

## Black Box JPM816A

# Black Box JPM816A 48-Port Network Patch Panel User Manual

Model: JPM816A

## 1. INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of the Black Box JPM816A 48-Port Network Patch Panel. This device is designed to provide a centralized, organized connection point for network cables in a structured cabling system, facilitating efficient network management and troubleshooting.

The JPM816A is a shielded CAT6 feed-through patch panel, ensuring reliable performance for high-speed network applications by minimizing electromagnetic interference.

## 2. SETUP

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### 2.1. Unpacking and Inspection

Carefully unpack the patch panel and inspect it for any signs of damage during transit. Ensure all components are present. If any damage is found or parts are missing, contact your supplier immediately.

### 2.2. Physical Installation (Rack Mounting)

The JPM816A patch panel is designed for standard 19-inch rack mounting. Follow these steps for secure installation:

1. Identify the desired rack unit (RU) space in your equipment rack.
2. Align the mounting ears of the patch panel with the rack posts.
3. Secure the patch panel to the rack using appropriate rack screws (not included). Ensure it is level and firmly attached to prevent movement.



*Image 1: Front view of the Black Box JPM816A 48-Port Network Patch Panel. The panel features 48 numbered RJ45 ports arranged in two rows of 24. The top row is numbered 1-24, and the bottom row is numbered 25-48. The panel is black with "BLACK BOX" and "Feed-Through CAT6" branding. It has mounting ears on both sides for rack installation.*

## 2.3. Cabling

Connect your network cables to the RJ45 ports on the front of the patch panel. The JPM816A is a feed-through panel, meaning it provides direct pass-through connections without requiring termination on the panel itself. Simply plug in your CAT6 cables from your network devices (e.g., computers, servers, switches) into the desired ports.

- Ensure all cables are CAT6 compliant for optimal performance.
- Use proper cable management techniques (e.g., cable ties, cable management panels) to keep cables organized and prevent strain on the ports.
- Label cables clearly at both ends to facilitate identification and troubleshooting.

## 3. OPERATION

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The Black Box JPM816A patch panel operates as a passive network component, serving as an interconnection point. Once installed and cabled, it requires no active configuration or power. Its primary function is to provide a flexible and organized way to connect network devices.

- **Port Identification:** Each of the 48 ports is clearly numbered (1-48) for easy identification and mapping to specific network devices or wall outlets.
- **Connectivity:** Connect network devices to the patch panel using standard RJ45 patch cables. The feed-through design allows for quick and easy connection and disconnection without re-terminating cables.
- **Flexibility:** The patch panel allows for easy rearrangement of network connections by simply moving patch cables, without disturbing the permanent cabling infrastructure.

## 4. MAINTENANCE

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Regular maintenance helps ensure the longevity and reliable performance of your patch panel.

- **Cleaning:** Periodically inspect the ports for dust or debris. Use compressed air or a lint-free cloth to gently clean the ports if necessary. Avoid using liquid cleaners directly on the ports.
- **Cable Management:** Ensure all cables connected to the patch panel are neatly organized and properly supported. Avoid excessive bending or tension on cables, which can lead to signal degradation or damage.
- **Physical Inspection:** Routinely check the patch panel for any signs of physical damage, loose

connections, or corrosion. Address any issues promptly.

## 5. TROUBLESHOOTING

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If you experience network connectivity issues, consider the following troubleshooting steps related to the patch panel:

- **No Connectivity:**

- Verify that both ends of the patch cable are securely plugged into the patch panel and the connected device/switch.
- Test the patch cable itself by swapping it with a known working cable.
- Ensure the permanent cabling connected to the rear of the feed-through ports is intact and properly connected.

- **Intermittent Connection:**

- Check for loose connections at the patch panel ports.
- Inspect cables for damage (kinks, cuts, severe bends).
- Ensure the patch panel is securely mounted and not subject to vibration.

- **Slow Network Speed:**

- Confirm that all components in the network path, including the patch panel and cables, are rated for CAT6 performance.
- Check for excessive cable length or poor quality cables.

If issues persist after performing these checks, consult a qualified network technician.

## 6. SPECIFICATIONS

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Feature	Detail
Model Number	JPM816A
Ports	48
Category	CAT6 Shielded
Type	Feed-Through
Product Dimensions	4.49 x 19.02 x 3.5 inches
Item Weight	4.19 pounds
Manufacturer	Black Box Corporation
Date First Available	February 21, 2015

## 7. WARRANTY INFORMATION

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For detailed warranty information regarding the Black Box JPM816A 48-Port Network Patch Panel, please refer to the official Black Box website or contact Black Box customer support directly. Warranty terms and conditions may vary and are subject to the manufacturer's policies at the time of purchase.

## 8. TECHNICAL SUPPORT

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If you require technical assistance or have questions not covered in this manual, please contact Black Box technical support.

**Black Box Customer Service:** [724-746-5500](tel:724-746-5500)

Additional support resources, including FAQs and product documentation, may be available on the official Black Box website.