

HARTING 09200162612

HARTING 0920 016 2612 Heavy Duty Connector Insert User Manual

Model: 09200162612

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the HARTING 0920 016 2612 Heavy Duty Connector Insert. This component is designed for robust electrical connections in industrial applications, featuring a 16+PE signal configuration and screw terminals. Please read this manual thoroughly before installation and operation to ensure proper functionality and safety.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines when handling or installing the connector insert:

- **Electrical Hazard:** Ensure all power sources are disconnected before installation or maintenance. Only qualified personnel should perform electrical work.
- **Proper Tools:** Use appropriate tools for installation to prevent damage to the connector or injury.
- **Environmental Conditions:** Do not expose the connector to conditions beyond its specified operating environment (e.g., extreme temperatures, excessive moisture) unless designed for such.
- **ROHS Compliance:** This product is ROHS compliant. Handle and dispose of according to local regulations.

3. PRODUCT OVERVIEW

The HARTING 0920 016 2612 is a 16+PE signal connector insert from the HAN A Series, designed for heavy-duty applications. It features screw terminals for secure wire connections and is rated for 16A and up to 250 Volts. This plug insert is a critical component for establishing reliable electrical connections in industrial control systems and machinery.



Figure 1: Front view of the HARTING 0920 016 2612 Heavy Duty Connector Insert. This image shows the light grey housing, the black rubber seal, and the metal pins for electrical connection. A screw terminal is visible on the side for wire attachment.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the connector insert:

1. **Prepare Wires:** Strip the insulation from the wire ends according to the recommended length for screw terminals. Ensure no stray wire strands are present.
2. **Insert Wires:** Loosen the screw terminals on the connector insert. Insert the prepared wire ends into the corresponding terminal points. Ensure correct polarity and pin assignment (refer to system wiring diagram).
3. **Secure Connections:** Tighten the screw terminals firmly to ensure a secure electrical and mechanical connection. Do not overtighten.
4. **Mount Insert:** Once all wires are connected, mount the connector insert into its designated housing. Ensure it clicks or locks securely into place.

- 5. **Final Check:** Visually inspect all connections for proper seating and ensure no wires are pinched or exposed.

5. OPERATING INSTRUCTIONS

The HARTING 0920 016 2612 is a passive connector component. Its operation involves establishing and maintaining a reliable electrical connection within a larger system. Once installed and connected to its mating half (e.g., a corresponding socket insert and housing), it facilitates the transmission of signals and power as designed by the system engineer.

- **Connection:** Ensure the plug insert is fully engaged with its mating socket to establish electrical contact.
- **Disconnection:** To disconnect, disengage the housing latching mechanism and carefully pull the connector halves apart. Do not pull by the cables.

6. MAINTENANCE

The HARTING 0920 016 2612 connector insert requires minimal maintenance. Regular inspections are recommended to ensure continued performance:

- **Visual Inspection:** Periodically check the connector for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** If necessary, gently clean the connector surfaces with a dry, lint-free cloth. Avoid using abrasive cleaners or solvents.
- **Terminal Tightness:** Re-check the tightness of the screw terminals periodically, especially in environments with vibration.

7. TROUBLESHOOTING

If you encounter issues with the connector, consider the following:

- **No Electrical Continuity:**
 - Check if wires are securely fastened in the screw terminals.
 - Verify that the connector insert is fully seated in its housing and properly mated with the corresponding socket.
 - Inspect for damaged pins or terminals.
- **Loose Connection:**
 - Ensure screw terminals are tightened to the recommended torque.
 - Check for proper wire gauge compatibility with the terminals.
- **Physical Damage:**
 - If the connector housing or pins are visibly damaged, replace the component.

For issues not resolved by these steps, contact a qualified electrician or HARTING technical support.

8. SPECIFICATIONS

Attribute	Value
Brand	HARTING
Model Number	09200162612

Attribute	Value
Connector Type	Screw
Terminal Type	Screw Terminal
Maximum Voltage	250 Volts
Product Dimensions	0.12 x 0.04 x 0.08 inches
Item Weight	5.28 ounces
ROHS Compliant	Yes

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided with your purchase or visit the official HARTING website. For technical support or further assistance, please contact HARTING customer service or your authorized distributor.

HARTING Official Website: www.harting.com

