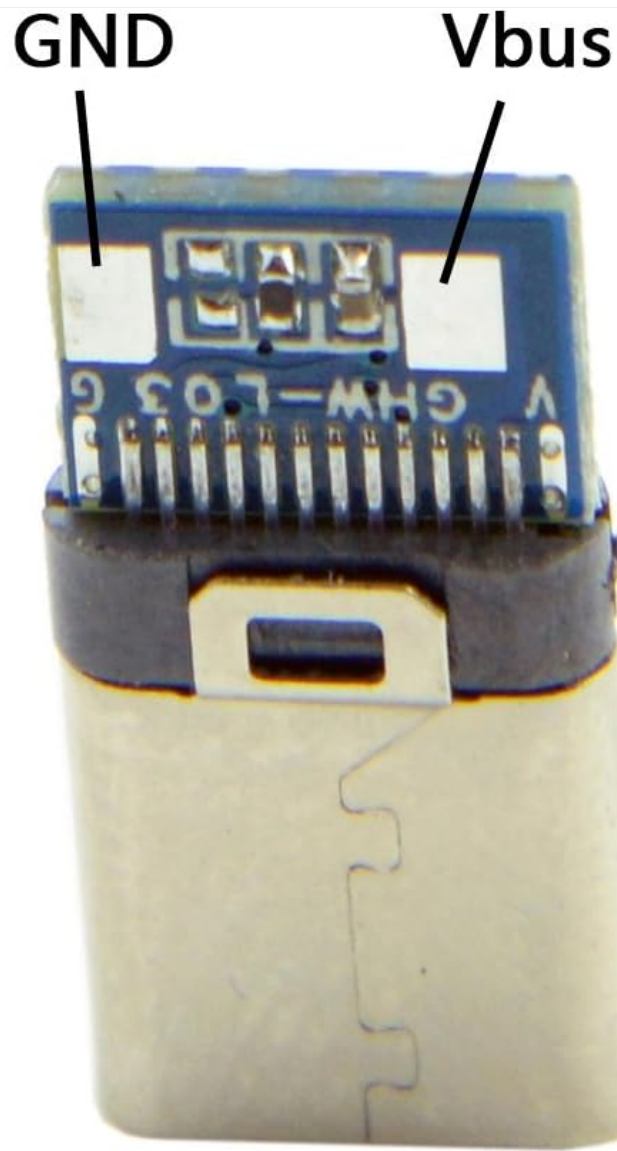


Image: Exploded view showing the USB-C connector with PCB, two-part housing, and strain relief boot.

SETUP AND ASSEMBLY

Assembly of this DIY connector requires soldering. Please ensure you have the necessary tools (soldering iron, solder, flux, wire strippers, multimeter) and experience with fine-pitch soldering.

1. **Prepare the Cable:** Carefully strip the outer jacket of your cable to expose the individual wires. Strip a small amount of insulation from each wire.
2. **Thread Housing Components:** Before soldering, thread the strain relief boot and the two parts of the black housing onto your cable in the correct order. This is crucial as they cannot be added after soldering.
3. **Identify Pinouts:** Refer to the pinout diagrams below to correctly identify the soldering pads on the PCB. The connector features a 56k resistor, making it suitable for Type-C Power+Data applications, but it is **not** designed for On-The-Go (OTG) functionality.



56k Resistor for Power+Data Not for OTG

Image: Close-up of the PCB showing GND and Vbus soldering points. Note the integrated 56k resistor for power and data.

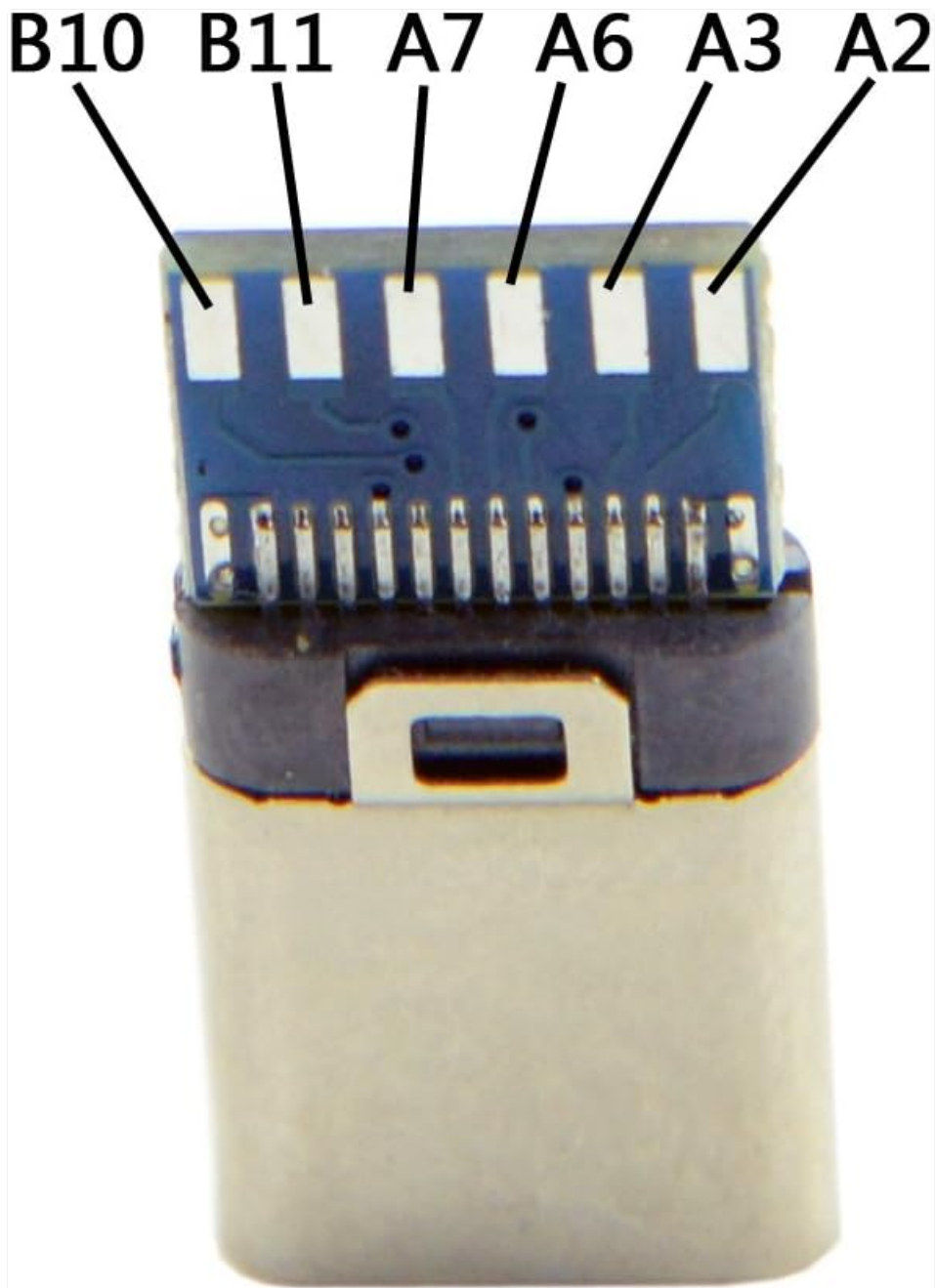


Image: Close-up of the PCB showing additional pin labels (A2, A3, A6, A7, B10, B11) for data and other connections.

4. **Solder Wires:** Carefully solder each wire to its corresponding pad on the PCB. Ensure strong, clean connections to prevent shorts or intermittent functionality. The V+ and GND pads are designed with contacts on both sides for easier soldering.
5. **Test Functionality:** Before final assembly of the housing, use a multimeter or connect to a test device to verify all connections and ensure proper functionality (power and data).
6. **Assemble Housing:** Slide the strain relief boot and housing parts over the soldered connections. The housing is designed to enclose the PCB and provide protection. Some users have reported that the housing may not lock securely and might require a small amount of adhesive (e.g., super glue or hot glue) to keep it firmly in place, especially for the inner case to the outer shell. Apply adhesive sparingly if needed.
7. **Secure Strain Relief:** Position the strain relief boot to protect the cable where it exits the housing, reducing stress on the soldered connections.

Important Note: The reversible design of the USB-C connector allows it to be plugged into a female port in either direction, enhancing user convenience.

OPERATING INSTRUCTIONS

Once assembled, the chenyang USB 3.1 Type-C DIY Solder Connector functions as a standard USB-C male plug. It is intended for connecting devices that require USB 3.1 power and data transfer. Simply plug the assembled connector into a compatible USB-C female port on your device or charger.

- **Power Delivery:** The integrated 56k resistor signals to the power source that it is a standard USB device, typically requesting 5 volts.
- **Data Transfer:** Supports USB 3.1 data transfer speeds.
- **Compatibility:** Compatible with various devices including laptops, PCs, smartphones, smart televisions, and video game consoles that utilize USB-C for power and data.

Caution: This connector is specifically designed for power and data. It does**not** support USB On-The-Go (OTG) functionality.

MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your DIY USB-C connector:

- **Inspect Connections:** Periodically check the cable near the connector for any signs of wear, fraying, or damage to the strain relief.
- **Cleanliness:** Keep the connector free from dust and debris. Use a dry, soft cloth to gently wipe the metal contacts if necessary.
- **Avoid Stress:** Do not pull the cable by the wire when disconnecting. Always grasp the connector housing. Avoid bending the cable sharply at the connector point.
- **Housing Integrity:** If the housing feels loose, consider reinforcing it with a small amount of appropriate adhesive to prevent internal components from shifting.

TROUBLESHOOTING

If you encounter issues with your assembled USB-C connector, consider the following troubleshooting steps:

- **No Power/Data:**
 - **Check Soldering:** The most common issue is poor or cold solder joints. Re-inspect all connections on the PCB for continuity using a multimeter. Ensure no wires are shorting.
 - **Correct Wiring:** Verify that the wires are soldered to the correct pins according to the pinout diagrams. Incorrect wiring will prevent proper function.
 - **56k Resistor:** If you are using this connector as a device and experiencing no power, ensure the 56k resistor is correctly integrated and functioning. This resistor is crucial for signaling to USB-PD (Power Delivery) chargers to provide 5 volts.
- **Loose Housing:**
 - Some users have noted that the plastic housing may not snap together securely. If the connector separates or the PCB pushes back into the housing, apply a small amount of super glue or hot glue to secure the internal components and the housing parts together.
- **Intermittent Connection:**
 - This often indicates a weak solder joint or a partially broken wire. Re-examine the soldered connections and the cable for any damage.

- **Connector Not Fitting:**

- Ensure the male connector is aligned correctly with the female port. The reversible design means it can be inserted either way, but physical obstruction might occur if the housing is not properly assembled or if the cable is too thick for the strain relief.

SPECIFICATIONS

Product Name	chenyang USB 3.1 Type-C 24-Pin Male DIY Solder Connector
Model Number	FBA-UC-350-BK
Quantity	5 Pack
Connector Type	USB Type C Male
USB Standard	USB 3.1 (Power + Data)
Resistor	56k Ohm (for Power Delivery negotiation)
OTG Support	No
Color	Black Housing
Product Dimensions	Approximately 3.94 x 3.94 x 0.39 inches (assembled)
Item Weight	Approximately 0.282 ounces (per unit)
Compatible Devices	PC, Laptop, Smart Television, Smartphone, Video Game Console (for power and data)
Manufacturer	HongKong ChenYang Electronic CO. LTD.
Country of Origin	Made in China

WARRANTY AND SUPPORT

As a DIY component, the warranty for the assembled product depends on the quality of the user's assembly. The individual components are manufactured to quality standards.

For technical inquiries or support regarding the chenyang USB-C DIY Connector components, please contact the manufacturer:

- **Manufacturer:** HongKong ChenYang Electronic CO. LTD.
- **Website:** www.cablecc.com
- **Email:** SALES@CABLECC.COM

CHENYANG[®]



FCC CE Recycle RoHS	
Product Name	Cable Adapter
	XDH Tech
EC REP	2 Rue Coysevox Bureau 3, Lyon, France Email: xdh.tech@outlook.com TEL: +330652768898
Manufacturer	HongKong ChenYang Electronic CO. LTD. 11th Floor, The Center, 99 Queen's Road Central, Central, Hong Kong
Website	WWW.CABLE.CC
Email	SALES@CABLECC.COM
Country of Origin	Made in China

Professional Connector & Cable & Adapter

• Work for tablet/cell phone/ebook

• Work for Computer/Laptop/macbook

HongKong ChenYang Electronic CO. LTD. / Made in China

Image: Product packaging label displaying manufacturer details and contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question