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› Panduit PN18-10R-M Ring Terminal User Manual

## Panduit PN18-10R-M

# Panduit PN18-10R-M Ring Terminal User Manual

Model: PN18-10R-M

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the Panduit PN18-10R-M Ring Nylon Terminal. Please read these instructions carefully before use to ensure safe and effective application.

## 2. PRODUCT OVERVIEW

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The Panduit PN18-10R-M is a high-quality ring terminal designed for reliable electrical connections. It features nylon insulation for enhanced protection and is suitable for specific wire gauges and stud sizes.



*Image 1: Panduit PN18-10R-M Ring Nylon Terminal. This image displays a single ring terminal with its distinctive blue nylon insulation and metal ring connector.*

### Key Features:

- **Connector Type:** Ring
- **Insulation Material:** Nylon
- **Wire Gauge Compatibility:** 22-18 AWG
- **Stud Size:** #10
- **Application:** Controls

### 3. SPECIFICATIONS

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Specification	Detail
Model Number	PN18-10R-M
Connector Type	Ring
Insulation Material	Nylon
Wire Gauge	22-18 AWG
Stud Size	#10
Brand	Panduit
ASIN	B001PTOH2M

### 4. INSTALLATION AND SETUP

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Follow these steps for proper installation of the ring terminal:

- 1. Prepare the Wire:** Strip approximately 3/8 inch (9.5 mm) of insulation from the end of the wire. Ensure the wire strands are clean and untwisted.
- 2. Insert Wire:** Insert the stripped end of the wire fully into the barrel of the ring terminal. Ensure no bare wire strands are exposed outside the terminal barrel.
- 3. Crimp the Terminal:** Using a suitable crimping tool designed for insulated terminals, crimp the terminal barrel securely onto the wire. The crimp should be firm and centered on the barrel.
- 4. Verify Connection:** Gently pull on the wire to ensure the crimp is secure and the wire cannot be easily removed from the terminal.
- 5. Connect to Stud:** Place the ring portion of the terminal over the appropriate #10 stud or screw. Secure it firmly with a nut or screw, ensuring good electrical contact.

**Safety Note:** Always disconnect power before working on electrical connections. Use appropriate personal protective equipment (PPE).

### 5. OPERATING INSTRUCTIONS

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Once properly installed, the Panduit PN18-10R-M ring terminal provides a secure and reliable electrical connection. Its nylon insulation offers protection against accidental contact and environmental factors. Ensure the connection remains tight and free from corrosion for optimal performance.

### 6. MAINTENANCE

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The Panduit PN18-10R-M ring terminal requires minimal maintenance. Periodically inspect connections for:

- **Tightness:** Ensure all connections remain securely fastened. Loose connections can lead to overheating and poor performance.
- **Corrosion:** Check for any signs of rust or corrosion on the metal parts. Clean if necessary, or replace the terminal if corrosion is severe.
- **Insulation Integrity:** Inspect the nylon insulation for cracks, cuts, or discoloration that could indicate damage or overheating.

Replace any damaged terminals immediately to prevent electrical hazards.

## 7. TROUBLESHOOTING

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Most issues related to ring terminals stem from improper installation or environmental factors.

### Common Issues and Solutions:

- **Loose Connection:** If the terminal feels loose on the stud or the wire pulls out of the terminal, re-crimp the terminal or tighten the stud connection. Ensure the correct crimping tool and technique are used.
- **Overheating:** Overheating can be caused by a loose connection, an undersized wire for the current, or a poor crimp. Inspect all aspects of the connection and ensure components are rated for the application.
- **Corrosion:** If corrosion is present, clean the connection points thoroughly. For severe corrosion, replace the terminal. Consider using dielectric grease in corrosive environments.

If problems persist, consult a qualified electrician.

## 8. WARRANTY AND SUPPORT

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Panduit products are manufactured to high standards. For specific warranty information, please refer to the official Panduit website or contact their customer support directly. Keep your purchase receipt for warranty claims.

For technical support or further inquiries, please visit the Panduit Store on Amazon or the official Panduit corporate website.