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› DIYables USB Type C Cable for Arduino Uno R4 - Instruction Manual

DIYables USB Type C Cable

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1. PRODUCT OVERVIEW

This manual provides instructions for the DIYables USB Type C Cable, designed for reliable data transfer and power supply. This package includes two (2) USB-A to USB-C cables, each 30 cm (11.8 inches) in length. These cables are ideal for connecting various devices, including Arduino Uno R4 WiFi, Arduino Uno R4 Minima, ESP32 boards with a USB Type-C interface, and other compatible devices, to a personal computer.



Image 1: Full view of the DIYables USB Type C Cable, showing its blue transparent jacket and both USB-A and USB-C connectors.

2. PRODUCT FEATURES

- **Quantity:** Two (2) USB Type-C Cables included.

- **Primary Use:** Powers and uploads code to Arduino Uno R4 WiFi and Minima boards.
- **Compatibility:** Also functions with ESP32 boards featuring a USB Type-C interface.
- **Data Transfer:** Facilitates data exchange between a personal computer and any device supporting USB Type-C.
- **Functionality:** Designed as a USB Type C Data Sync Cable.
- **Special Feature:** Supports fast charging for compatible devices.

3. SETUP AND CONNECTION

Follow these steps to connect your device using the DIYables USB Type C Cable:

1. **Identify Connectors:** Locate the USB-A connector (standard rectangular end) and the USB Type-C connector (smaller, reversible end) on the cable.
2. **Connect to Computer:** Insert the USB-A end of the cable into an available USB port on your personal computer.
3. **Connect to Device:** Insert the USB Type-C end of the cable into the corresponding USB Type-C port on your Arduino Uno R4, ESP32 board, or other compatible device.
4. **Driver Installation (if necessary):** For certain development boards like Arduino, ensure that the necessary drivers are installed on your computer. These are typically included with the Arduino IDE or can be downloaded from the manufacturer's website.

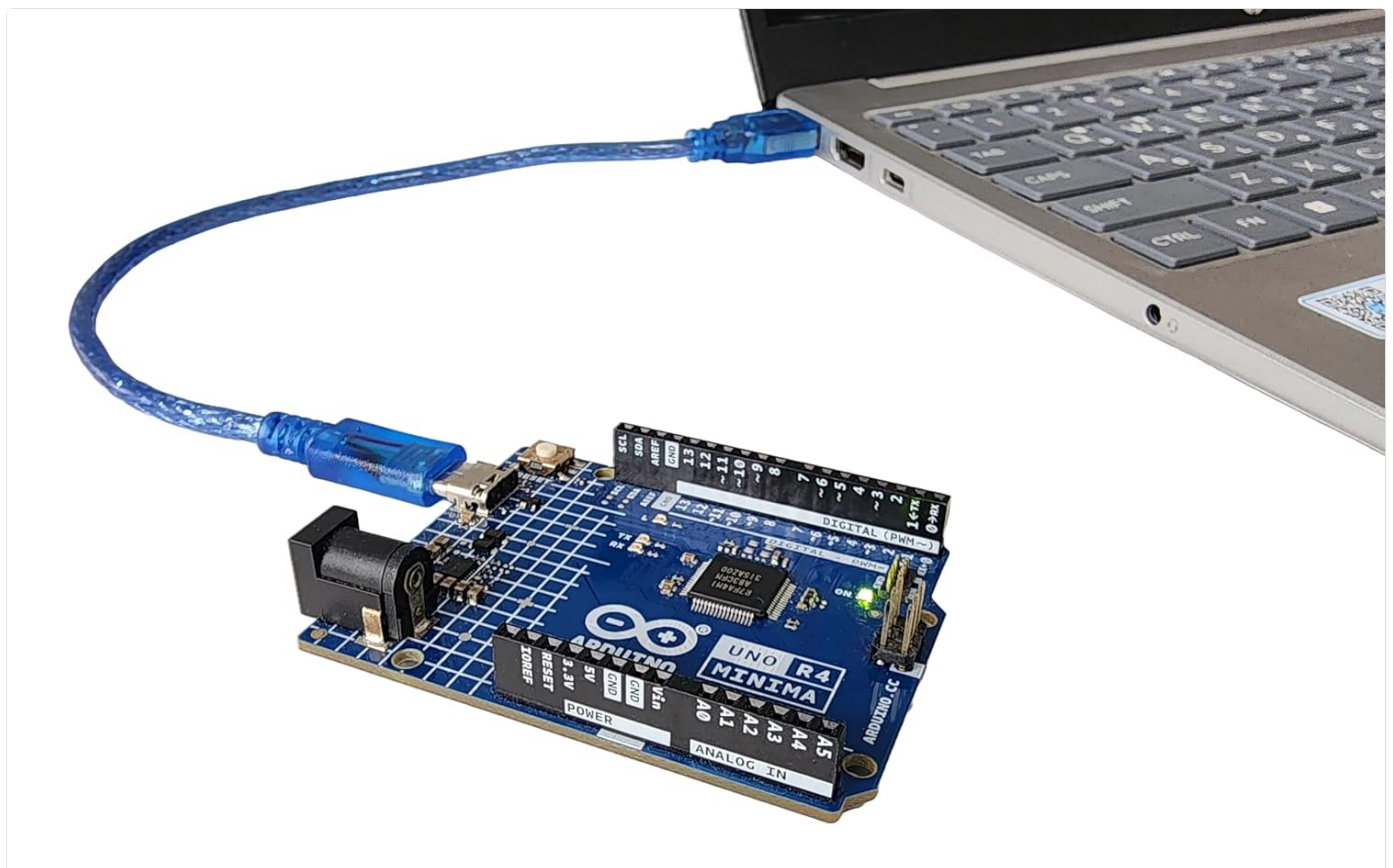


Image 2: The USB Type C Cable connected from a laptop's USB-A port to an Arduino Uno R4 Minima board's USB-C port, illustrating a typical setup for power and data transfer.

4. OPERATING INSTRUCTIONS

Once connected, the cable facilitates two primary functions:

- **Power Supply:** The cable delivers power from your computer's USB port to the connected device. This is essential for operating development boards like the Arduino Uno R4 or ESP32.

- **Data Transfer and Code Upload:** The cable enables bidirectional data communication. For development boards, this means you can upload compiled code (sketches) from your computer to the board and receive serial data output from the board for debugging or monitoring.

To upload code to an Arduino board, open your Arduino IDE, select the correct board and port from the "Tools" menu, and then click the "Upload" button. For data transfer with other USB-C devices, ensure the device is configured for data sync mode if applicable.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your DIYables USB Type C Cable, observe the following care guidelines:

- **Avoid Bending:** Do not excessively bend or kink the cable, especially near the connectors, as this can damage internal wires.
- **Proper Storage:** When not in use, coil the cable loosely and store it in a dry, clean environment away from direct sunlight and extreme temperatures.
- **Handle Connectors Carefully:** Always grasp the connector housing when plugging or unplugging the cable, rather than pulling on the cable itself.
- **Keep Clean:** Periodically inspect connectors for dust or debris and clean gently with a dry, soft cloth if necessary.

6. TROUBLESHOOTING

If you encounter issues with your USB Type C Cable, consider the following troubleshooting steps:

- **Device Not Recognized:**
 - Ensure both ends of the cable are securely connected.
 - Try connecting the cable to a different USB port on your computer.
 - Test the cable with another compatible device or try a different USB cable with your current device to isolate the issue.
 - Verify that all necessary drivers for your connected device (e.g., Arduino board) are correctly installed on your computer.
- **No Power Delivery:**
 - Check if the USB port on your computer is functioning correctly by connecting another device.
 - Ensure the connected device itself is not faulty or requiring more power than the USB port can supply.
- **Slow Data Transfer:**
 - Confirm that both your computer's USB port and the connected device support the expected data transfer speeds.
 - Avoid using USB hubs if possible, or try connecting directly to a computer port.

7. SPECIFICATIONS

Attribute	Detail
Brand	DIYables
Connector Type	USB Type C (to device), USB Type A (to host)

Cable Type	USB Data Sync Cable
Compatible Devices	Personal Computer, Arduino Uno R4 WiFi, Arduino Uno R4 Minima, ESP32 boards with USB Type-C interface, and other USB Type-C enabled devices.
Special Feature	Fast Charging support
Length	30 cm (11.8 inches)
Quantity	2 Pieces

8. WARRANTY AND SUPPORT

DIYables products are designed for reliability and performance. This product is covered by a 30-day return policy from the date of purchase, allowing for refunds or replacements in case of defects or dissatisfaction.

For further assistance, technical support, or warranty claims, please refer to the seller's contact information on the product's purchase platform or visit the official DIYables store on Amazon:

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

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