

Amphenol PT06A-14-19S

Amphenol Industrial PT06A-14-19S Circular Connector Socket Instruction Manual

Model: PT06A-14-19S | Brand: Amphenol

1. INTRODUCTION

This manual provides comprehensive instructions for the proper handling, installation, operation, and maintenance of the Amphenol Industrial PT06A-14-19S Circular Connector Socket. This connector is designed for general duty, non-environmental applications, featuring a bayonet coupling mechanism and solder termination for secure and reliable electrical connections.

The PT06A-14-19S is a straight plug connector with a 14-19 insert arrangement, a 14 shell size, and 19 contacts, making it suitable for various industrial electrical applications requiring robust and dependable connectivity.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to equipment:

- Disconnect Power:** Ensure all power sources are disconnected before installing, maintaining, or troubleshooting the connector.
- Qualified Personnel:** Installation and maintenance should only be performed by qualified and trained personnel.
- Proper Tools:** Use only appropriate tools for installation and removal to avoid damaging the connector or associated components.
- Inspect for Damage:** Before use, visually inspect the connector for any signs of damage, such as cracks, bent pins, or corrosion. Do not use damaged connectors.
- Environmental Considerations:** This connector is designed for non-environmental applications. Avoid exposure to harsh environments, excessive moisture, or extreme temperatures unless specified otherwise.

3. PRODUCT COMPONENTS AND FEATURES

The Amphenol PT06A-14-19S Circular Connector Socket consists of several key components designed for reliable electrical connection:

- Shell:** The robust outer casing, size 14, provides mechanical protection and houses the insert.

- **Insert:** The insulating material within the shell that holds the contacts in the 14-19 arrangement.
- **Contacts:** 19 gold-plated socket contacts designed for solder termination, ensuring excellent electrical conductivity.
- **Coupling Nut:** Features a bayonet coupling mechanism for quick and secure mating with compatible plug connectors.



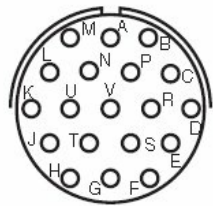
Figure 3.1: Front view of the Amphenol PT06A-14-19S Circular Connector Socket, showing the 19-contact insert arrangement and bayonet coupling features. The shell size is 14.



Figure 3.2: Rear view of the Amphenol PT06A-14-19S Circular Connector Socket, illustrating the solder cups for wire termination. This view shows the internal structure where wires are connected.

Brand: Amphenol

Amphenol Cylindrical Connector Insert Arrangement



Insert Arrangement	14-19
Service Rating	I
Number of Contacts	19
Contact Size	20

Contact Legend	
Symbol	Contact Size
	20
	16
	12
	HV
	12 Coax
	8 Coax



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Figure 3.3: Diagram illustrating the 14-19 insert arrangement for Amphenol cylindrical connectors. This diagram details the specific layout and numbering of the 19 contacts within the connector, along with a contact legend for various contact sizes.

4. SETUP AND INSTALLATION

The PT06A-14-19S is a straight plug connector designed to mate with compatible receptacle connectors such as the Amphenol PT02A-14-19P and PT07A-14-19P. Proper installation is crucial for optimal performance.

4.1. Wire Termination (Solder)

- Prepare Wires:** Strip the insulation from the wires to the appropriate length, ensuring only the conductor is exposed for soldering.
- Pre-tin Contacts (Optional but Recommended):** Apply a small amount of solder to the contact cups on the connector and to the stripped wire ends. This aids in better solder flow and connection.
- Solder Wires:** Insert the pre-tinned wire into the corresponding solder cup. Apply heat with a soldering iron to the contact cup until the solder melts and flows, creating a secure electrical and mechanical bond. Ensure no solder bridges between contacts.

4. **Inspect Connections:** After soldering, visually inspect each connection for proper solder joint formation, ensuring no cold joints or excess solder.

4.2. Mating the Connector

1. **Align Keys:** Align the keyway on the PT06A-14-19S plug connector with the corresponding key on the receptacle connector.
2. **Insert Connector:** Gently push the plug connector into the receptacle until the contacts engage.
3. **Engage Bayonet Coupling:** Rotate the coupling nut on the plug connector clockwise until it clicks into place, indicating a secure bayonet lock. Ensure the coupling nut is fully tightened to prevent accidental disconnection and maintain environmental sealing (if applicable to the mating receptacle).

5. OPERATION

Once properly installed and mated, the Amphenol PT06A-14-19S connector facilitates the transmission of electrical signals or power between connected devices. Its bayonet coupling ensures a quick and reliable connection.

5.1. Disconnecting the Connector

1. **Disconnect Power:** Always ensure power is disconnected from the circuit before attempting to unmate the connector.
2. **Unlatch Bayonet:** Rotate the coupling nut counter-clockwise until it disengages from the bayonet lock.
3. **Separate Connectors:** Gently pull the plug connector straight out from the receptacle. Avoid twisting or prying, which can damage the contacts or shell.

6. MAINTENANCE

The Amphenol PT06A-14-19S connector is designed for durability, but regular inspection and minimal maintenance can extend its lifespan and ensure continued performance.

- **Visual Inspection:** Periodically inspect the connector for any signs of physical damage, such as cracks in the shell, bent or corroded contacts, or loose coupling nuts.
- **Cleaning:** If necessary, clean the connector surfaces with a soft, lint-free cloth. For contacts, use a specialized electrical contact cleaner if contamination is suspected, ensuring the cleaner is non-residue and safe for plastics. Allow to dry completely before re-mating.
- **Storage:** When not in use, store connectors in a clean, dry environment, ideally with protective caps to prevent dust and debris from entering the contact area.

7. TROUBLESHOOTING

This section addresses common issues that may arise with the Amphenol PT06A-14-19S connector.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Poor or Intermittent Connection	Loose or improperly soldered wires. Corroded or dirty contacts. Bent or damaged contacts. Improperly mated connector.	Re-solder or secure wire connections. Clean contacts with appropriate cleaner. Inspect and carefully straighten bent contacts if possible, or replace the connector if damaged. Ensure the connector is fully engaged and the coupling nut is tightened.
Connector Will Not Mate	Misalignment of keyways. Damaged shell or contacts. Incompatible mating connector.	Re-align the keyways carefully. Inspect for physical damage; replace if necessary. Verify that the mating connector is compatible (e.g., PT02A-14-19P, PT07A-14-19P).
Connector Will Not Unmate	Coupling nut stuck or overtightened. Debris or corrosion.	Apply gentle, firm counter-clockwise rotation to the coupling nut. Inspect for debris and clean if necessary.

8. SPECIFICATIONS

Attribute	Detail
Product Model Number	PT06A-14-19S (Item model number: PT06A14-19S)
Type	Circular Connector Socket, Straight Plug
Duty	General Duty
Environmental Rating	Non-Environmental
Coupling Style	Bayonet
Termination Type	Solder
Shell Size	14
Insert Arrangement	14-19
Number of Contacts	19
Contact Type	Socket
Contact Plating	Gold
Product Dimensions	0.31 x 0.31 x 0.24 inches
Weight	0.8 ounces
Manufacturer	Amphenol

Attribute	Detail
National Stock Number	5935-00-820-4076
First Available Date	April 26, 2012


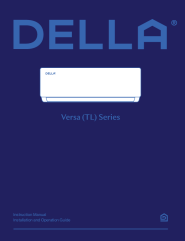


9. WARRANTY AND SUPPORT


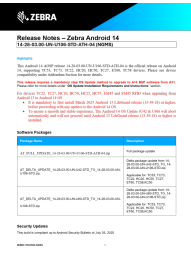
For information regarding product warranty, technical support, or service, please refer to the official Amphenol website or contact your authorized Amphenol distributor. Keep your purchase receipt for warranty claims.

Amphenol provides comprehensive support for its products, ensuring quality and reliability. For specific technical inquiries or assistance with product selection, please reach out to their customer service channels.

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Related Documents - PT06A-14-19S

	<p>EQK 19 SEER Mini Split Air Conditioner User Manual Installation & Operation Guide</p> <p>Comprehensive user manual for the EQK 19 SEER Mini Split Air Conditioner. Covers installation, operation, safety, maintenance, and troubleshooting for models including 19S-EACH9R1W/C, 19S-EACH18R2W/C, and 17S-EACH36R2W/C. Includes detailed instructions, diagrams explained, and error code information.</p>
	<p>DELLA Versa (TL) Series Air Conditioner: Installation and Operation Manual</p> <p>This official manual provides essential guidance for the proper installation and operation of your DELLA Versa (TL) Series air conditioner. It covers pre-installation checks, installation steps, operation modes, maintenance, and troubleshooting.</p>
	<p>Della Vario (TL) Series Air Conditioner Installation and Operation Manual</p> <p>Comprehensive guide for installing and operating the Della Vario (TL) Series air conditioner. Covers safety precautions, parts identification, installation steps, basic and advanced functions, and troubleshooting.</p>
	<p>DELLA Air Conditioner Operations Manual: Usage, Maintenance, and Troubleshooting Guide</p> <p>This operations manual from DELLA provides detailed instructions for using, maintaining, and troubleshooting DELLA air conditioning units. It covers safety, specifications, remote control, various modes, Wi-Fi app features, and care tips.</p>

	<p>Amphenol MIL-C-5015 Connectors ADG, ADGC Series</p> <p>This document details the Amphenol MIL-C-5015 Bayonet Coupling Connectors, ADG and ADGC Series. It provides comprehensive information on connector types, styles, shells, contacts, insulators, insert arrangements, alternate positioning, contact dimensions, and ordering information. The series is designed to meet performance requirements for various coupler applications and withstand exposure to moisture, oil, and vibration.</p>
	<p>Zebra Android 14 Release Notes and Updates</p> <p>Comprehensive release notes for Zebra Android 14, detailing software packages, security updates, resolved issues, and device compatibility for various Zebra devices.</p>

Documents - Amphenol – PT06A-14-19S




PT Series
Miniature Cylindrical Connectors
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[pdf] Specifications Datasheet Guide

DatasheetPTSF06SE 20 41P Circular MIL Spec Connector PLUG Amphenol купить в розницу и оптомDOC017833689static chipdip ru lib 833 DOC017833689 |||

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[pdf] Specifications Datasheet Guide

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