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› Hopkins Towing Solutions 48255 25' 4 Wire Flat Trailer Side Y-Harness Connector User Manual

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Model: 48255

1. INTRODUCTION AND OVERVIEW

The Hopkins Towing Solutions 48255 Y-Harness Connector is a 25-foot wiring kit designed for maintaining or re-wiring trailer lighting systems. It features a wishbone design that allows for two brown wires to be run to each taillight, ensuring complete weather protection from the connector to the taillights. This product simplifies trailer wiring by eliminating unnecessary splicing, making installation easy for both new setups and rewiring of lightweight trailers.





Figure 1: Product packaging illustrating the Y-Harness installation concept and key benefits such as eliminating splicing and providing weather protection. The packaging also indicates compatibility with vehicles equipped with a 4-flat connector.

2. PRODUCT FEATURES

- 25 feet in length for versatile application on various trailer sizes.
- Comprehensive wiring kit suitable for both maintaining existing trailer wiring and new installations.
- Wishbone design allows two brown wires to be routed efficiently to each taillight.
- Equipped with corrosion-resistant terminals to ensure long-lasting electrical conductivity.
- Designed for ease of use and straightforward installation.

3. SAFETY INFORMATION AND WARNINGS

WARNING: This product can expose you to chemicals including DEHP, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Always disconnect power from the vehicle's electrical system before attempting any wiring or installation. Ensure all connections are secure and properly insulated to prevent short circuits, electrical hazards, and corrosion. Use appropriate personal protective equipment during installation.

4. SETUP AND INSTALLATION

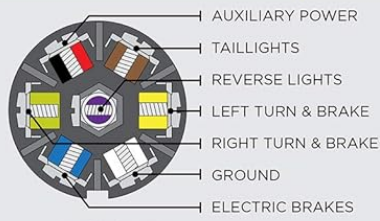
The Hopkins 48255 Y-Harness is specifically designed for trailers requiring a 4-flat wiring connection. Its 25-foot length

provides ample reach for various trailer sizes, simplifying the wiring process.

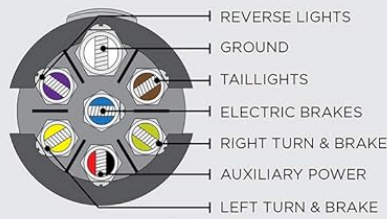
Installation Steps:

1. **Prepare Trailer:** Ensure the trailer's existing wiring is disconnected from any power source. Identify the locations for the taillights and ensure they are clean and accessible.
2. **Connect Taillights:** The Y-harness features two brown wires designed to run to each taillight. Connect the appropriate wires from the Y-harness to your trailer's left and right taillights. The wishbone design simplifies this process, eliminating the need for additional splicing.
3. **Route Wiring:** Carefully route the wiring along the trailer frame, securing it with appropriate fasteners (e.g., zip ties, wire clips – not included) to prevent damage from road debris, snagging, or excessive movement. Ensure the wiring is clear of moving parts and hot surfaces.
4. **Connect to Vehicle:** The main connector of the Y-harness is a 4-flat plug. Connect this plug to the corresponding 4-flat receptacle on your towing vehicle. Ensure a secure and snug fit.
5. **Test Connections:** Before towing, test all trailer lights (running lights, brake lights, and turn signals) to ensure they function correctly. Have an assistant verify the lights while you operate them from the vehicle.

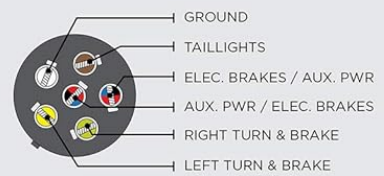
VEHICLE SIDE



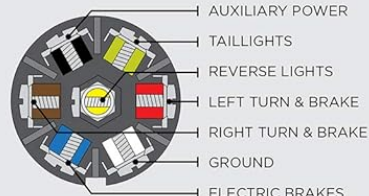
7 BLADE (SAE STANDARD)



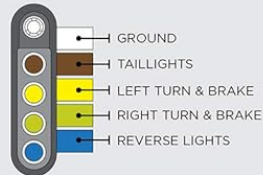
7 ROUND



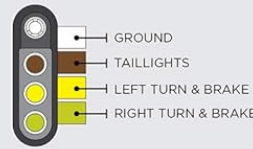
6 ROUND



7 BLADE (RV STANDARD)



5 FLAT

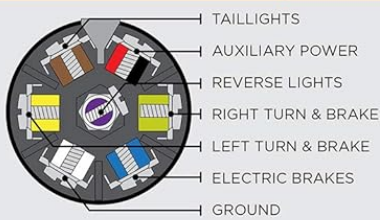


4 FLAT

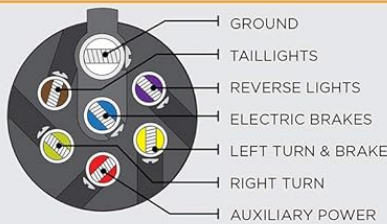


4 ROUND

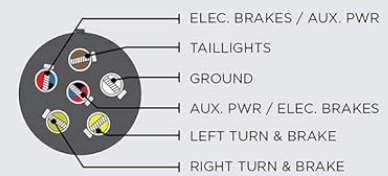
TRAILER SIDE



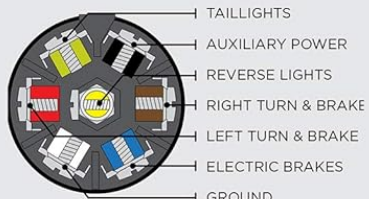
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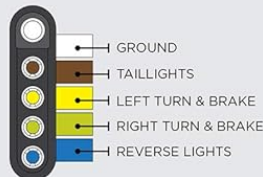
7 ROUND



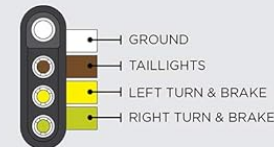
6 ROUND



7 BLADE (RV STANDARD)



5 FLAT



4 FLAT



4 ROUND

4 FLAT Y-HARNESS WIRING DIAGRAM

Time to wire up or rewire your trailer? A Y-Harness provides all the wire needed to get to every light on your trailer.

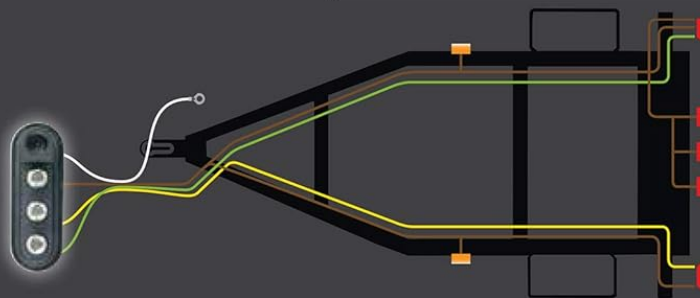


Figure 2: This diagram illustrates various vehicle and trailer side electrical connectors, with a specific focus on the 4-flat Y-harness wiring. It shows how the Y-harness connects to the trailer's taillights and then to the vehicle's 4-flat connector, providing power for running lights, turn signals, and brake lights.

5. OPERATING INSTRUCTIONS

Once properly installed, the Hopkins 48255 Y-Harness operates automatically in conjunction with your vehicle's lighting system. Ensure the connection between the vehicle and trailer is secure and fully engaged before each use. Disconnect the harness when not in use or when parking the trailer for extended periods.

6. MAINTENANCE

Regular inspection of the Y-harness is recommended to ensure optimal performance and safety. Periodically check the

wiring for any signs of wear, fraying, cuts, or damage. Inspect the connector terminals for corrosion; clean them as needed using a suitable electrical contact cleaner and a small brush to ensure optimal electrical contact. Store the connector in a dry place when not in use to prevent moisture damage and prolong its lifespan.

7. TROUBLESHOOTING

- **No Trailer Lights:**

- Check the connection between the vehicle and the Y-harness. Ensure it is fully seated and locked.
- Inspect the Y-harness wiring for any visible damage, breaks, or loose connections.
- Verify that the vehicle's towing fuse is not blown. Consult your vehicle's owner's manual for fuse box location and fuse identification.
- Ensure the trailer's light bulbs are functional and properly installed.

- **Intermittent Lights:**

- Clean any corrosion from the connector terminals on both the vehicle and the Y-harness.
- Ensure all connections, including those to the trailer lights, are tight and secure.

8. SPECIFICATIONS

- **Model:** 48255
- **Length:** 25 feet
- **Connector Type:** 4-wire Flat
- **Cable Type:** Flat Trailer Side Y-Harness Connector
- **Material:** Plastic
- **Approximate Dimensions (Product in Package L x W x H):** 6.7 x 3.9 x 3.2 inches
- **UPC:** 079976482554

9. WARRANTY

This Hopkins Towing Solutions product is covered by a manufacturer's warranty. For specific details regarding warranty coverage, terms, and conditions, please refer to the official Hopkins Towing Solutions website or contact customer support directly.

10. SUPPORT

For technical assistance, product inquiries, or support, please contact Hopkins Towing Solutions directly:

Phone: 1-800-835-0129

Website: www.HopkinsTowingSolutions.com

You may also find additional product information and resources by scanning the QR code found on the product packaging, which links to qr.hopkinstowingsolutions.com/48255_PKG.