JHYOSSTHI 4Pin

JHYOSSTHI 4-Pin Magnetic Pogo Pin Connector Instruction Manual

Model: 4Pin
Brand: JHYOSSTHI

1. Introduction

This manual provides essential information for the proper use and maintenance of your JHYOSSTHI Magnetic Pogo Pin Connector. This connector is designed for reliable and convenient power and data transfer in various electronic applications, featuring a magnetic attachment and spring-loaded pins for optimal contact. Please read this manual thoroughly before installation and operation.

2. Safety Information

- Ensure the power source is disconnected before installing or handling the connector to prevent electrical shock.
- Do not exceed the specified operating voltage and current ratings (12V, 2A) to avoid damage to the connector or connected devices.
- Keep the connector away from strong magnetic fields that could interfere with its operation or damage sensitive electronic components.
- Avoid exposing the connector to extreme temperatures or corrosive environments.

3. Product Overview

The JHYOSSTHI Magnetic Pogo Pin Connector consists of a male and a female component, each equipped with spring-loaded pogo pins and integrated magnets. The magnets ensure a secure and easy connection, while the pogo pins provide excellent electrical conductivity. This specific model features a 4-pin configuration, suitable for applications requiring four contact points.

Figure 3.1: JHYOSSTHI 4-Pin Magnetic Pogo Pin Connector (Male and Female)

The product line includes various pin configurations, ranging from 2-pin to 12-pin, to accommodate diverse application requirements.

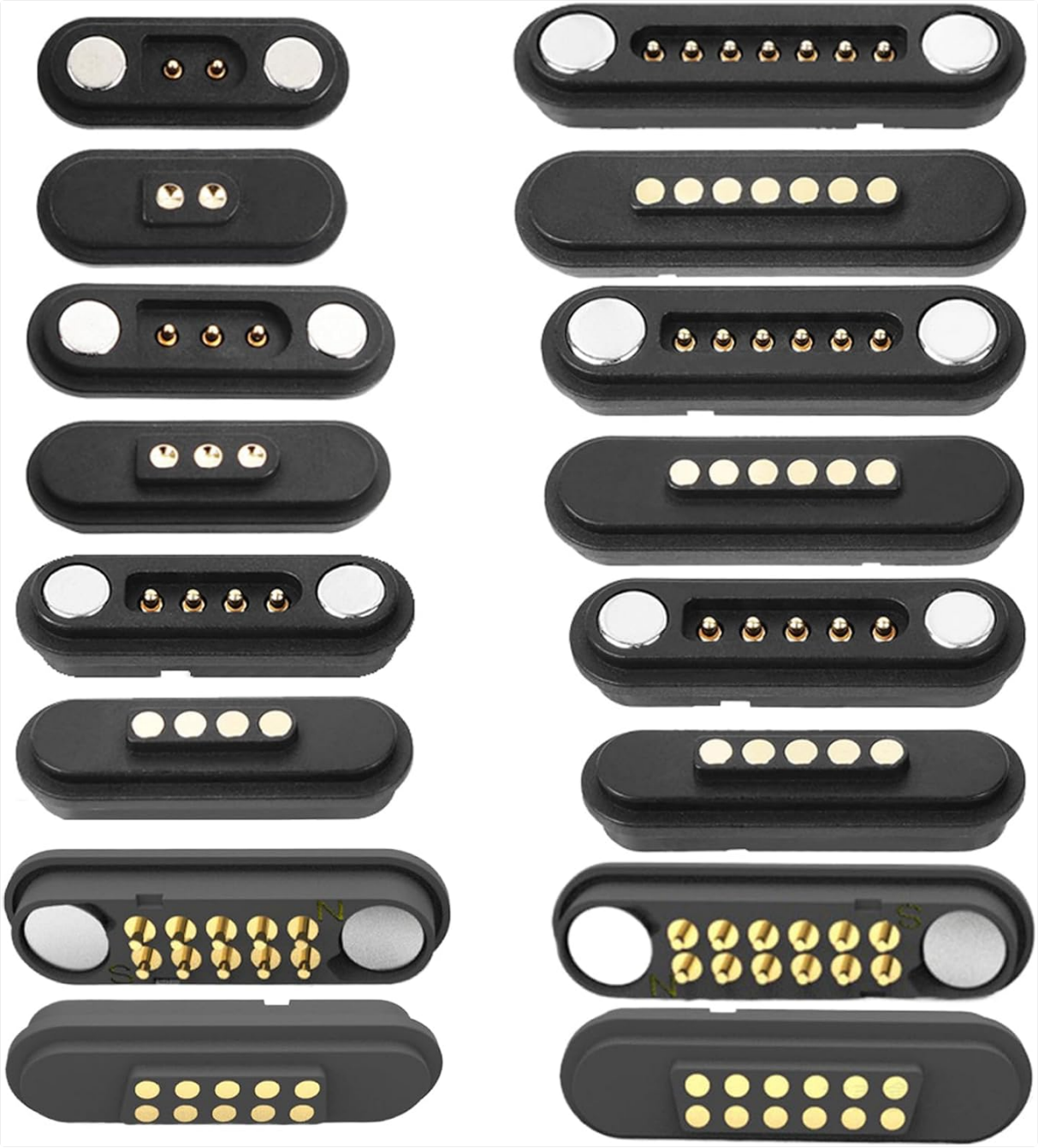

Figure 3.2: Various Pin Configurations of Magnetic Pogo Pin Connectors

4. Technical Specifications

Feature	Specification
Model	4Pin
Operating Voltage	12V
Operating Current	2A
Connector Gender	Male-to-Female
Contact Material	Gold-plated spring pins
Color	Black
Item Weight	6 Grams (0.212 ounces)

Feature	Specification
Package Dimensions	1.73 x 1.46 x 0.67 inches

Dimensional Drawings

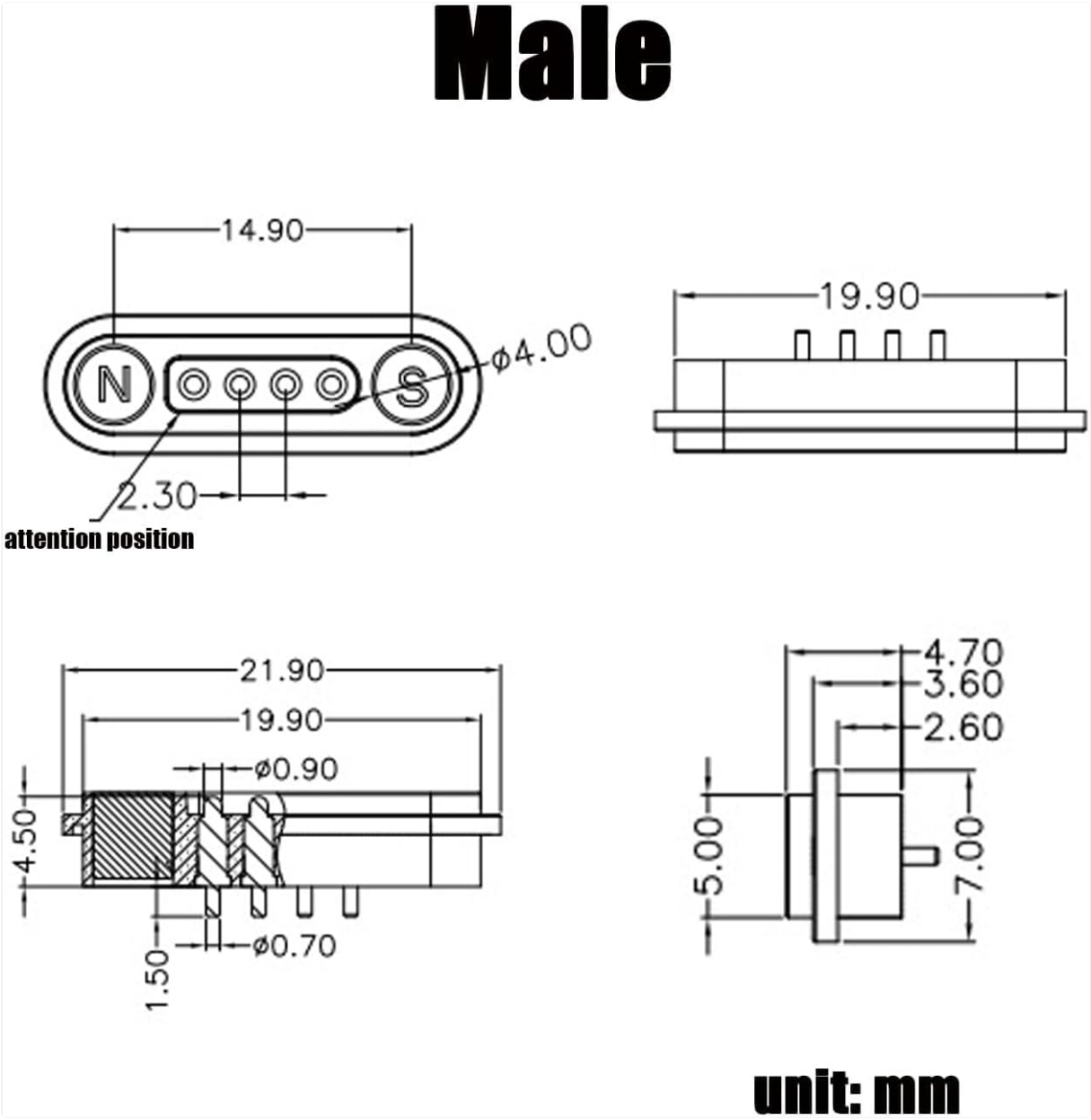

Figure 4.1: Male Connector Dimensions (Unit: mm)

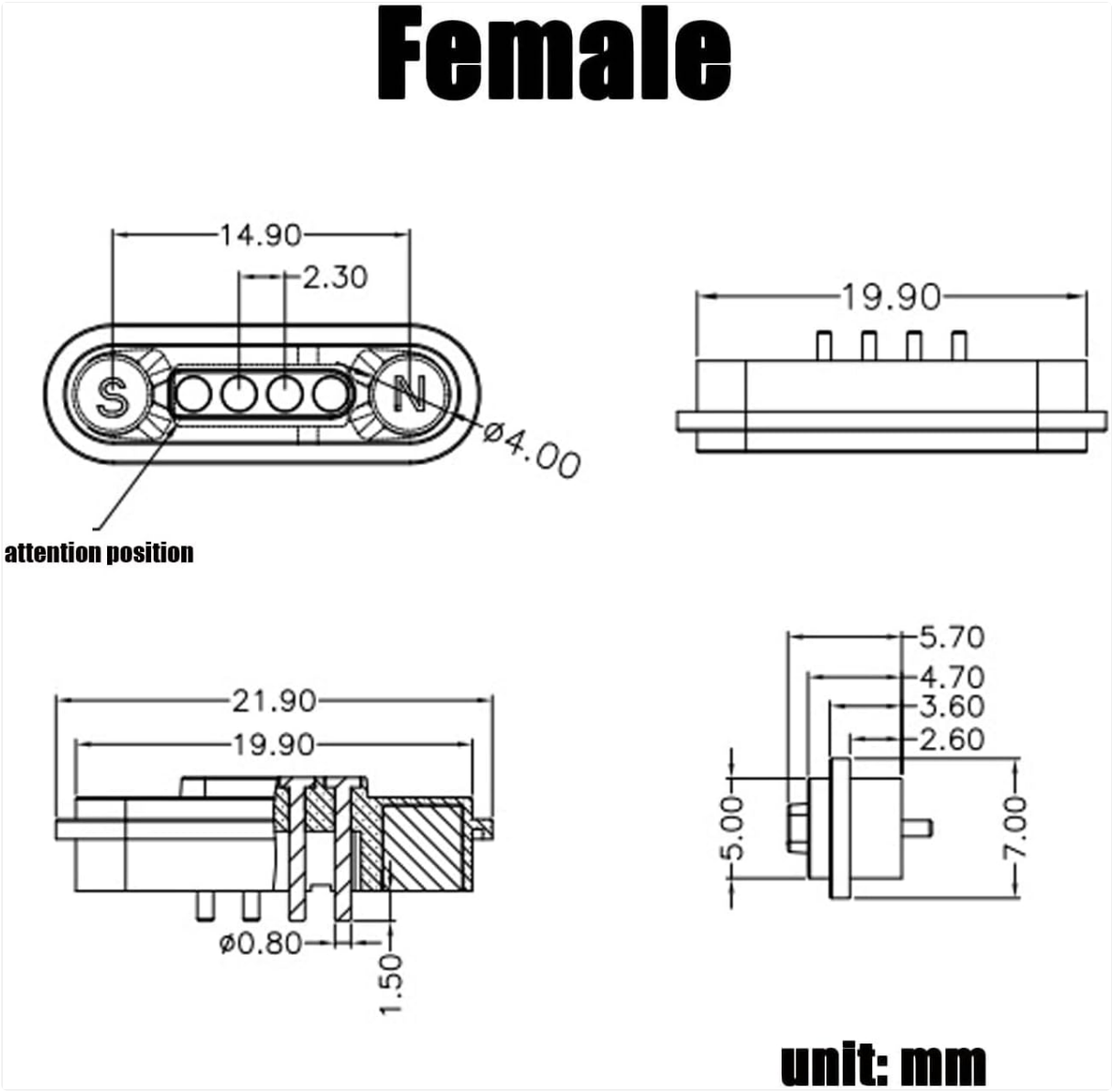

Figure 4.2: Female Connector Dimensions (Unit: mm)

5. Setup and Installation

1. **Preparation:** Ensure that the devices or circuits you intend to connect are powered off.
2. **Identify Components:** Distinguish between the male and female connector parts. The male part typically has protruding pins, while the female part has corresponding receptacles.
3. **Integration:** Integrate the male and female connectors into your device design. The compact size allows for flexible placement. Ensure proper alignment for the magnetic connection.
4. **Wiring:** Connect the appropriate wires to the solder points on the back of each connector piece. Pay close attention to polarity and pin assignments for correct functionality.
5. **Connection:** Bring the male and female connector parts close together. The integrated magnets will automatically align and secure the connection, ensuring the pogo pins make proper contact.

6. Operating Principles

The JHYOSSTHI Magnetic Pogo Pin Connector utilizes a combination of magnetic force and spring-loaded contacts for its operation:

- **Magnetic Attachment:** Embedded magnets in both the male and female components attract each other, providing a strong, self-aligning, and quick-release connection. This simplifies connection and disconnection processes.

- **Spring-Loaded Pins:** The gold-plated pogo pins are spring-loaded, ensuring consistent and reliable electrical contact even with slight variations in alignment or surface irregularities. This design also contributes to the connector's durability and resistance to wear over repeated connections.

7. Typical Applications

This magnetic pogo pin connector is versatile and suitable for a wide range of precision electronic products and devices, including but not limited to:

- Semiconductor devices
- Mobile phones and accessories (e.g., charging docks, external modules)
- Communications equipment
- Automotive electronics
- Smartwatches and wearable technology
- Headphones and earbuds (charging cases)
- Handheld terminals and portable devices
- Medical equipment
- Beauty instruments

Figure 7.1: Application Examples in Consumer Electronics

Figure 7.2: Diverse Applications of Magnetic Pogo Pin Connectors

8. Care and Maintenance

- **Cleaning:** Gently wipe the contact surfaces with a dry, lint-free cloth to remove dust or debris. Avoid using abrasive cleaners or solvents.
- **Handling:** Avoid applying excessive force when connecting or disconnecting, as the magnetic attraction is designed for easy separation. Do not bend or pry the pogo pins.
- **Storage:** Store connectors in a clean, dry environment when not in use to prevent corrosion or damage.

9. Troubleshooting

- **No Connection/Intermittent Connection:**
  - Check for any foreign objects or debris on the contact surfaces of both male and female connectors.
  - Ensure the connectors are properly aligned and the magnets are engaging fully.
  - Verify that the wiring to the connector is secure and correctly soldered.
- **Weak Magnetic Hold:**
  - Ensure no metallic objects are interfering with the magnetic field.

- Check for physical damage to the magnets.

10. Warranty and Support

JHYOSSTHI products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt for warranty claims.