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› Youme 22 AWG 2-6S Lipo Battery Charging Cable JST XH Connector Adapter Plug User Manual

Youme Power YM-PJ-B2-6

Youme 22 AWG 2-6S Lipo Battery Charging Cable JST XH Connector Adapter Plug User Manual

Model: YM-PJ-B2-6

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Youme 22 AWG 2-6S Lipo Battery Charging Cables with JST XH connectors. Please read this manual thoroughly before use to ensure proper operation and to prevent damage to the product or connected devices.

2. PRODUCT OVERVIEW

The Youme 22 AWG 2-6S Lipo Battery Charging Cables are designed for connecting Lipo batteries with JST XH balance ports to compatible chargers or battery testers, such as the IMAX B6. This set includes a variety of balance leads to accommodate different cell counts, specifically 2S1P, 3S1P, 4S1P, 5S1P, and 6S1P configurations.

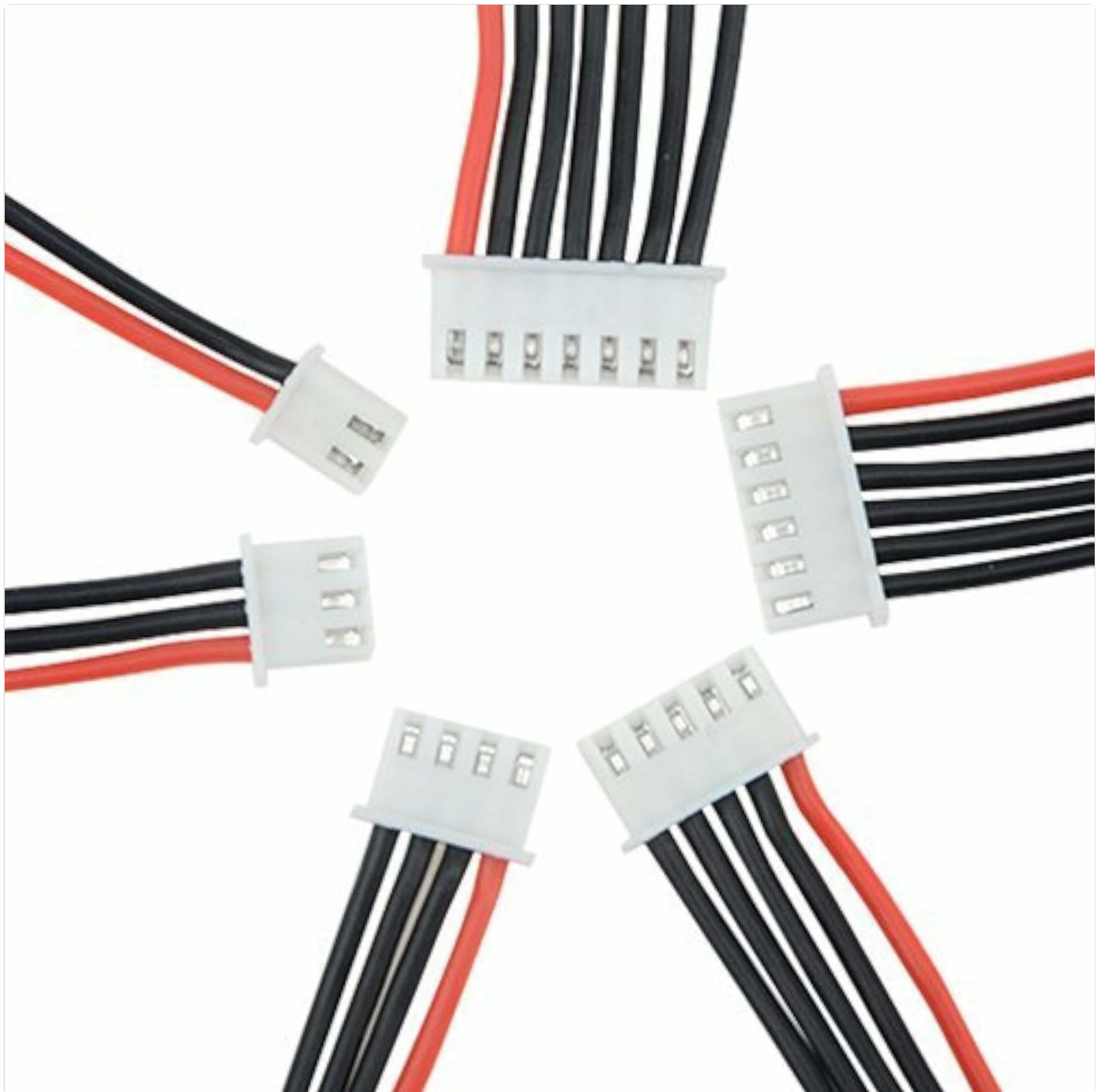


Figure 2.1: Overview of the Youme JST XH balance cables included in the set. Each cable features a JST XH connector on one end and bare wires on the other, suitable for various charging or testing applications.

Each cable is constructed with durable 22 AWG silicone wire, known for its flexibility and high-temperature resistance. The JST XH connector is a standard 2.54mm pitch connector, ensuring compatibility with a wide range of Lipo batteries and balance chargers.



Figure 2.2: Detailed view of the JST XH balance cables, illustrating the different configurations from 2S to 6S. Each cable is clearly identifiable by its number of pins corresponding to the cell count.

3. SPECIFICATIONS

Feature	Detail
Wire Gauge	22 AWG
Wire Material	Silicone
Connector Type	JST XH
Connector Pitch	2.54 mm
Wire Diameter (OD)	1.5 mm

Feature	Detail
Operating Temperature	Up to +200 °C (392 °F)
Included Configurations	2S1P, 3S1P, 4S1P, 5S1P, 6S1P (2 pieces of each)
Model Number	YM-PJ-B2-6
UPC	765470650123

4. SETUP

These balance cables are designed for integration into custom charging setups or for direct connection to compatible balance chargers/testers. The bare wire ends require proper termination for safe and effective use.

4.1 Identifying Cables

Each cable is marked by the number of pins on its JST XH connector, corresponding to the cell count (e.g., 3 pins for 2S, 4 pins for 3S, up to 7 pins for 6S). Ensure you select the correct cable for your battery's cell count.

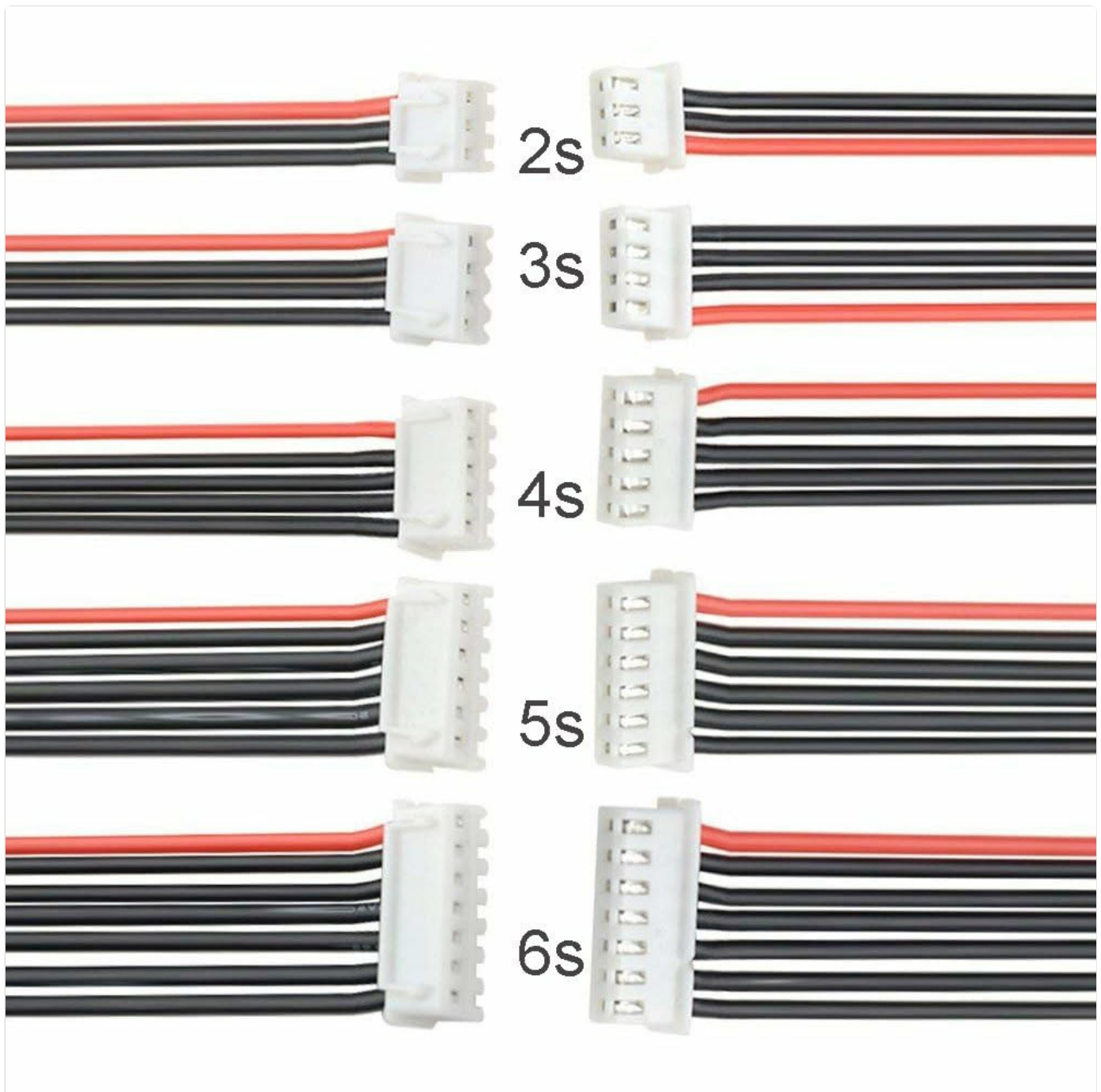


Figure 4.1: The set includes cables for 2S, 3S, 4S, 5S, and 6S Lipo batteries. The number of pins on the JST XH connector indicates the cell count (e.g., 3 pins for 2S, 7 pins for 6S).

4.2 Wiring Considerations

- The bare wire ends are intended for soldering to a charging board, a custom adapter, or directly to a charger's balance port if applicable.
- Always observe correct polarity. The red wire typically indicates the positive (+) terminal, and black wires indicate negative (-) or balance leads. Refer to your charger's manual for specific wiring diagrams.
- Ensure all connections are secure and insulated to prevent short circuits.

5. OPERATING INSTRUCTIONS

These cables facilitate the balance charging and testing of Lipo batteries. Proper operation involves connecting the cable to both the battery and the charger/tester.

5.1 Connecting to a Lipo Battery

1. Identify the balance port on your Lipo battery. It will be a multi-pin connector, typically JST XH.
2. Select the Youme balance cable that matches the cell count of your Lipo battery (e.g., for a 3S battery, use the 3S balance cable).
3. Carefully align the JST XH connector of the cable with the balance port on the battery and push firmly until it clicks into place. Do not force the connection.

5.2 Connecting to a Charger/Tester

1. Connect the bare wire ends of the Youme balance cable to the corresponding balance port on your Lipo charger or battery tester. This typically involves soldering or using screw terminals, depending on your charger's design.
2. Ensure that the main power leads of the Lipo battery are also connected to the charger's main output terminals.
3. Follow your charger's specific instructions for initiating balance charging or battery testing.

Important Safety Note: Always ensure correct polarity and cell count matching before connecting. Incorrect connections can lead to battery damage, charger damage, or fire. Never leave charging batteries unattended.

6. MAINTENANCE

Proper maintenance extends the lifespan of your Youme balance cables and ensures safe operation.

- **Inspection:** Regularly inspect the cables for any signs of wear, fraying, cuts in the insulation, or bent/corroded pins on the JST XH connector.
- **Cleaning:** Keep the connectors clean and free of dust or debris. A soft, dry brush or compressed air can be used.
- **Storage:** Store cables in a dry, cool place, away from direct sunlight and extreme temperatures. Avoid kinking or sharply bending the wires.
- **Handling:** Always grasp the connector housing when plugging or unplugging, not the wires, to prevent damage to the wire-to-connector joint.

If any damage is observed, discontinue use of the cable immediately and replace it.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your balance cables.

7.1 Charger Not Recognizing Battery

- **Incorrect Cable:** Ensure the balance cable's cell count matches the battery's cell count.
- **Poor Connection:** Check that the JST XH connector is fully seated in both the battery and the charger/adaptor.
- **Damaged Cable:** Inspect the cable for any visible damage (frayed wires, bent pins). A damaged cable may not transmit signals correctly.
- **Polarity Issue:** Verify that the bare wire ends are connected with correct polarity to your charging board/charger.

7.2 Imbalanced Cells During Charging

- **Cable Integrity:** While rare, internal wire breaks can occur. Try a different balance cable of the same cell count if available.
- **Battery Issue:** The imbalance might be due to the battery itself, not the cable. Consult your battery's manual or test the battery with a known good setup.

If issues persist after troubleshooting, consult with a qualified technician or contact Youme Power support.

8. WARRANTY AND SUPPORT

Youme Power products are manufactured to high standards. For warranty information or technical support, please refer to the seller's return policy or contact Youme Power directly through their official channels. Keep your purchase receipt as proof of purchase.

Manufacturer: Youme

Brand: Youme Power

Country of Origin: China



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