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keisnoaja SP21 7 Pin

User Manual: SP21 7 Pin Circular Connector

Model: SP21 7 Pin | Brand: keisnoaja

Product Overview

The keisnoaja SP21 7 Pin Circular Connector is a robust electrical component designed for reliable connections in various applications. This product features a 4-hole flange mount socket and a right-angled plug, utilizing solder contacts for secure termination. Its design emphasizes ease of connection and disconnection, making it suitable for environments requiring quick assembly or disassembly.

Key features include an IP68 rating, ensuring excellent performance in harsh environmental conditions, and a durable construction designed for long-term use.

Product Image



This image displays the keisnoaja SP21 7 Pin Circular Connector. On the left is the 4-hole flange mount socket, featuring gold-plated pins. On the right is the right-angled plug, with blue threaded caps on both ends, designed to mate with the socket. Both components are black, indicating their robust construction.

Specifications

Technical Parameters

Category	Parameter	Value

Category	Parameter	Value
Electrical Characteristics	Insulation Resistance	1500MΩ
	Contact Resistance	1MΩ/2.5MΩ/5MΩ
	Rated Voltage	500V/400V
	Rated Current	30A/15A/5A
Mechanical Characteristics	Mating Type	Thread coupling
	Termination	Solder / Screw
	Durability (mating)	500 cycles
Environmental Characteristics	Temperature Range	-40°C ~ +85°C
	IP Rating	IP68
Material	Shell Material	PA66
	Insert Material	PPS
	Contact	Copper, Gold Plated
	Contact Diameter	3MM, 2MM, 1MM

General Product Information

- **ASIN:** B0BQM9K1JP
- **Date First Available:** December 20, 2022
- **Manufacturer:** keisnoaja

Setup and Installation

The SP21 7 Pin Circular Connector is designed for flange mounting and secure electrical termination. Follow these general steps for installation:

1. **Mounting the Socket:** The 4-hole flange mount socket is intended for panel or enclosure mounting. Align the four mounting holes on the socket with pre-drilled holes on your mounting surface. Secure the socket using appropriate screws or fasteners (not included) through the flange holes. Ensure a tight and stable fit to maintain the IP68 rating.
2. **Wire Termination (Socket and Plug):** Both the socket and plug components support solder or screw termination.
    - *For Solder Termination:* Carefully strip the insulation from your wires to the appropriate length. Solder each wire to its corresponding pin on the connector. Ensure strong, clean solder joints to prevent electrical resistance or shorts.
    - *For Screw Termination:* If your specific connector variant supports screw termination, insert the stripped wire ends into the designated terminals and tighten the screws securely.

    Refer to the pinout diagram (if available with your specific product packaging) for correct wire assignments.
3. **Assembly of Plug:** After wire termination, assemble the plug housing around the terminated pins. Ensure all components are correctly aligned and secured. The right-angled design of the plug allows for flexible cable routing.

Proper installation is crucial for maintaining the connector's electrical integrity and environmental protection.

Operating Instructions

The SP21 7 Pin Circular Connector features an easy quick connect and disconnect coupling mechanism, typically a thread coupling. To operate:

1. **Connecting:** Align the keyways or alignment marks on the plug with those on the socket. Gently push the plug into the socket until the pins are fully engaged. Then, rotate the threaded coupling ring on the plug clockwise until it is hand-tight. Do not overtighten, as this can damage the threads or sealing components. A secure connection ensures proper electrical contact and maintains the IP68 seal.
2. **Disconnecting:** To disconnect, rotate the threaded coupling ring on the plug counter-clockwise until it loosens. Once loose, gently pull the plug straight out from the socket. Avoid pulling on the cable itself, as this can strain the wire terminations.

Always ensure the power supply to the connected circuit is off before connecting or disconnecting the connector to prevent electrical hazards.

Maintenance

The keisnoaja SP21 7 Pin Circular Connector is designed for durability and minimal maintenance, especially given its IP68 rating. However, periodic checks can help ensure optimal performance and longevity:

- **Cleaning:** If the connector is exposed to dirt, dust, or other contaminants, gently wipe the exterior surfaces with a clean, damp cloth. For stubborn grime, a mild, non-abrasive cleaning solution can be used, followed by drying. Ensure the connector is completely dry before re-mating.
- **Inspection:** Periodically inspect the connector for any signs of physical damage, such as cracks in the housing, bent or corroded pins, or damaged sealing rings. Check the integrity of the cable entry points.
- **Connection Integrity:** Ensure that the threaded coupling remains securely tightened during operation. If the connector is frequently connected and disconnected, inspect the threads for wear.
- **Environmental Exposure:** While rated IP68, prolonged exposure to extreme conditions or corrosive substances beyond its specifications should be avoided.

Do not attempt to disassemble the sealed parts of the connector beyond what is necessary for wire termination, as this may compromise its IP rating and functionality.

Troubleshooting

This section addresses common issues that may arise with the SP21 7 Pin Circular Connector:

- **No Electrical Connection:**
  - *Check Mating:* Ensure the plug is fully inserted into the socket and the threaded coupling ring is securely tightened. A loose connection can prevent electrical contact.
  - *Inspect Pins:* Verify that none of the pins are bent, broken, or corroded. Straighten bent pins carefully if possible, or replace the connector if damage is severe.
  - *Verify Wiring:* Confirm that wires are correctly terminated (soldered or screwed) to the appropriate pins and that there are no loose strands or short circuits.
  - *Power Source:* Ensure the power source to the circuit is active and functioning correctly.
- **Difficulty Connecting/Disconnecting:**
  - *Alignment:* Ensure the keyways or alignment marks are correctly aligned before attempting to push the plug into the socket. Do not force the connection.
  - *Threads:* Check the threaded coupling ring and the corresponding threads on the socket for any debris,

damage, or cross-threading. Clean or clear any obstructions.

- **Compromised IP68 Rating (Water/Dust Ingress):**
  - *Secure Mating:* The IP68 rating relies on a fully mated and securely tightened connection. Ensure the coupling ring is tight.
  - *Seals:* Inspect the internal sealing rings (O-rings) for any damage, cracks, or displacement. Damaged seals can compromise water and dust resistance.
  - *Housing Integrity:* Check the connector housing for any cracks or physical damage that could allow ingress.

If issues persist after troubleshooting, contact the manufacturer for further assistance.

Warranty and Support

Warranty Information

This product is typically covered by a **30-day return policy** for refund or replacement, as per standard retail terms. Please refer to your purchase documentation or the retailer's policy for specific details regarding warranty claims and return procedures.

Customer Support

For technical assistance, product inquiries, or support regarding the keisnoaja SP21 7 Pin Circular Connector, please contact the manufacturer, **keisnoaja**, through their official channels or the retailer from whom the product was purchased.
Manufacturer: keisnoaja

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