

## Nuofany XT90H

# Nuofany XT90H Parallel Battery Connector Cable User Manual

Model: XT90H | Brand: Nuofany

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective use of the Nuofany XT90H Parallel Battery Connector Cable. This cable is designed to connect two LiPo batteries in parallel to a single electronic speed controller (ESC) or other electronic device, effectively doubling the capacity while maintaining the same voltage. It is primarily intended for use with RC quadcopters, multirotors, helicopters, airplanes, and boats.

## 2. PRODUCT FEATURES

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- **Connector Type:** XT90 Connectors (1 Male, 2 Female)
- **Configuration:** Parallel power distribution cable
- **Input:** One XT90H male connector for battery output
- **Output:** Two XT90H female connectors for ESC or other electronic devices
- **Wire Gauge:** 10AWG Soft Silicone Wire
- **Wire Length:** Approximately 100 mm
- **Application:** Suitable for RC quadcopters, multirotors, helicopters, airplanes, boats, and other RC power systems.

## 3. PACKAGE CONTENTS

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The package includes the following item:

- 1 x Nuofany XT90H Parallel Connector Cable (1 Male to 2 Female)

## 4. SAFETY GUIDELINES

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Always observe the following safety precautions when handling LiPo batteries and electrical connectors:

- Ensure all connections are secure and free from damage before use.
- Never short-circuit the connectors.
- Only connect batteries with identical specifications (voltage, capacity, discharge rate) when using a parallel connector. Connecting dissimilar batteries can lead to overcharging, overheating, or damage.
- Keep connectors away from water and moisture.
- Store in a cool, dry place.
- Handle with care to avoid damaging the wires or connectors.

## 5. SETUP AND INSTALLATION

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The XT90H Parallel Battery Connector Cable simplifies the process of connecting two batteries in parallel. Follow these steps for proper setup:

1. **Prepare Batteries:** Ensure both LiPo batteries are fully charged and have identical specifications (voltage, capacity, C-rating).
2. **Connect Batteries:** Plug the XT90 male connectors from your two batteries into the two XT90 female connectors on the parallel cable. Ensure a firm and secure connection.
3. **Connect to Device:** Plug the single XT90 male connector of the parallel cable into the XT90 female input of your electronic speed controller (ESC) or other RC device.
4. **Verify Connection:** Double-check all connections to ensure they are secure and correctly oriented.



Figure 1: Overall view of the Nuofany XT90H Parallel Battery Connector Cable. This image displays the cable with one male XT90 connector splitting into two female XT90 connectors, featuring red and black 10AWG silicone wires.



Figure 2: Close-up view of the two XT90 female connectors on the parallel cable. These connectors are designed to receive the male XT90 plugs from your batteries.

## 6. OPERATION

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Once the parallel connector cable is properly installed, the connected batteries will provide combined capacity to your RC device. The voltage will remain the same as a single battery, but the available run time will be extended due to the increased total capacity.

- Always monitor battery levels during operation.
- Disconnect batteries from the parallel cable and device when not in use.
- Avoid over-discharging LiPo batteries, as this can cause permanent damage.

## 7. MAINTENANCE

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Proper maintenance ensures the longevity and reliability of your connector cable:

- **Inspection:** Regularly inspect the cable and connectors for any signs of wear, fraying, cracks, or corrosion.
- **Cleaning:** Keep the connectors clean and free of dirt, dust, or debris. Use a dry, soft cloth for cleaning.
- **Storage:** Store the cable in a clean, dry environment, away from extreme temperatures and direct sunlight.
- **Avoid Stress:** Do not pull on the wires to disconnect; always grasp the connector housing.

## 8. TROUBLESHOOTING

If you encounter issues, consider the following common troubleshooting steps:

- **No Power:** Ensure all connectors are fully seated and making good contact. Check if the batteries are charged and functional.
- **Intermittent Connection:** Inspect connectors for bent pins or debris. Ensure wires are not damaged or loose.
- **Overheating:** If connectors or wires become excessively hot, immediately disconnect and inspect for short circuits or overloaded conditions. Ensure batteries are matched.

## 9. SPECIFICATIONS

Attribute	Detail
Brand	Nuofany
Model	XT90H Parallel Connector Cable
Connector Type	XT90 (1 Male to 2 Female)
Wire Gauge	10AWG Soft Silicone Wire
Wire Length	Approximately 100 mm
Material	Metal (connectors)
Product Dimensions (L x W x H)	0.1 x 0.1 x 0.1 inches
Item Weight	1.13 ounces
Manufacturer Recommended Age	12 months - 8 years

## 10. WARRANTY AND SUPPORT

For information regarding warranty, returns, or technical support, please refer to the manufacturer's official website or contact the seller directly. Keep your purchase receipt for warranty claims.

