

## AVLIS-CO 180-078-213R021

# AVLIS-CO 180-078-213R021 D-Sub Receptacle 78 Position Connector

User Manual

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the AVLIS-CO 180-078-213R021 D-Sub Receptacle 78 Position Connector. Please read this manual thoroughly before using the product to ensure safe and efficient performance. This connector is designed for reliable data and signal transmission in various electronic applications.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent damage to the connector or connected equipment, and to ensure personal safety:

- Ensure all power is disconnected from devices before connecting or disconnecting the D-Sub connector.
- Handle the connector by its housing; avoid touching the pins or sockets directly to prevent damage or contamination.
- Do not apply excessive force during connection or disconnection, as this can bend pins or damage the housing.
- Keep the connector away from moisture, extreme temperatures, and corrosive environments.
- Only use the connector for its intended purpose and within its specified electrical ratings.

## 3. PRODUCT OVERVIEW

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The AVLIS-CO 180-078-213R021 is a 78-position D-Subminiature (D-Sub) receptacle connector. D-Sub connectors are commonly used for serial communication, video output, and other data transfer applications.

This specific model features 78 contact positions, providing a high-density connection solution. The receptacle design means it contains sockets, designed to mate with a corresponding D-Sub plug connector which contains pins.



This image displays two AVLIS-CO 180-078-213R021 D-Sub Receptacle 78 Position Connectors. One connector is shown from the pin side, featuring gold-plated pins arranged in multiple rows. The other connector is shown from the socket side, revealing the corresponding receptacles. Both connectors have a metallic housing with mounting holes on the flanges.

## 4. SPECIFICATIONS

Feature	Detail
Model Number	180-078-213R021
Brand	AVLIS-CO
Connector Type	D-Sub Receptacle
Number of Contacts	78

Connection Method	Screw (for mounting)
Product Dimensions	152.4 x 101.6 x 50.8 inches
Item Weight	15 ounces
RoHS Compliance	Yes

## 5. SETUP AND INSTALLATION

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Follow these steps for proper installation of the D-Sub receptacle:

1. **Preparation:** Ensure the mating D-Sub plug connector and any associated cables are compatible with a 78-position D-Sub receptacle. Verify that the pinout configuration matches your application requirements.
2. **Mounting:** If the connector is to be panel-mounted, align the mounting holes on the connector's flanges with the corresponding holes on the panel or circuit board. Secure the connector using appropriate screws or hardware (not included).
3. **Connection:** Carefully align the D-Sub receptacle with the mating D-Sub plug. The trapezoidal shape of the connector ensures correct orientation. Gently push the plug into the receptacle until it is fully seated. Avoid forcing the connection.
4. **Securing (Optional):** If the mating plug has thumbscrews or locking clips, tighten them to secure the connection and prevent accidental disconnection.
5. **Verification:** After connection, visually inspect to ensure all pins are properly engaged and there are no bent or misaligned contacts.

## 6. OPERATING INSTRUCTIONS

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Once the AVLIS-CO 180-078-213R021 D-Sub Receptacle is correctly installed and connected to its mating plug, it functions as a passive conduit for electrical signals or data. No specific operational steps are required for the connector itself beyond ensuring a secure and stable connection.

- Ensure the connected devices are powered on according to their respective manuals.
- Monitor the performance of the connected system to confirm proper signal transmission through the connector.
- Avoid frequent connection and disconnection, as this can lead to wear and tear on the contacts.

## 7. MAINTENANCE

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Proper maintenance ensures the longevity and reliability of your D-Sub connector:

- **Cleaning:** If the connector contacts become dirty, gently clean them using a lint-free cloth moistened with isopropyl alcohol. Ensure the connector is completely dry before re-connecting. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the connector for any signs of physical damage, such as bent pins, cracked housing, or corrosion.
- **Storage:** When not in use, store the connector in a clean, dry, and dust-free environment. Consider using protective caps to cover the contacts.

## 8. TROUBLESHOOTING

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If you experience issues with your D-Sub connection, consider the following troubleshooting steps:

- **No Signal/Intermittent Connection:**

- Ensure the connector is fully seated and secured.
- Check for bent or broken pins/sockets on both the plug and receptacle.
- Inspect cables for damage or loose connections.
- Clean the contacts as described in the Maintenance section.

- **Difficulty Connecting:**

- Verify the correct orientation of the plug and receptacle. The trapezoidal shape prevents incorrect insertion.
- Check for any obstructions or debris in the connector ports.
- Ensure no pins are bent, preventing proper alignment.

- **Loose Connection:**

- Tighten any thumbscrews or engage locking clips on the mating plug.
- If the connector is mounted, ensure its mounting screws are secure.

## 9. WARRANTY AND SUPPORT

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For specific warranty information or technical support regarding the AVLIS-CO 180-078-213R021 D-Sub Receptacle, please refer to the documentation provided at the time of purchase or contact AVLIS-CO directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase. For general inquiries or to find more information about AVLIS-CO products, please visit the official AVLIS-CO website: [AVLIS-CO Brand Page](#)