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> Agrieyes AG-CT018 7-Pin Trailer Wiring Harness with Junction Box User Manual

Agrieyes AG-CT018

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Model: AG-CT018

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Agrieyes AG-CT018 7-Pin Trailer Wiring Harness with Junction Box. This product is designed to provide a reliable electrical connection between your towing vehicle and trailer, ensuring proper function of lights and brakes. Please read this manual thoroughly before installation and use.



Image: The Agrieyes 7-Way Trailer Wiring Harness Kit providing electrical connection between a towing vehicle and a travel trailer.

PRODUCT FEATURES

- **Simple Wiring:** Features a 7-gang junction box with color-coded terminals for easy identification and connection to the towing vehicle's electrical system.

- **Reliable Connection:** Equipped with a dual-pin design 7-pin plug for stable and consistent power delivery.
- **Sealed Protection:** Includes 4 open and 4 closed rubber grommets for the heavy-duty junction box, ensuring waterproof and weatherproof performance.
- **Premium Material:** Constructed with a flame-retardant ABS junction box and high-conductivity copper wire for durability and long-term use.
- **Versatile Application:** Ideal for RVs, trailers, campers, caravans, food trucks, and other towing vehicles.

WHAT'S IN THE BOX

- 1 x Agrieyes 7 Pin Trailer Wiring Harness with 7 Gang Junction Box

SETUP AND WIRING GUIDE

Proper wiring is crucial for the safe operation of your trailer. Follow the color-coded guide carefully. The junction box simplifies connections by providing clearly labeled terminals.

Junction Box Wiring

The 7-gang junction box features color-coded terminals corresponding to standard trailer wiring functions. Refer to the diagram below for correct connections.

EASY WIRING GUIDE

7 Color-Coded Wires for Quick Setup



	JUNCTION BOX	RV STANDARD	TRAILER STANDARD	TRAILER 4-WAY
Ground	●	●	●	●
12V Charge Line/Aux	●	●	● or ●	
Reverse Lights	●	●	●	
Left Turn/Stop	●	●	●	●
Running/Tail Lights	●	●	●	●
Right Turn/Stop	●	●	●	●
Electric Brakes	●	●	●	

Image: An easy wiring guide illustrating the color codes for the 7-pin trailer harness junction box, and how they correspond to RV standard, trailer standard, and trailer 4-way wiring.

7-Pin Trailer Wiring Color Code

Wire Color	Function
White	Ground
Black	12V Auxiliary Power
Yellow	Reverse Lights
Red	Left Turn/Stop
Green	Running Lights
Brown	Right Turn/Stop
Blue	Electric Brake

Important Note: While this harness uses standard color codes, always verify the functions of your towing vehicle's wiring and trailer's wiring against this diagram before making connections. Discrepancies can occur

with different vehicle manufacturers.

7-Pin Plug Connection

The 7-pin plug is designed for a secure and stable connection. Each pin corresponds to a specific function as detailed below.

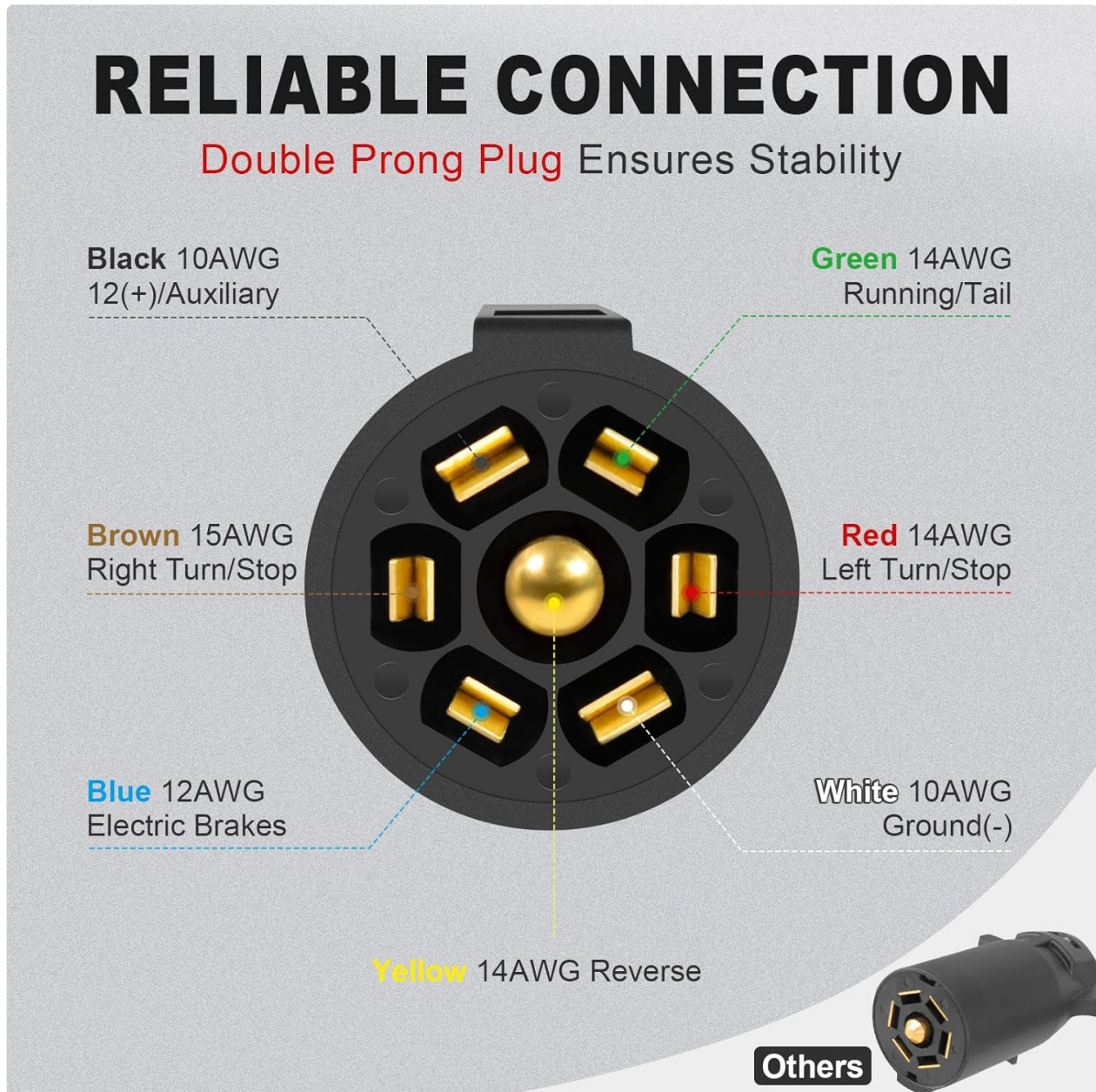


Image: A detailed diagram of the 7-pin trailer plug, indicating the function and wire gauge for each of its connections.

Junction Box Protection

The junction box is equipped with rubber grommets to protect the wiring from environmental elements. Use the closed grommets for unused entry points to ensure optimal sealing.

RAIN-READY PROTECTION

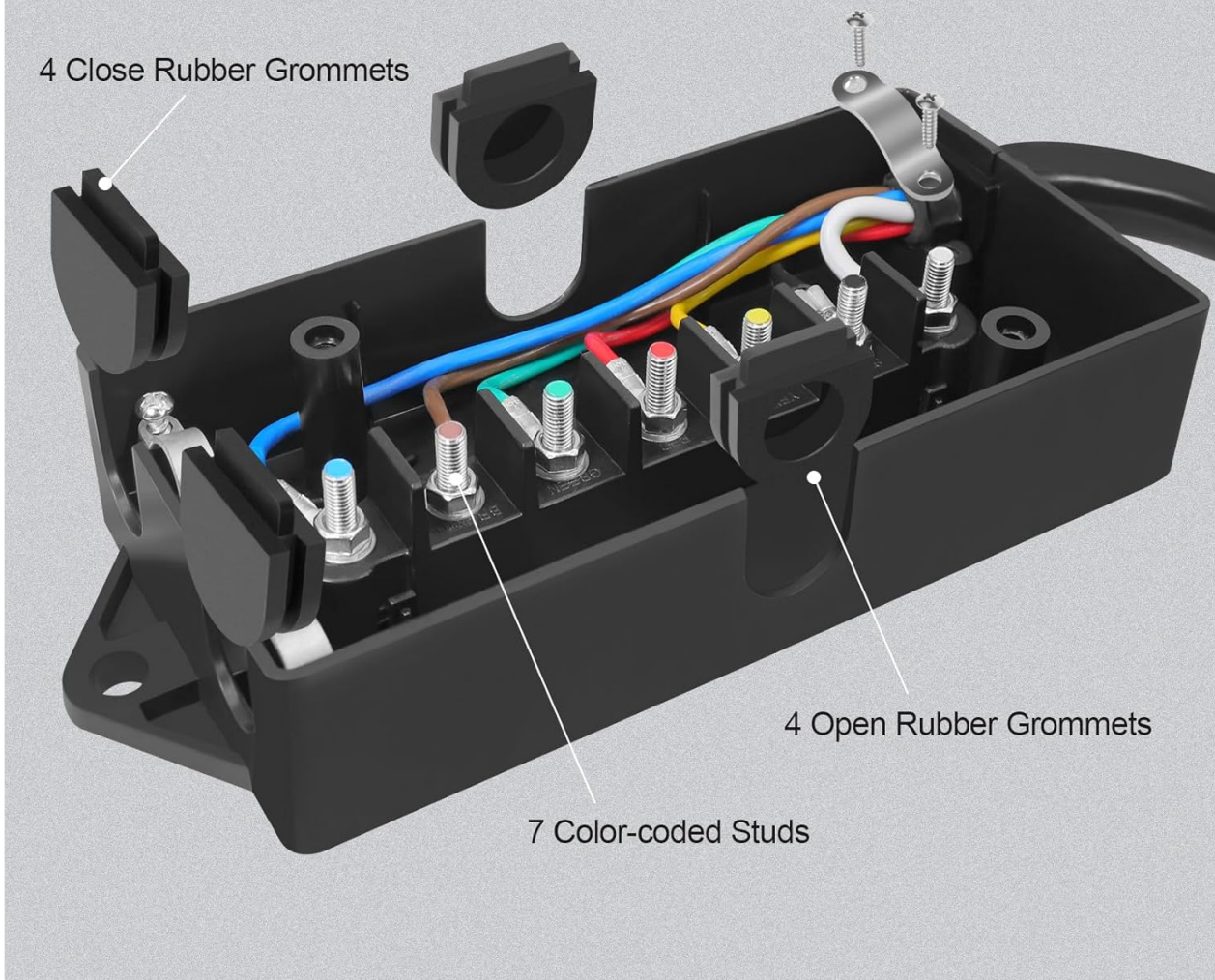


Image: An internal view of the junction box, highlighting the placement of 4 closed and 4 open rubber grommets, along with the 7 color-coded studs for wiring connections.

Cable Construction

The harness features high-quality copper wires encased in a tough rubber sleeve for durability and efficient conductivity.

POWERFUL CONNECTION

Copper Wires Wrapped in Tough Rubber

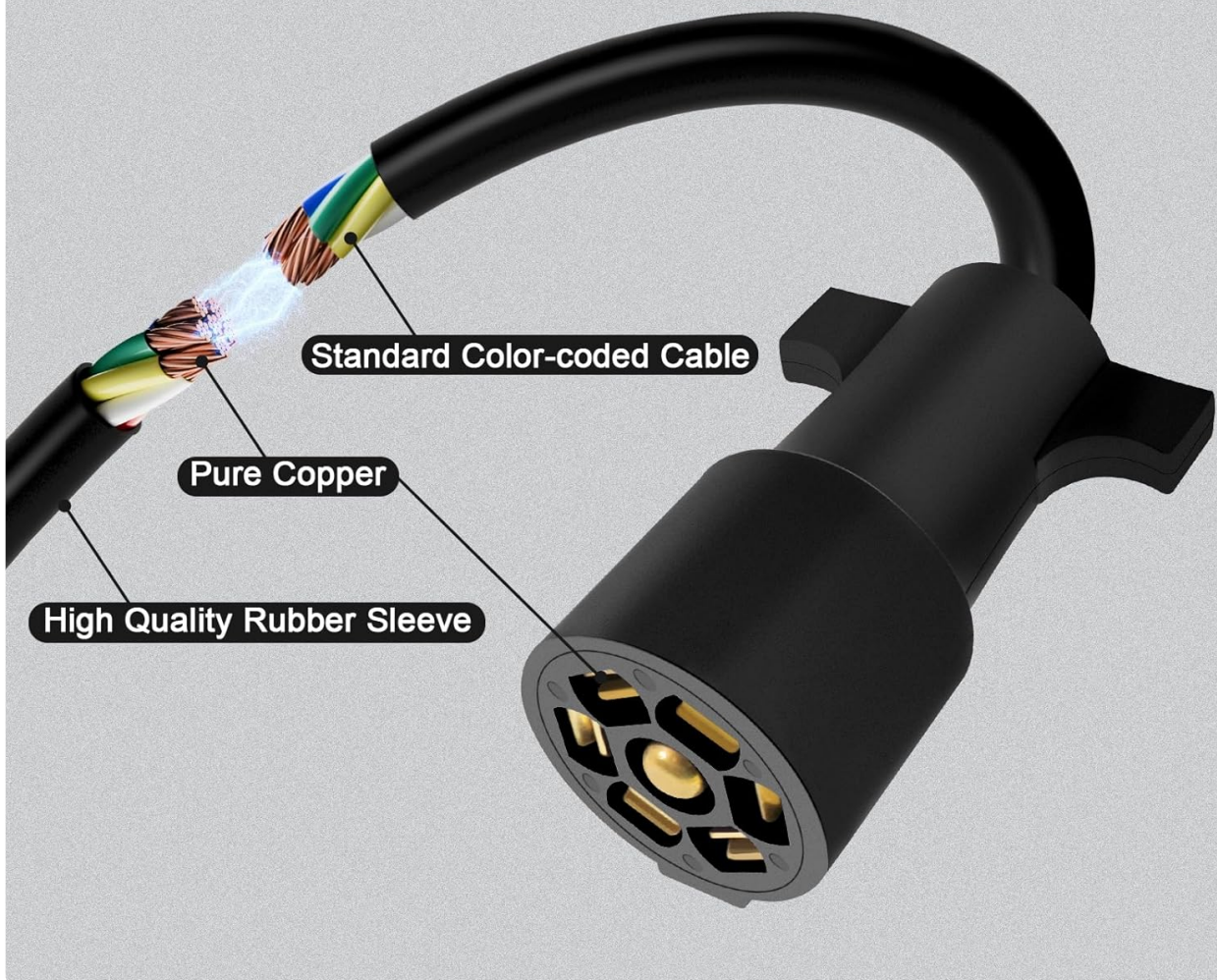


Image: A cross-section view of the trailer wiring harness, illustrating the pure copper wires protected by a high-quality rubber sleeve.

OPERATING INSTRUCTIONS

Once the wiring harness is correctly installed and connected to both the towing vehicle and the trailer:

1. Ensure all connections are secure and free from debris.
2. Test all trailer lights (running lights, brake lights, turn signals) and the electric brake function before each trip.
3. Confirm that the 7-pin plug is fully inserted into the vehicle's receptacle and the locking mechanism (if present) is engaged.

MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your wiring harness:

- **Inspect Connections:** Periodically check the 7-pin plug and junction box connections for corrosion, loose wires, or damage.

- **Clean Contacts:** Keep the electrical contacts of the 7-pin plug clean and free of dirt or grease. Use a dielectric grease for added protection against moisture and corrosion.
- **Check Cable Integrity:** Examine the entire length of the cable for any cuts, abrasions, or signs of wear. Replace the harness if significant damage is found.
- **Grommet Inspection:** Ensure all rubber grommets on the junction box are properly seated and intact to maintain weatherproof sealing.

TROUBLESHOOTING

If you experience issues with your trailer's electrical system, consider the following troubleshooting steps:

- **No Lights/Signals:**
 - Check the connection of the 7-pin plug to the towing vehicle. Ensure it is fully seated.
 - Inspect the wiring inside the junction box for loose or corroded connections.
 - Verify the towing vehicle's fuses related to trailer lighting.
 - Ensure the trailer's bulbs are functional and properly installed.
- **Incorrect Light Function (e.g., brake light activates turn signal):**
 - Re-verify all wiring connections in the junction box against the provided wiring diagram in this manual. Incorrect wire pairing is a common cause.
 - Confirm that the towing vehicle's wiring matches standard functions or has been correctly adapted.
- **No Electric Brakes:**
 - Check the blue wire connection for the electric brake in the junction box and at the 7-pin plug.
 - Ensure your towing vehicle's brake controller is properly installed and functioning.

SPECIFICATIONS

Attribute	Detail
Brand	Agrieyes
Model Number	AG-CT018
Material	ABS, Copper, Rubber
Item Weight	3.2 Pounds
Connector Type	7 Way Trailer Plug
Recommended Uses	Plug and Play for RVs, Trailers, Campers, Caravans, Food Trucks, Towing Vehicles
Cord Length	8 ft
Junction Box Dimensions	Approx. 6.7" L x 3.3" W x 2.3" H
Plug Dimensions	Approx. 1.6" Diameter

DIMENSION



Image: A diagram illustrating the key dimensions of the Agrieyes 7-pin trailer wiring harness, including the junction box and the plug.

WARRANTY AND SUPPORT

Agrieyes offers a one-year warranty for this product. If you encounter any problems during use, please contact us. We are committed to resolving issues within 24 hours.

For support, please refer to the contact information provided with your purchase or visit the official Agrieyes store on Amazon.

Seller: Agrieyes Direct