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› Black Box Corporation 7FT Red CAT6 250MHz Ethernet Patch Cable S/UTP CM Molded User Manual

Black Box B07GX7PNRX

Black Box Corporation 7FT Red CAT6 250MHz Ethernet Patch Cable User Manual

Model: B07GX7PNRX

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Black Box Corporation 7FT Red CAT6 250MHz Ethernet Patch Cable. This cable is designed for reliable high-speed data transmission in various network environments, including data centers and desktop connections, offering enhanced performance and reduced interference through its shielded construction.

2. SETUP AND CONNECTION

The Black Box CAT6 Ethernet Patch Cable is designed for straightforward plug-and-play installation. Follow these steps to establish a network connection:

- 1. Identify Ports:** Locate the RJ45 Ethernet ports on your network devices (e.g., computer, router, switch, modem, network wall jack). These ports are typically rectangular and slightly wider than a phone jack.
- 2. Insert Connector 1:** Gently insert one end of the Black Box CAT6 cable's RJ45 connector into the Ethernet port of your first device. Ensure it clicks securely into place.
- 3. Insert Connector 2:** Insert the other end of the cable's RJ45 connector into the Ethernet port of your second device. Again, ensure it clicks securely.
- 4. Verify Connection:** Most network devices have LED indicators near the Ethernet port that illuminate or flash when a successful connection is established and data is being transmitted.

The cable is compatible with any device featuring a standard RJ45 Ethernet port, including PCs, laptops, network printers, gaming consoles, and other network-enabled equipment.



This image displays the end of the Black Box 7FT Red CAT6 Ethernet Patch Cable, highlighting the durable red cable jacket and the metallic RJ45 connector. The connector features a clear plastic housing for the pins and a flexible red strain relief boot, designed for secure and reliable network connections.

3. OPERATION

Once connected, the Black Box CAT6 Ethernet Patch Cable facilitates the transmission of data between your connected devices. As a Category 6 (CAT6) cable, it supports Gigabit Ethernet (1000BASE-T) and can handle frequencies up to 250 MHz, providing higher bandwidth and faster data transfer speeds compared to older cable categories.

The S/UTP (Screened/Unshielded Twisted Pair) construction, often referred to as shielded, helps to minimize electromagnetic interference (EMI) and radio-frequency interference (RFI) from external sources. This shielding is particularly beneficial in environments with high electrical noise, such as data centers or industrial settings, ensuring a more stable and reliable network connection.

4. MAINTENANCE

- Proper care of your Ethernet cable will ensure its longevity and consistent performance:
- **Avoid Sharp Bends:** Do not bend the cable sharply or crimp it, as this can damage the internal wires and shielding, leading to performance degradation or connection loss.
 - **Protect Connectors:** Keep the RJ45 connectors clean and free from dust or debris. Avoid pulling the cable by the wire; always grasp the connector housing when plugging or unplugging.
 - **Proper Storage:** When not in use, coil the cable loosely. Avoid tangling or knotting the cable.
 - **Environmental Conditions:** Keep the cable away from extreme temperatures, direct sunlight, and moisture.

5. TROUBLESHOOTING

If you encounter issues with your network connection, consider the following troubleshooting steps:

- **No Network Connection:**
 - Ensure both ends of the cable are securely plugged into their respective ports.
 - Try connecting the cable to a different port on your router/switch or computer.
 - Test with a different, known-working Ethernet cable to rule out issues with the Black Box cable.
 - Restart your network devices (router, modem, computer).
- **Slow Network Speed:**
 - Verify that all network devices (router, switch, network adapter) support the desired speed (e.g., Gigabit Ethernet).
 - Check for other network activity that might be consuming bandwidth.
 - Ensure the cable is not damaged or kinked.
 - Update network adapter drivers on your computer.
- **Intermittent Connection:**
 - Check for loose connections at both ends of the cable.
 - Ensure the cable is not running near sources of strong electromagnetic interference.
 - Inspect the cable for any visible damage to the jacket or connectors.

6. SPECIFICATIONS

Brand	Black Box
Model Number	B07GX7PNRX
Cable Type	CAT6 Ethernet Patch Cable
Length	7 Feet
Shielding	S/UTP (Screened/Shielded)
Frequency Support	Up to 250 MHz
Connector Type	RJ45
Color	Red
Compatible Devices	PC, Network Devices

7. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or product inquiries, please refer to the official Black Box Corporation website or contact their customer service directly. Keep your purchase receipt for warranty claims.

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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

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