

## DOKIO Solar Panel-Cable

# DOKIO XT60 Extension Cable (19.7 ft / 6 m) User Manual

Model: Solar Panel-Cable

## 1. INTRODUCTION

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The DOKIO XT60 Extension Cable is designed to extend the reach of your solar panels, allowing for flexible placement and connection to 12V/24V batteries, charge controllers, or portable power stations. This 19.7 ft (6 meter) male-to-female XT60 cable features a flexible PVC copper wire construction for easy routing and stable power transmission.

## 2. SAFETY INFORMATION

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- Ensure all connections are secure before applying power.
- Keep connectors dry and away from water to prevent electrical hazards and corrosion.
- Do not exceed the cable's rated voltage (DC 500V) or current (30A continuous, 60A instantaneous).
- Avoid sharp bends or kinks in the cable that could damage the internal wiring.
- Inspect the cable regularly for any signs of damage, wear, or exposed wires. Discontinue use if damage is found.

## 3. PRODUCT OVERVIEW

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### Package Contents

- 1 x DOKIO XT60 Male-to-Female Extension Cable (19.7 ft / 6 m)

## Key Features

- **Flexible and Easy-to-Route:** Copper cable designed for smooth bending and hassle-free installation in various environments.
- **Extended Reach:** Provides 19.7 ft (6 meters) of extension, allowing optimal placement of solar panels in direct sunlight while keeping power stations or batteries in shaded areas.
- **XT60 Interface:** Compatible with devices utilizing standard XT60 connectors.
- **Stable Power Flow:** Features thick PVC insulation to minimize voltage drop and heat buildup, ensuring consistent 12V/24V charging performance.
- **Durable Construction:** Built for outdoor use with high conductivity, oxidation resistance, low resistance, and corrosion resistance.



Image: The DOKIO XT60 Extension Cable, coiled to show its length and flexibility, with both male and female XT60 connectors visible.

# LONGER CABLE **19.7FT(6M)**



Image: A close-up view of the XT60 male and female connectors, highlighting their design.



High Conductivity



Oxidation Resistance



Low Resistance



Corrosion Resistance



Not Easy to Break



Ultra Flexible soft

Image: Graphic illustrating the key features of the cable, including high conductivity, oxidation resistance, low resistance, corrosion resistance, durability, and flexibility.

# HIGH QUALITY CONNECTORS

Our connectors can be bent at any angle without deformation, making them more durable than other connectors.

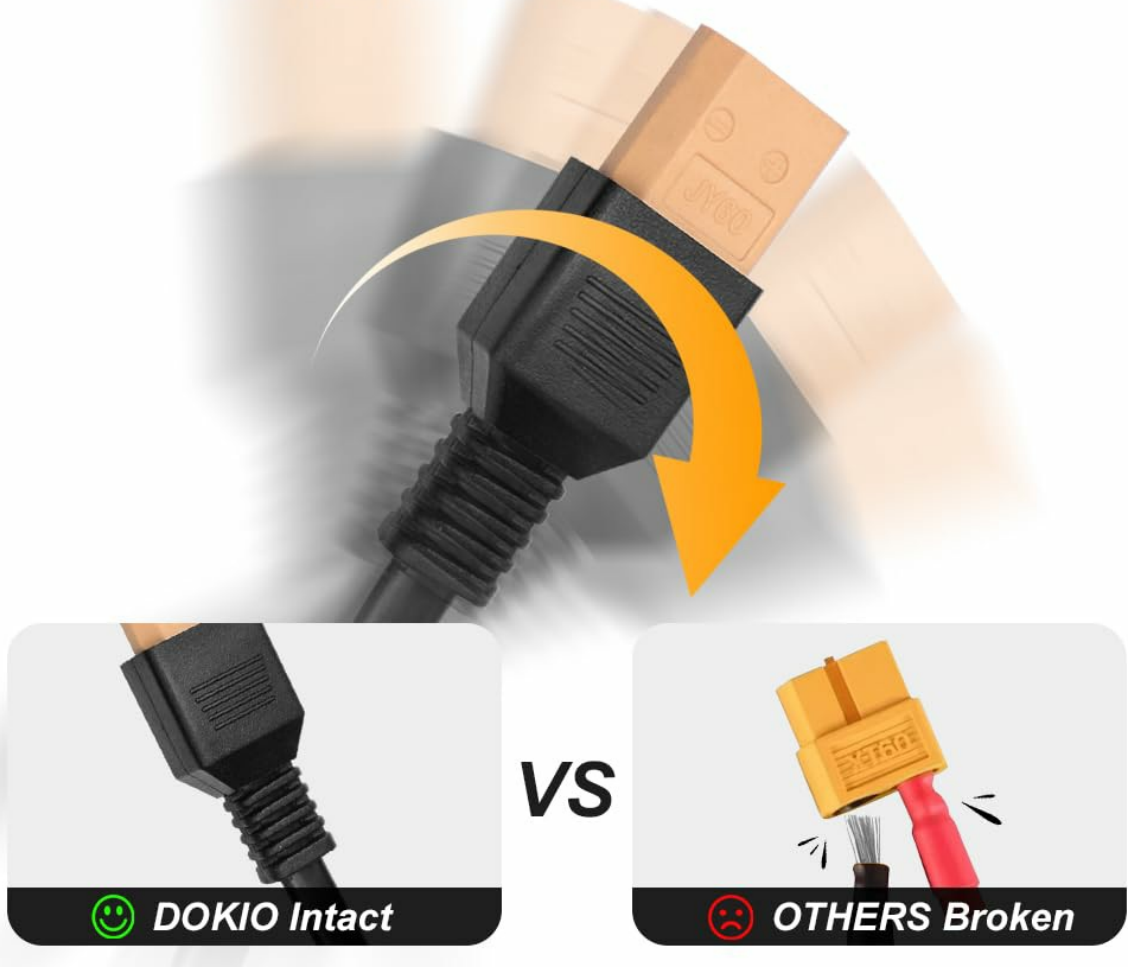


Image: Comparison showing the durability and bend flexibility of DOKIO's XT60 connectors versus other, less robust connectors.

## 4. SPECIFICATIONS

Attribute	Detail
Brand	DOKIO
Model Name	Solar Panel-Cable
Connector Type	XT60
Cable Type	XT60 Extension Cord
Connector Gender	Male-to-Female
Length	19.7 ft (6 m)
Compatible Devices	12V/24V Battery, Solar Panels, Power Stations, Controllers

Rated Voltage	DC 500V
Rated Current	30A
Instantaneous Current	60A
Flame Retardant Grade	UL94 VO
Contact Resistance	0.55mΩ
Insulation Material	PA
Outer Material	Silicone Rubber
Operating Temperature	-20°C to 120°C (-4°F to 248°F)
Product Dimensions	240 x 0.36 x 0.36 inches (approx. 609.6 x 0.91 x 0.91 cm)
Item Weight	14 ounces (approx. 397 grams)



**XT60 / JY60**

**Rated voltage: DC 500V**

**Rated current: 30A**

**Flame retardant grade: UL94 VO**

**Instantaneous current: 60A**

**Contact resistance: 0.55mQ**

**Insulation material: PA**

**Number off uses: 1000**

**Metal material: copper gold paleted**

**Operating temperature: -20°C-120°C**

Image: Detailed technical specifications for the XT60 / JY60 cable, including rated voltage, current, and material properties.

## 5. SETUP

This extension cable is designed for straightforward plug-and-play use. Ensure your solar panel and receiving device (power station, battery, or controller) both utilize XT60 connectors.

### Connection Steps:

1. Locate the XT60 output connector on your solar panel.
2. Connect the male end of the DOKIO XT60 Extension Cable to the XT60 output of your solar panel.
3. Connect the female end of the DOKIO XT60 Extension Cable to the XT60 input of your power station, battery charge controller, or 12V/24V battery system.
4. Ensure all connections are firm and fully seated to prevent intermittent power flow or disconnections.

# HOW TO USE 19.7FT (6M) CABLE

## 1 For Power Station



## 2 For 12v Battery

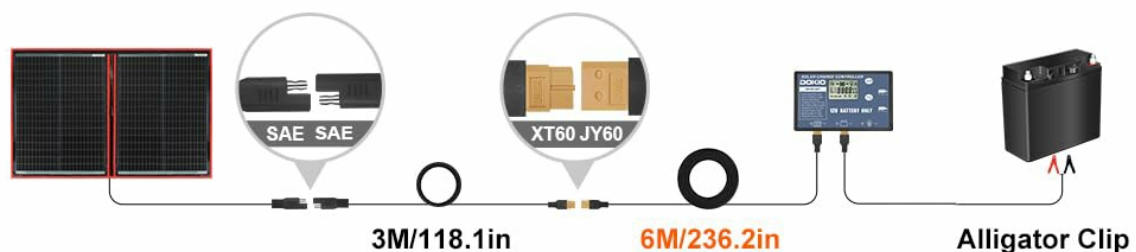


Image: Diagram illustrating connection methods for the 19.7ft (6m) cable, showing setups for both a power station and a 12V battery system.

### Extending Cable Length (Optional)

For even greater reach, this 6m (19.7ft) cable can be combined with other compatible extension cables (e.g., a 3m/9.84ft cable) to achieve a total length of up to approximately 9m (29.4ft). This allows for

maximum flexibility in positioning your solar panels.

**LONGER CABLE 29.4FT (9M)**  
**9.84FT (3M) + 19.7FT (6M) = 29.4FT (9M)**

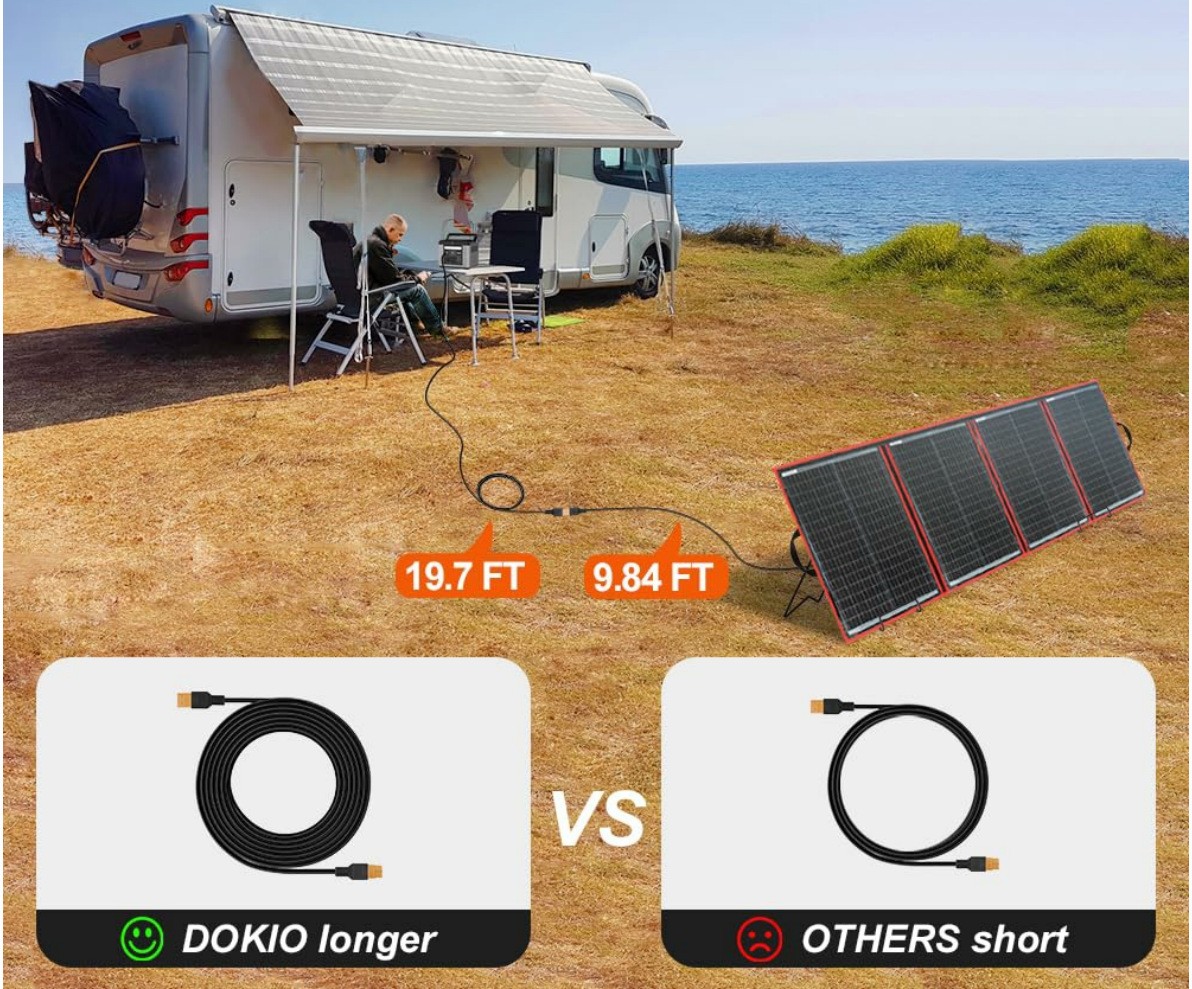


Image: An outdoor scene demonstrating the use of a longer cable setup (29.4ft / 9m) to connect solar panels to an RV, allowing the panels to be placed in optimal sunlight.

# LONGER CABLE **29.4FT (9M)**

**9.84FT (3M) + 19.7FT (6M) = 29.4FT (9M)**



Image: Another view of the 29.4ft (9m) cable setup with an RV and solar panels, illustrating the path of power flow from the panels to the power source.

## 6. OPERATING INSTRUCTIONS

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Once connected, the DOKIO XT60 Extension Cable facilitates the transfer of power from your solar panel to your connected device. No specific operational steps are required for the cable itself beyond proper connection.

- Ensure your solar panel is positioned to receive maximum sunlight.
- Monitor your power station or battery charge controller to confirm that power is being received and charging is active.
- While the cable is designed to minimize voltage drop, longer cable runs can result in some power loss. Consider this when planning your setup, especially for high-power applications.

## 7. MAINTENANCE

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- **Cleaning:** Wipe the cable and connectors with a dry, clean cloth if they become dirty. Do not use harsh chemicals or abrasive materials.
- **Storage:** When not in use, coil the cable neatly and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check the cable and connectors for any signs of damage, such as cuts, cracks, fraying, or corrosion. Ensure the XT60 connectors remain clean and free of debris.
- **Moisture Protection:** Always keep the connectors dry. If they become wet, ensure they are completely dry before making any connections.

## 8. TROUBLESHOOTING

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### No Power Flow / Intermittent Connection

- **Check Connections:** Ensure both the male and female XT60 connectors are fully inserted and secure.
- **Verify Compatibility:** Confirm that your solar panel and receiving device both use standard XT60 connectors.
- **Inspect Cable:** Look for any visible damage to the cable or connectors. A damaged cable should not be used.
- **Environmental Factors:** Ensure connectors are dry and free from dirt or debris.
- **Test Components Separately:** If possible, test your solar panel and power station/controller with their original cables to isolate the issue.

## 9. WARRANTY AND SUPPORT

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DOKIO is committed to providing reliable solar solutions. If you encounter any issues with your XT60 Extension Cable, please contact DOKIO customer support directly. We aim to provide fast solutions, often without the need for product returns.

For support, refer to the contact information provided with your purchase or visit the official DOKIO website.

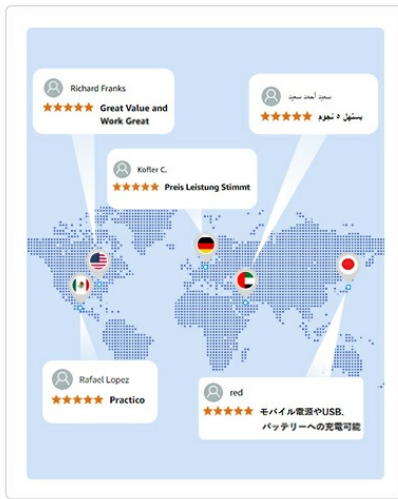


Image: A customer support representative with a headset, symbolizing available assistance for product issues.