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ICC IC110W1004

ICC IC110W1004 100 Pair 110 Term Connecting Block Kit User Manual

Model: IC110W1004 / IC-110W1-004

1. Product Overview

The ICC IC110W1004 is a 100-pair 110 Term Connecting Block Kit designed for telecommunications and data wiring applications. This kit provides the necessary connecting blocks to terminate all pairs on the included wiring block, facilitating organized and reliable cable management.



Image: The ICC IC110W1004 100 Pair 110 Term Connecting Block Kit, showing the main components for cable termination.

Package Contents:

- Twenty (20) 4-pair connecting blocks
- Four (4) 5-pair connecting blocks
- One (1) 100-pair wiring block

2. Setup and Installation

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by qualified personnel.

Tools Required:

- 110 Punch Down Tool

- Wire Strippers
- Cable Tester (optional, for verification)

Installation Steps:

1. **Mounting the Wiring Block:** Securely mount the 100-pair wiring block to a suitable surface (e.g., a patch panel, wall, or equipment rack) using appropriate fasteners. Ensure it is stable and accessible.
2. **Cable Preparation:** Prepare the cables by stripping the outer jacket to expose the twisted pairs. Be careful not to nick the insulation of the individual wires.
3. **Pair Termination:** Using the 110 punch down tool, terminate each twisted pair onto the designated slots on the 4-pair or 5-pair connecting blocks. Ensure the wires are fully seated and the insulation displacement connection is properly made. Follow the TIA/EIA 568-B wiring standards (T568A or T568B) for consistent pinouts.
4. **Attaching Connecting Blocks:** Once pairs are terminated onto the smaller connecting blocks, snap these blocks onto the main 100-pair wiring block. Ensure they are firmly seated.
5. **Verification:** After all connections are made, use a cable tester to verify continuity and correct wiring for each terminated pair.

3. Operating Principles

The 110 connecting block system provides a reliable and high-density method for cross-connecting and terminating copper cables in telecommunications closets and equipment rooms. Each connecting block uses insulation displacement contacts (IDCs) to establish electrical connections without stripping the wire insulation, simplifying installation and reducing potential for errors.
The 100-pair wiring block serves as a central point for organizing and distributing up to 100 individual twisted pairs, allowing for flexible network configurations and easy management of voice and data circuits.

4. Maintenance

The ICC 110 connecting block system is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure continued performance.

- **Visual Inspection:** Periodically inspect the connecting blocks and wiring block for any signs of physical damage, loose connections, or excessive dust accumulation.
- **Cleaning:** If dust or debris is present, gently clean the surface with a soft, dry cloth or compressed air. Avoid using liquid cleaners directly on the contacts.
- **Re-seating Connections:** If a connection issue is suspected, carefully re-seat the connecting block onto the wiring block or re-punch down the individual wires if necessary.

5. Troubleshooting

Most issues related to 110 connecting blocks stem from improper termination or damaged cabling.

Common Issues and Solutions:

- **No Signal/Intermittent Connection:**

- **Cause:** Loose or improper wire termination, damaged cable, incorrect wiring standard.
- **Solution:** Re-punch down the affected wires ensuring they are fully seated. Verify the wiring standard (T568A/B) is consistently applied. Inspect the cable for physical damage. Use a cable tester to pinpoint faults.

- **Crosstalk/Noise:**
  - **Cause:** Untwisted pairs too long at the termination point, improper cable routing.
  - **Solution:** Ensure that the untwisted portion of the pairs is kept to a minimum (typically less than 0.5 inches) at the termination point. Maintain proper cable separation.
- **Physical Damage to Block:**
  - **Cause:** Excessive force during installation, impact.
  - **Solution:** If a connecting block or wiring block is physically damaged, it should be replaced to ensure reliable performance.

6. Specifications

Attribute	Value
Model Number	IC110W1004 / IC-110W1-004
Pair Capacity	100 Pair
Kit Components	Twenty 4-pair, four 5-pair connecting blocks, one 100-pair wiring block
Termination Type	110 IDC (Insulation Displacement Contact)
Item Weight	2 pounds
ASIN	B004HN6X20
Date First Available	January 25, 2011
Manufacturer	ICC

7. Warranty Information

ICC products are manufactured to high standards and typically come with a manufacturer's warranty. For specific details regarding the warranty period and terms for the IC110W1004 kit, please refer to the official ICC website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

8. Customer Support

If you require further assistance, technical support, or have questions regarding the ICC IC110W1004 kit, please contact ICC customer support through their official channels. You can often find contact information, FAQs, and additional resources on the ICC Brand Store on Amazon or their corporate website.

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