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FOWIUNYE M12-12pin-male-A-S-AWG26

FOWIUNYE M12 12 Pin Male Connector Cable User Manual

Model: M12-12pin-male-A-S-AWG26

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your FOWIUNYE M12 12 Pin Male Connector Cable. This cable is designed for reliable data and signal transmission in various industrial and sensor applications. Please read this manual thoroughly before use to ensure optimal performance and safety.

2. Product Overview

The FOWIUNYE M12 12 Pin Male Connector Cable is a robust solution for connecting field devices and terminal connections. It features an M12 A-coded male connector with 12 pins, designed for secure and stable signal transmission. The cable is constructed with AWG26 wires and a durable PVC outer jacket, ensuring longevity and performance in demanding environments.



Image 1: The FOWIUNYE M12 12 Pin Male Connector Cable, shown coiled with the male connector visible.

Key Features:

- **M12 A-Coded Connector:** Standardized 12-pin male connector for industrial applications.
- **Straight Molding:** Ensures a secure and reliable connection.
- **AWG26 Wire:** Suitable for signal and low-current data transmission.
- **PVC Cable Jacket:** Provides protection against mechanical damage and environmental factors.
- **Brass with Gold Plated Contacts:** Enhances conductivity and corrosion resistance.
- **IP67 Protection Class:** Offers protection against dust and temporary immersion in water.

3. Specifications

Specification	Detail
Series	M12 12Pin Connector Cable
Connection Method	Pre-injected cable
Coding	A Coding
Termination Style	Screw-Joint
Temperature Range	-25°C to 85°C
Protection Class	IP67
Connector Contacts	Brass with gold plated
Housing Material	PA6

Cable Type	PVC, AWG26
Connector Gender	Male
Number of Pins	12
Indoor/Outdoor Usage	Indoor, Outdoor



Image 2: Measurement of the M12 connector diameter, showing approximately 11.87mm.

4. Setup and Installation

The FOWIUNYE M12 12 Pin Male Connector Cable is designed for straightforward installation, facilitating quick and easy connections between devices. No specialized tools are required for typical installation and removal.

Installation Steps:

1. **Identify Compatible Port:** Ensure the receiving device has a compatible M12 12-pin female port.
2. **Align Connector:** Carefully align the male connector of the cable with the female port on your device. The A-coding ensures correct orientation.
3. **Insert and Secure:** Gently push the connector into the port. Once seated, tighten the screw-joint mechanism by hand until it is snug. Do not overtighten. The threaded locking mechanism provides an anti-vibration lock, ensuring a stable connection.
4. **Verify Connection:** Confirm that the cable is securely attached and there is no visible gap between the connectors.



Image 3: A hand demonstrating the grip on the M12 male connector, ready for connection.

5. Operating Instructions

This M12 12 Pin Male Connector Cable is designed for reliable data and signal transmission in various industrial and electronic applications. Once properly installed, the cable facilitates communication between connected devices.

Typical Applications:

- **Sensor Devices:** Connecting various industrial sensors for data acquisition.
- **Actuator Devices:** Interfacing with actuators for control signals.
- **Field Bus Components:** Integration into field bus systems for distributed control.
- **Aviation Electronics:** Signal electronic connector applications in aviation.
- **Electric Bicycles:** Used in specific electronic systems within electric bicycles.

The cable's design ensures stability and reliability of data and signals, making it suitable for critical industrial processes. Its insulation and flame-retardant properties contribute to operational safety.

6. Maintenance

Proper maintenance ensures the longevity and reliable performance of your M12 connector cable.

- **Regular Inspection:** Periodically inspect the cable and connectors for any signs of physical damage, such as cuts, abrasions, or bent pins.
- **Cleaning:** If necessary, gently clean the connector contacts with a dry, lint-free cloth. Avoid using abrasive cleaners or solvents that could damage the materials.
- **Secure Connections:** Ensure that all connections remain tightly secured. Loose connections can lead to intermittent signal loss or damage.
- **Environmental Protection:** While the cable has an IP67 rating, avoid prolonged exposure to harsh chemicals or extreme temperatures beyond its specified operating range.
- **Proper Storage:** When not in use, store the cable in a clean, dry environment, preferably coiled loosely to prevent kinks or damage.

7. Troubleshooting

If you encounter issues with your M12 connector cable, consider the following troubleshooting steps:

- **No Signal or Intermittent Connection:**
  - Check if the connectors are fully seated and the screw-joint is tightened.
  - Inspect the cable for visible damage (cuts, kinks).
  - Ensure the connected devices are powered on and functioning correctly.
  - Verify that the M12 connector on the device is clean and free of debris.
- **Physical Damage to Connector Pins:**
  - Bent or broken pins can prevent proper connection. If pins are damaged, the cable may need replacement. Handle connectors carefully during installation and removal.
- **Environmental Issues:**
  - While IP67 rated, extreme conditions outside the specified temperature range (-25°C to 85°C) can affect performance. Ensure the operating environment is within these limits.

If troubleshooting steps do not resolve the issue, please contact FOWIUNYE customer support for further assistance.

8. Warranty and Support

FOWIUNYE products are manufactured to high-quality standards. For specific warranty information regarding your M12 12 Pin Male Connector Cable, please refer to the product packaging or contact FOWIUNYE customer support directly. Support contact details can typically be found on the manufacturer's official website or included documentation.

For technical assistance, product inquiries, or warranty claims, please reach out to FOWIUNYE customer service.

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