PTC USBR2-15M

PTC USB 2.0 Active Repeater/Extension Cable (49 ft) Instruction Manual

1. Introduction

Thank you for choosing the PTC USB 2.0 Active Repeater/Extension Cable. This cable is designed to extend the reach of your USB 2.0 devices beyond standard length limitations, ensuring reliable data transmission over longer distances. It incorporates a built-in signal amplification chipset to maintain signal integrity and high-speed data rates up to 480 Mbps. This manual provides essential information for proper setup, operation, and maintenance of your cable.

2. Product Features

- **High Speed USB 2.0 Certified:** Ensures compatibility and optimal performance with USB 2.0 devices.
- **Data Rate:** Supports high-speed USB 2.0 data rates of up to 480 Mbps.
- **Built-in Signal Amplification:** Features an integrated chipset to maintain signal and data integrity over extended distances.
- **Plug and Play:** True plug-and-play functionality with no external power required for most applications.
- **Connectors:** Equipped with USB Type A Male to Female connectors for easy extension.
- **Daisy-Chain Capability:** Multiple units can be connected in series to achieve even longer extensions.

3. Setup Instructions

Follow these steps to properly set up your PTC USB 2.0 Active Repeater/Extension Cable:

1. **Identify Connectors:** Locate the USB Type A Male connector (plugs into your computer/host device) and the USB Type A Female connector (where you plug in your USB device).
2. **Connect to Host:** Plug the USB Type A Male end of the PTC extension cable into an available USB port on your computer or host device.
3. **Connect USB Device:** Plug your USB device (e.g., printer, webcam, external hard drive) into the USB Type A Female end of the PTC extension cable.

4. **System Recognition:** Your operating system should automatically detect and install any necessary drivers for the extension cable. This process is typically automatic and requires no user intervention.



Figure 1: Close-up view of the PTC USB 2.0 Active Repeater/Extension Cable, highlighting the USB Type A Male connector and the active repeater module with its USB Type A Female port. This image illustrates the primary connection points for the cable.



Figure 2: Two PTC USB 2.0 Active Repeater/Extension Cables, coiled to show their substantial length. Each cable features an integrated repeater module, visible along the cable's path, which is crucial for maintaining signal strength over long distances.

4. Operating Instructions

Once connected, the PTC USB 2.0 Active Repeater/Extension Cable operates transparently, extending the reach of your USB devices without requiring additional software or configuration.

- **Data Transfer:** Data will transfer between your host device and the connected USB peripheral at speeds up to 480 Mbps, consistent with USB 2.0 specifications.
- **Daisy-Chaining:** For applications requiring even greater distances, multiple PTC USB 2.0 Active Repeater/Extension Cables can be connected in series. Ensure that the total length and power requirements of connected devices do not exceed the capabilities of the USB host port.
- **Power Considerations:** The cable is designed to draw power directly from the USB host port and typically does not require an external power supply. However, for high-power USB devices or when daisy-chaining multiple cables, using a powered USB hub at the device end may be beneficial to ensure stable operation.

5. Maintenance

To ensure the longevity and optimal performance of your PTC USB 2.0 Active Repeater/Extension Cable, follow these simple maintenance guidelines:

- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** If necessary, gently wipe the cable and connectors with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Handling:** Avoid bending the cable sharply or placing heavy objects on it, as this can damage the internal wiring and signal amplification components.
- **Connector Care:** Keep the USB connectors free from dust and debris.

6. Troubleshooting

If you encounter issues with your PTC USB 2.0 Active Repeater/Extension Cable, refer to the following troubleshooting tips:

- **Device Not Recognized:**
  - Ensure both ends of the extension cable are securely connected.
  - Try connecting the USB device directly to your computer's USB port to verify the device itself is functioning.
  - Connect the extension cable directly to a USB port on your computer, rather than through an unpowered USB hub, as some hubs may not provide sufficient power for the active repeater.
  - Test with a different USB port on your computer.
- **Intermittent Connection or Slow Data Transfer:**
  - Verify that the connected USB device is USB 2.0 compatible.
  - If daisy-chaining multiple cables, try reducing the number of chained cables or using a powered USB hub at the device end.
  - Ensure the cable is not excessively bent or damaged.
- **No Power to Device:**
  - While the cable is self-powered, some high-power USB devices may require more power than a single USB port can provide over an extended length. Consider using a powered USB hub at the device end of

the extension cable.

7. Specifications

Brand	PTC
Model Number	USBR2-15M
Cable Type	USB 2.0 Active Repeater/Extension Cable
Length	49 feet (approximately 15 meters)
Connectors	USB Type A Male to USB Type A Female
Data Transfer Rate	Up to 480 Mbps (USB 2.0 High Speed)
Special Feature	Built-in Signal Amplification Chipset
Color	Black
Compatible Devices	Most devices with a USB 2.0 or newer port

8. Warranty and Support

PTC stands behind the quality of its products. This PTC USB 2.0 Active Repeater/Extension Cable is backed by a **Lifetime Warranty**, ensuring peace of mind for your purchase.



Figure 3: Official PTC Lifetime Warranty seal, indicating the product's long-term reliability and manufacturer support.

For technical support, warranty claims, or any questions regarding your PTC product, please refer to the contact information provided with your purchase or visit the official PTC website. When contacting support, please have your product model number (USBR2-15M) and purchase details readily available.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question