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› [Crouse-Hinds 270 SA 3/4-Inch Aluminum Sheet Wedgenut User Manual](#)

## Crouse-Hinds 270 SA

# Crouse-Hinds 270 SA 3/4-Inch Aluminum Sheet Wedgenut User Manual

## 1. PRODUCT OVERVIEW

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The Crouse-Hinds 270-SA 3/4-Inch Aluminum Sheet Wedgenut is a specialized conduit outlet body designed for use in electrical conduit systems. Its primary function is to serve as a pull outlet for conductors during installation, facilitating the process of wiring within the system.

Key features of this product include:

- Functions as a pull outlet for conductors being installed.
- Provides openings for making splices and taps in conductors.
- Acts as a mounting outlet for lighting fixtures and wiring devices.
- Designed for connecting conduit sections and providing taps for branch conduit runs.
- Enables the creation of 90-degree bends in conduit runs.
- Offers access to conductors for maintenance and future system changes.
- Conduit hubs feature tapered threads and integral bushings for wire insulation protection.



An image showing the Crouse-Hinds 270 SA 3/4-Inch Aluminum Sheet Wedgenut, a silver-colored, elongated oval-shaped conduit outlet body with two screws on either end for securing the cover.

## 2. INSTALLATION GUIDELINES

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The 270 SA Wedgenut is designed for integration into existing or new conduit systems. Proper installation ensures optimal performance and safety.

1. **Preparation:** Ensure the conduit ends are clean, free of burrs, and properly reamed to prevent damage to wire insulation.
2. **Connection:** Thread the conduit into the tapered hubs of the wedgenut. The tapered threads are designed to create a secure and protective connection.
3. **Conductor Pulling:** Utilize the wedgenut as a pull outlet to guide conductors through the conduit system. Its design facilitates easier pulling and reduces friction.
4. **Splices and Taps:** If splices or taps are required, perform them within the body of the wedgenut, ensuring all connections are secure and insulated according to electrical codes.
5. **Mounting:** If used as a mounting outlet for fixtures or devices, ensure the wedgenut is securely fastened to the mounting surface.
6. **Cover Installation:** Once conductors are in place and any necessary work is completed, secure the cover using the provided screws to protect the internal components from environmental factors.

Always consult local electrical codes and standards for specific installation requirements.

## 3. FUNCTIONALITY AND PURPOSE

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The Crouse-Hinds 270 SA Wedgenut is a passive but critical component in electrical conduit infrastructure. It does not require active operation but serves several key purposes:

- **Wire Management:** Facilitates the pulling and routing of electrical conductors through conduit runs.
- **Access Points:** Provides accessible points within the conduit system for making necessary wire splices,

taps, or for future modifications and maintenance.

- **Directional Changes:** Allows for smooth 90-degree directional changes in conduit runs, maintaining the integrity of the wiring.
- **Protection:** The integral bushings and robust aluminum construction protect wire insulation from abrasion and the internal wiring from external elements once the cover is secured.

## 4. CARE AND MAINTENANCE

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To ensure the longevity and continued performance of the Crouse-Hinds 270 SA Wedgenut, periodic inspection and basic maintenance are recommended:

- **Visual Inspection:** Regularly inspect the wedgenut and its connections for any signs of physical damage, corrosion, or loose components.
- **Cleanliness:** Keep the exterior of the wedgenut clean from dust, dirt, and debris. Use a dry cloth or a mild, non-abrasive cleaner if necessary.
- **Connection Integrity:** Periodically check that the conduit connections are tight and secure.
- **Cover Security:** Ensure the cover screws remain tight to maintain the integrity of the enclosure and protect the internal wiring.

Always disconnect power before performing any maintenance on electrical systems.

## 5. TROUBLESHOOTING

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While the 270 SA Wedgenut is a simple, passive component, issues can arise from improper installation or external factors. Here are some common troubleshooting points:

- **Conduit Not Fitting:** Ensure the conduit size matches the 3/4-inch specification of the wedgenut. Check for damaged threads on either the conduit or the wedgenut.
- **Loose Connections:** If wires are exposed or connections feel unstable, re-tighten the conduit connections and ensure the cover is securely fastened.
- **Wire Damage During Pulling:** Ensure the conduit ends are properly reamed and the integral bushings of the wedgenut are intact to prevent insulation damage during wire pulling.
- **Corrosion:** If corrosion is observed, especially in harsh environments, consider the material's suitability for the application. Aluminum is generally resistant but can corrode under specific conditions.

For persistent issues or complex electrical problems, consult a qualified electrician.

## 6. TECHNICAL SPECIFICATIONS

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Specification	Detail
Manufacturer	Crouse-Hinds
Part Number	270 SA
Item Weight	1.6 ounces
Package Dimensions	4.2 x 1.2 x 0.2 inches
Item Model Number	270 SA

Specification	Detail
Material	Aluminum
Item Package Quantity	1
Batteries Required?	No
ASIN	B005GZSDRQ
Date First Available	August 26, 2011

## 7. WARRANTY AND SUPPORT

For specific warranty information regarding the Crouse-Hinds 270 SA 3/4-Inch Aluminum Sheet Wedgenut, please refer to the documentation provided at the time of purchase or contact Crouse-Hinds directly through their official website or customer service channels. Warranty terms typically cover manufacturing defects.

For technical support, installation queries, or any other assistance, please reach out to Crouse-Hinds customer support. Their contact information can usually be found on their official website or product packaging.