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› ORICO 80Gbps Bidirectional USB-C Cable (Model TBZ5) User Manual

ORICO TBZ5

ORICO 80Gbps Bidirectional USB-C Cable User Manual

Model: TBZ5

1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your ORICO 80Gbps Bidirectional USB-C Cable. Designed for high-performance connectivity, this cable supports advanced data transfer, video output, and power delivery functionalities. Please read this manual thoroughly to ensure optimal performance and longevity of your product.



Image of the ORICO 80Gbps Bidirectional USB-C Cable, showcasing its design and USB-C connectors.

2. PRODUCT OVERVIEW

The ORICO 80Gbps Bidirectional USB-C Cable is engineered for demanding applications, offering a versatile solution for modern computing needs. Key features include:

- **High-Speed Data Transfer:** Supports 80Gbps bidirectional data transfer and up to 120Gbps unidirectional video bandwidth.
- **Dual 8K Video Output:** Capable of driving dual 8K displays at 60Hz, utilizing DisplayPort 2.1 protocol.
- **240W Power Delivery:** Provides up to 240W of power for rapid charging of compatible devices.
- **Wide Compatibility:** Fully compatible with Thunderbolt 5, Thunderbolt 4, Thunderbolt 3, USB4, and USB 3.2 devices.
- **Integrated E-Marker Chip:** Ensures intelligent power distribution and safe operation.
- **Durable Construction:** Features a silver-plated copper core and multi-layer shielding for enhanced performance.

and longevity.

E-Marker Chip Safe Non-invasive



80Gbps

Bidirectional



8K@60Hz

Dual Displays



240W

Fast Charging

Close-up view of the ORICO USB-C cable connectors, highlighting the integrated E-Marker chip and key specifications: 80Gbps bidirectional data, dual 8K@60Hz video support, and 240W fast charging.

3. SETUP INSTRUCTIONS

Connecting your ORICO USB-C cable is straightforward. Follow these steps for proper setup:

1. **Identify Compatible Ports:** Ensure your devices (laptop, monitor, docking station, etc.) have a compatible USB-C port that supports Thunderbolt 3/4/5, USB4, or a fully functional USB-C standard. Refer to your device's manual for port specifications.
2. **Connect the Cable:** Insert one end of the ORICO USB-C cable into the USB-C port of your host device (e.g., laptop).
3. **Connect to Peripheral:** Insert the other end of the cable into the USB-C port of your peripheral device (e.g., external monitor, docking station, external SSD, charger).
4. **Verify Connection:** Once connected, your devices should automatically detect the connection. For video output, ensure your display input is set to the correct USB-C or Thunderbolt port.



Diagram illustrating compatible and incompatible port types for the ORICO USB-C cable, showing Thunderbolt 5/4/3, USB4, and USB-C (Fully Functional) as compatible, and DisplayPort, Thunderbolt 2, HDMI, and USB-A as incompatible.

4. OPERATING INSTRUCTIONS

The ORICO USB-C cable facilitates three primary functions: data transfer, video output, and power delivery.

4.1 Data Transfer

This cable supports bidirectional data transfer speeds of up to 80Gbps. This allows for rapid transfer of large files between compatible devices such as external SSDs, docking stations, and computers.

Ultra High Speed Transfer

80Gbps

Bidirectional

120Gbps Unidirectional



*Data is based on tests conducted in the ORICO 211 Digital R&D and Manufacturing Laboratory and is subject to actual use.

Diagram illustrating the ORICO USB-C cable's data transfer capabilities, showing 80Gbps bidirectional speed and up to 120Gbps unidirectional bandwidth, compared to standard Thunderbolt 4.

4.2 Video Output

Leveraging DisplayPort 2.1 protocol, the cable can support dual 8K displays at a 60Hz refresh rate. Connect your host device to compatible 8K monitors for an immersive visual experience.

Dual 8K@60Hz Displays



An illustration of a user working with a laptop connected via the ORICO USB-C cable to two external 8K monitors, demonstrating its dual 8K@60Hz video output capability.

4.3 Power Delivery

The cable delivers up to 240W of power, enabling rapid charging for high-power devices such as laptops, tablets, and external graphics docks. The integrated E-Marker chip intelligently manages power flow for safe and efficient charging.

- For optimal charging performance, it is recommended to remove thick protective cases from devices during charging to ensure proper heat dissipation and connection.

240W Rapid Charging

For Optimal Charging: Remove thick cases during charging



MacBook Pro (MM3)

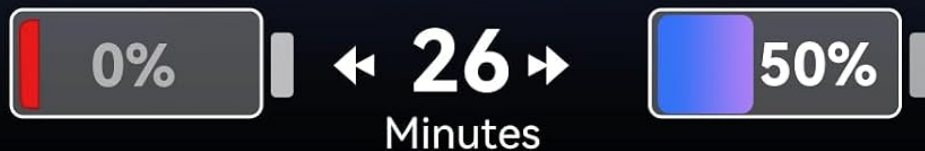


Image showing the ORICO USB-C cable connected to a laptop, illustrating its 240W rapid charging capability and a charging speed example (0% to 50% in 26 minutes for a MacBook Pro).

5. MAINTENANCE

To ensure the longevity and optimal performance of your ORICO USB-C cable, please follow these maintenance guidelines:

- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures. Avoid tightly

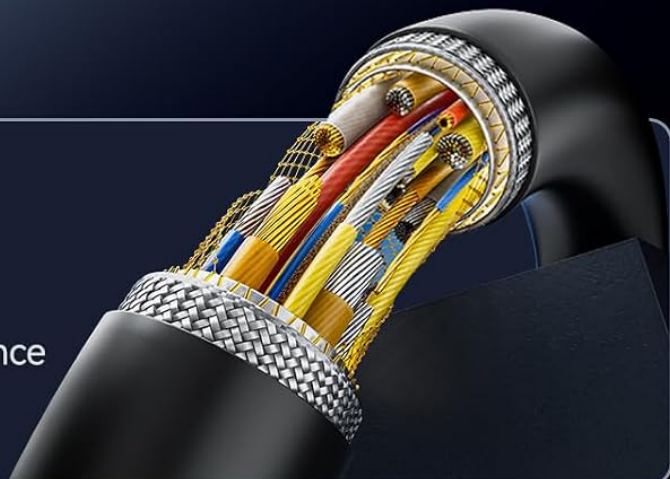
coiling or bending the cable at sharp angles, which can damage internal wires.

- **Cleaning:** Use a soft, dry cloth to gently wipe the cable and connectors. Avoid using harsh chemicals or abrasive materials.
- **Handling:** Always grasp the connector head when plugging or unplugging the cable, rather than pulling on the cable itself. This prevents strain on the connection points.
- **Inspection:** Periodically inspect the cable for any signs of wear, fraying, or damage to the connectors. Discontinue use if any damage is observed.

Ultra-Stable Multi-Layer Shielding



Silver-plated copper core
design with ultra-low resistance
for efficient transmission



Detailed view of the ORICO USB-C cable's internal structure, highlighting its ultra-stable multi-layer shielding and silver-plated copper core for efficient and reliable transmission.

6. TROUBLESHOOTING

If you encounter issues with your ORICO USB-C cable, refer to the following common troubleshooting steps:

- **No Data Transfer/Slow Speeds:**
 - Ensure both connected devices support the required USB or Thunderbolt standard for high-speed transfer.
 - Verify the cable is securely plugged into both ports.
 - Test with another compatible cable or device to isolate the issue.
- **No Video Output/Flickering Display:**
 - Confirm your host device and monitor support DisplayPort 2.1 and 8K@60Hz resolution.
 - Check monitor input settings to ensure the correct USB-C/Thunderbolt input is selected.
 - Ensure the cable is fully inserted into both video ports.
 - Update graphics drivers on your host device.
- **No Charging/Slow Charging:**
 - Verify your power adapter and device support 240W Power Delivery.
 - Ensure the cable is firmly connected to both the power source and the device.
 - Remove any thick cases from your device that might obstruct the connector or cause overheating.
 - Test with a different power adapter or device if possible.
- **Intermittent Connection:**
 - Check for any physical damage to the cable or connectors.
 - Ensure ports on both devices are clean and free of debris.

If the issue persists after attempting these steps, please contact ORICO customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Model	TBZ5
Data Transfer Speed	80Gbps Bidirectional, 120Gbps Unidirectional
Video Output	Dual 8K@60Hz (DisplayPort 2.1)
Power Delivery	Up to 240W
Connector Type	USB Type C
Cable Type	USB
Cable Length	3.3 FT (1 meter)

Compatibility	Thunderbolt 5/4/3, USB4, USB 3.2, MacBook Pro, iPad Pro, iPhone 15, Docking Station, Laptop, Tablet
Special Features	E-Marker Chip, Silver-plated Copper Core, Multi-layer Shielding
Manufacturer	SHENZHEN ORICO TECHNOLOGIES CO.,LTD
ASIN	B0F5PWTPLN

Wide Compatibility

Charging:



Computer



Tablet



Cell Phone



Power Bank

Data:



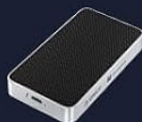
Computer



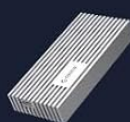
Tablet



Cell Phone



Mobile Hard Disk



Hard disk enclosure

Video:



TV



Monitor



Computer



Projector



Player



Infographic displaying the wide compatibility of the ORICO USB-C cable for charging, data transfer, and video output with various devices including computers, tablets, cell phones, and external storage.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ORICO website or contact ORICO customer service directly. Details regarding product warranty periods and support procedures can typically be found on the manufacturer's official channels.

You can visit the [ORICO Store on Amazon](#) for more product information and support options.

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