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› FOWIUNYE /

› FOWIUNYE M12 5-Pin Male Connector Cable Instruction Manual

## FOWIUNYE M12-5pin-male-back-mount-A-S-0.5M

# FOWIUNYE M12 5-Pin Male Connector Cable Instruction Manual

Model: M12-5pin-male-back-mount-A-S-0.5M

<a href="#">Installation</a>	<a href="#">Introduction Operation</a>	<a href="#">Features Maintenance</a>	<a href="#">Specifications Troubleshooting</a>	<a href="#">Setup &amp; Warranty &amp; Support</a>
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## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the FOWIUNYE M12 5-Pin Male Connector Cable. This A-coded, straight back mount connector is designed for reliable and waterproof electrical connections in various applications, featuring an IP67 rating for environmental protection.

## 2. PRODUCT FEATURES

- **M12 5-Pin Male Connector:** Single-ended, 5-pin male panel receptacle with A-coding.
- **Straight Back Mount Design:** Suitable for panel or cable mounting with a straight configuration.
- **Waterproof and Unshielded:** IP67 rated for protection against dust and water ingress, suitable for various environments.
- **Stable Threaded Connection:** Features a thread locking mechanism and anti-vibration design for secure connections.
- **High Precision Conductors:** Utilizes oxygen-free copper for excellent electrical conductivity.
- **Quick Installation:** Designed for easy and tool-free installation and removal, facilitating rapid connection between field devices and terminals.
- **Versatile Application:** Ideal for sensor and actuator devices in automation applications, including proximity switches and flow monitoring devices.
- **Durable Construction:** Made from high-quality PVC for strength and reliability in data and signal transmission.

## 3. SPECIFICATIONS

Attribute	Value
Model Number	M12-5pin-male-back-mount-A-S-0.5M
Connector Type	M12, 5-Pin, Male, Panel Receptacle
Coding	A-Coded
Mounting Type	Straight, Back Mount (for Panel/Cable)
Termination	Solder Type
Waterproof Rating	IP67
Shielding	Unshielded
Cable Length	0.5 Meter (1.64 ft)
Conductor Material	Oxygen-free copper
Cable Material	PVC
Item Weight	0.634 ounces
Package Dimensions	4.88 x 3.07 x 0.71 inches

## 4. SETUP & INSTALLATION

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The FOWIUNYE M12 5-Pin Male Connector Cable is designed for straightforward installation. Follow these steps for proper setup.

### 4.1 Panel Mounting

This connector supports both front and back panel mounting. The required installation hole size is 16mm.

# Installation behind the board



Image 4.1.1: M12 5-Pin Male Connector with dimensions for back mount installation. The connector measures 21mm in length, with a 12mm thread diameter and a 16mm hexagonal nut width.

## Installation in front of the board

## Installation behind the board

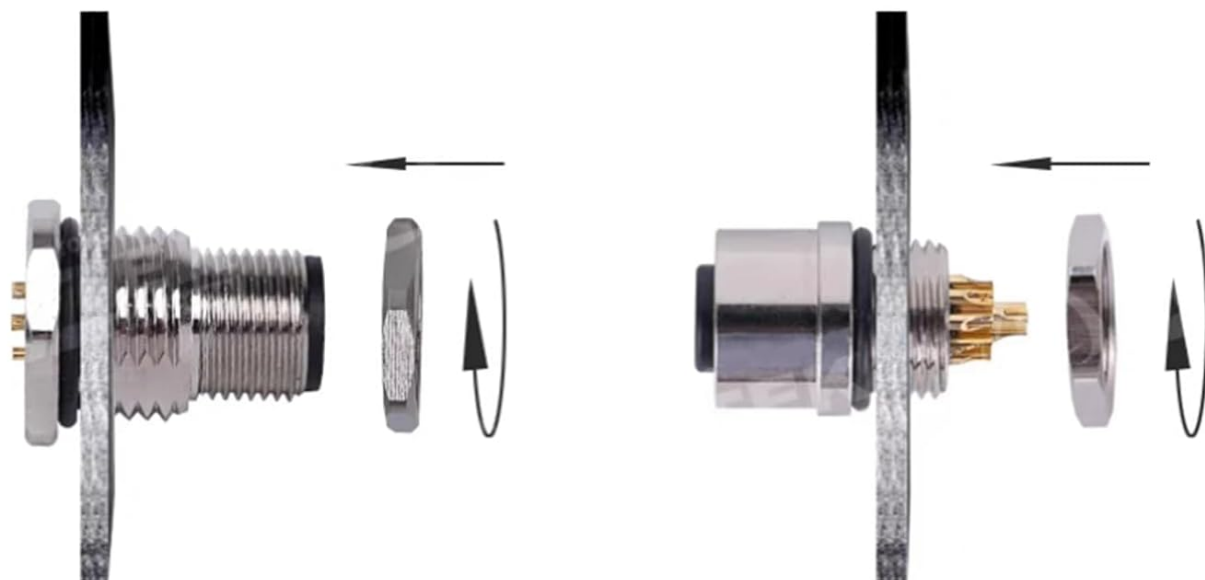


Image 4.1.2: Diagram illustrating the installation process for M12 connectors. The left side shows installation from the front of the board, and the right side shows installation from behind the board, both secured with a threaded nut.

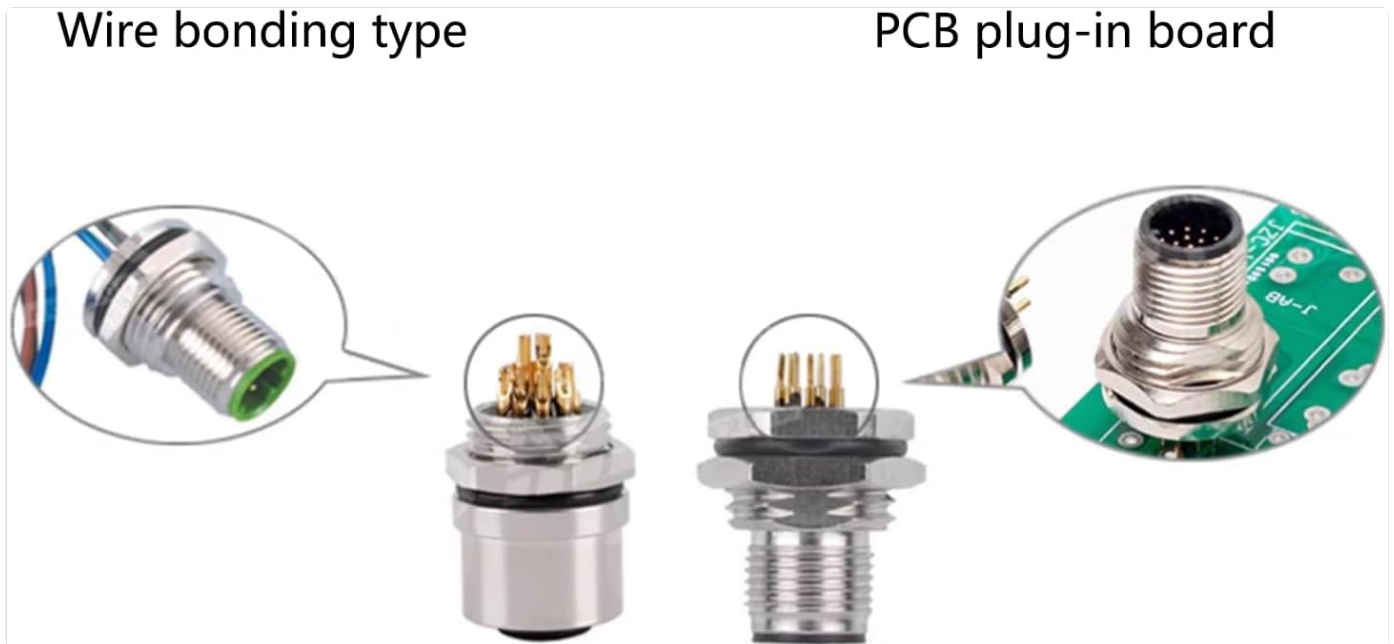


Image 4.1.3: A collection of M12 panel installation connectors, showcasing different pin configurations and mounting options, including both male and female types.

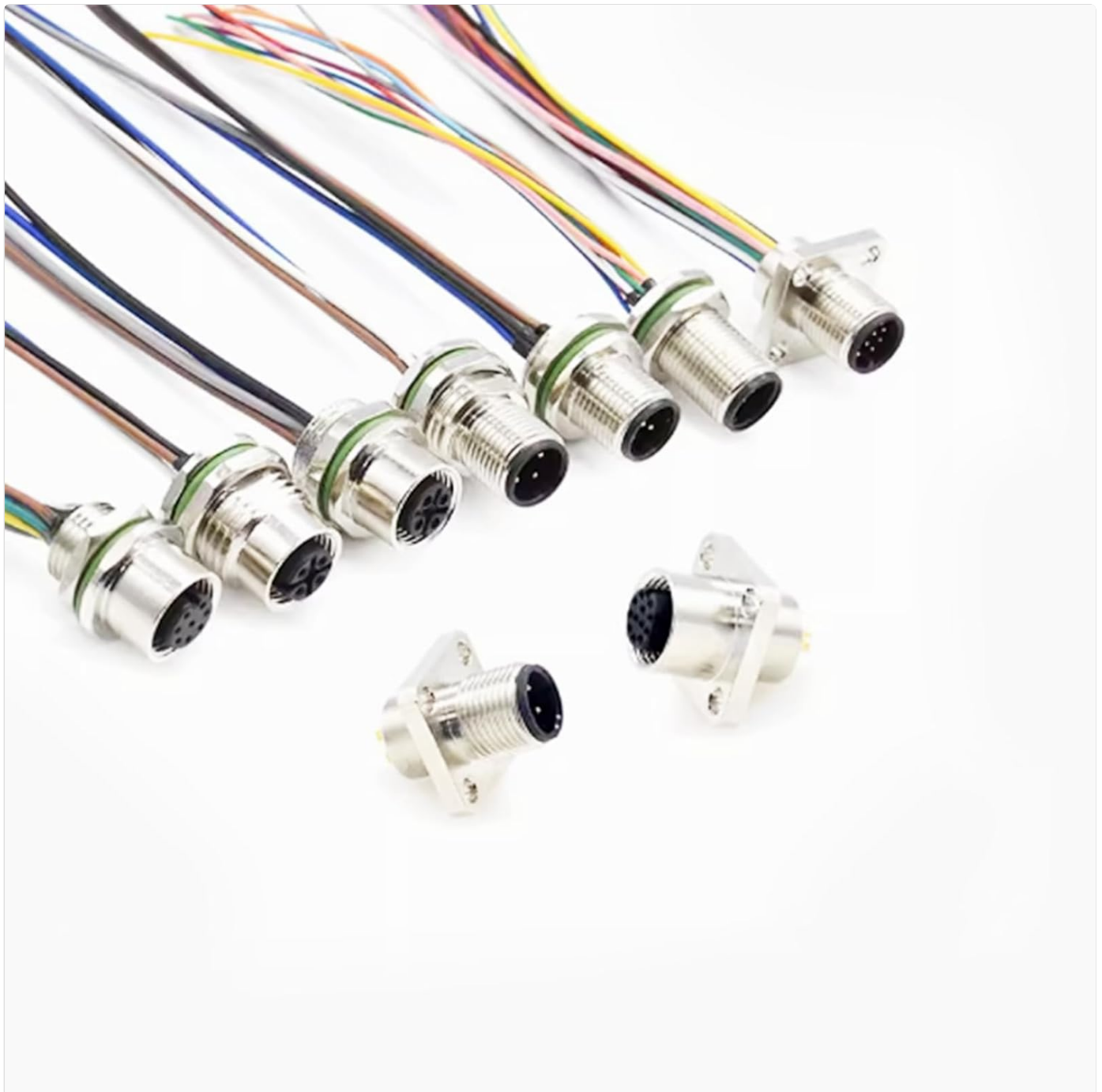


Image 4.1.4: Detailed diagram showing various M12 connector types for both rear and front board installation. Each connector requires a 16mm installation hole and displays dimensions for length (20mm or 21mm) and thread diameter (8mm or 12mm).

## 4.2 Wiring Instructions

The connector features a solder type termination. Ensure proper wire bonding for secure electrical connections. The M12 A-code pin allocation diagram below provides guidance for wiring.

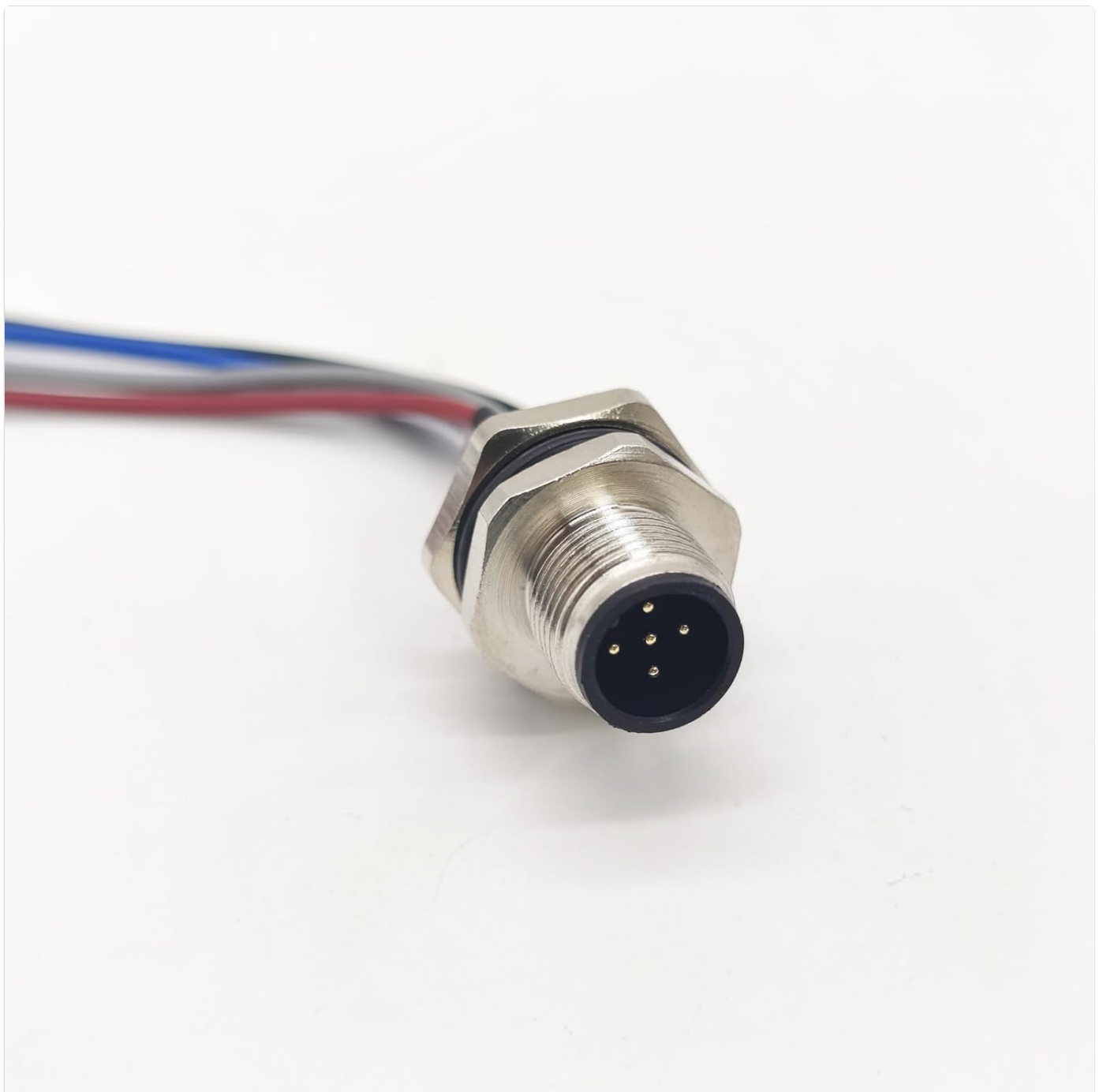


Image 4.2.1: Close-up view illustrating two types of M12 connector terminations: wire bonding type (left) and PCB plug-in board type (right), highlighting the internal pins.



Image 4.2.2: Diagram detailing M12 A-code pin allocation and wiring instructions for 4-pin, 5-pin, 8-pin, 12-pin, and 17-pin male and female connectors.



Image 4.2.3: A close-up view of the M12 5-pin male connector, showing the individual wires connected to its pins, ready for installation.



Image 4.2.4: An array of M12 connectors, each with different wire configurations and pin counts, demonstrating the versatility of the product line.

### 4.3 Assembly Demonstration

Watch this video for a visual guide on assembling the M12 connector cable.

Your browser does not support the video tag.

Video 4.3.1: A short video demonstrating the assembly process of the M12 5-pin male connector cable, showing how the wires are connected and the connector is secured.

## 5. OPERATION

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Once installed, the M12 5-Pin Male Connector Cable provides a reliable electrical connection. Ensure the threaded connection is tightened securely to maintain its waterproof and anti-vibration properties.

- **Connecting Devices:** Align the male connector with the corresponding female receptacle and twist the threaded collar until it is finger-tight.

- **Disconnecting Devices:** Unscrew the threaded collar and gently pull the connectors apart. Avoid pulling directly on the wires.
- **Environmental Protection:** The IP67 rating ensures protection against dust and temporary immersion in water. However, avoid prolonged submersion or exposure to high-pressure water jets.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your M12 connector cable.

- **Cleaning:** Periodically inspect the connector for dirt or debris. Clean with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, ensuring the connector is completely dry before re-use.
- **Inspection:** Check for any signs of wear, damage, or corrosion on the connector body, pins, and cable insulation. Ensure the O-ring seal is intact and free from cracks.
- **Secure Connections:** Verify that all threaded connections remain tight to maintain the IP67 seal and prevent accidental disconnections.
- **Storage:** When not in use, store the connector in a clean, dry environment to prevent damage and contamination. Consider using protective caps if available.



Image 6.1: Examples of protective caps for M12 connectors, useful for maintaining cleanliness and preventing damage when not in use.

## 7. TROUBLESHOOTING

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If you encounter issues with your M12 connector cable, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No signal/power transmission	Loose connection, incorrect wiring, damaged cable/pins.	Ensure the connector is fully tightened. Verify wiring against the pin allocation diagram. Inspect cable and pins for damage; replace if necessary.
Intermittent connection	Vibration, partial disconnection, corrosion on pins.	Tighten the threaded connection. Clean pins if corrosion is present. Ensure the anti-vibration locking design is engaged.
Water ingress	Improperly tightened connection, damaged O-ring, exceeding IP67 limits.	Ensure the connector is fully tightened. Inspect and replace damaged O-rings. Avoid prolonged submersion or high-pressure water.
Difficulty connecting/disconnecting	Dirt/debris in threads, damaged threads.	Clean threads carefully. If threads are damaged, the connector may need replacement.

## 8. WARRANTY & SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact FOWIUNYE customer service through your point of purchase. Keep your purchase receipt for warranty claims.

