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RED WOLF XC02-2103

RED WOLF Car Radio ISO Wiring Harness User Manual

Model: XC02-2103

Introduction

This manual provides detailed instructions for the installation and use of the RED WOLF Car Radio ISO Wiring Harness. This harness is designed to facilitate the connection of an aftermarket stereo head unit to your vehicle's existing wiring system without the need for cutting or splicing original factory wires. It ensures a secure and reliable electrical connection for optimal audio performance.

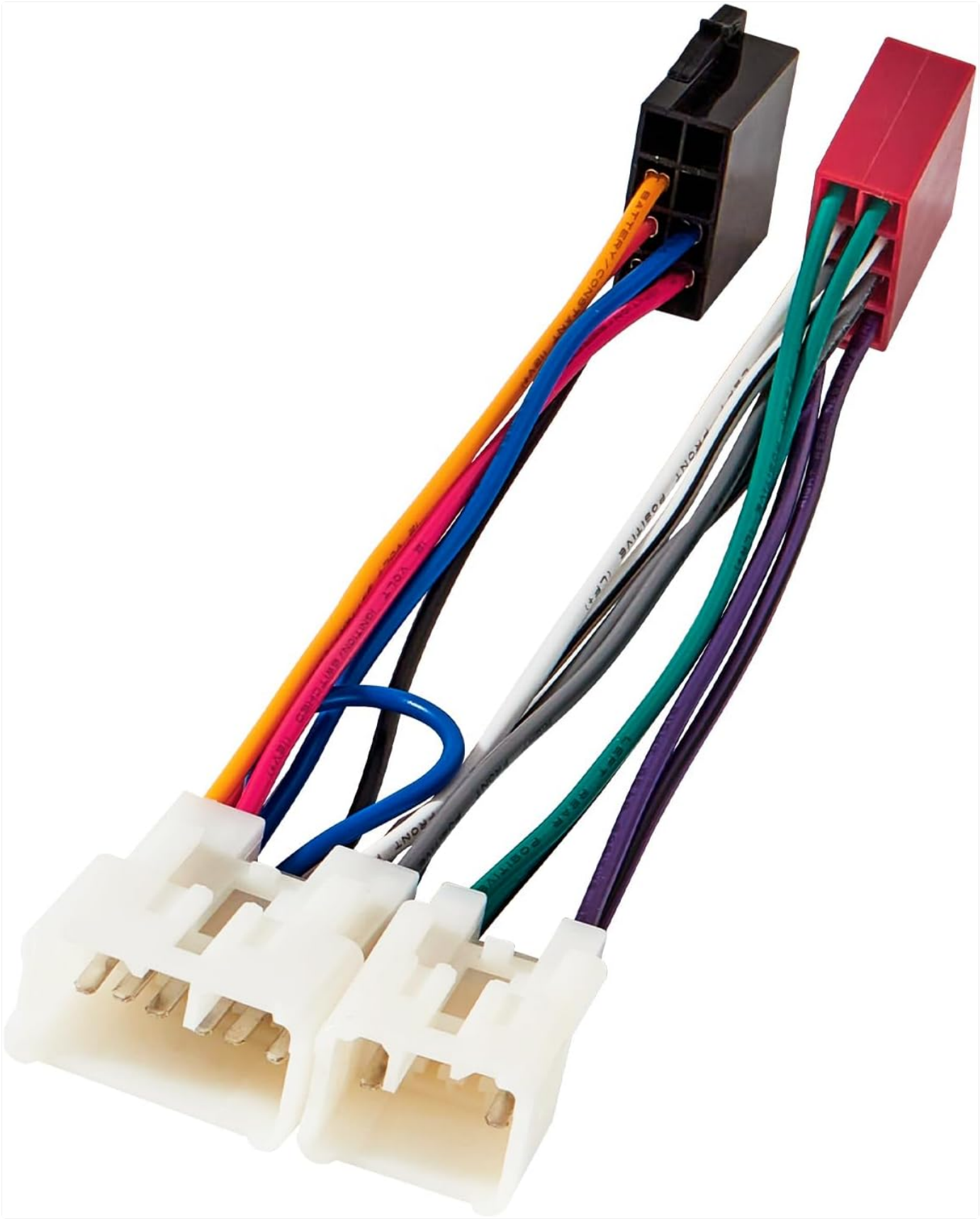

Figure 1: RED WOLF Car Radio ISO Wiring Harness, showing the two main connectors and colored wires.

Compatibility

This ISO wiring harness is compatible with most aftermarket radios that utilize an ISO connector, including Android, Peterbilt Kenworth, and Bose head units. It is specifically designed for vehicles with a Non-JBL sound system.

Compatible Vehicle Models (Non-JBL System Only):

- **Toyota:**
  - Tacoma: 2005-2021
  - RAV4: 1996-2019 (Non-JBL)
  - Tundra: 2010-2018
  - Camry: 2002-2018
  - 4Runner: 1992-2019
  - Highlander: 2000-2019
  - Corolla: 1993-2019
  - Prius: 2001-2019
  - Prius C: 2012-2018
  - Prius Prime: 2017-2019
  - Prius V: 2012-2017
  - FJ Cruiser: 2007-2017 (Non-JBL)
  - Yaris: 2006-2018
  - Avalon: 1999-2018
  - Matrix: 2004-2014
- **Scion:**
  - FR-S: 2013-2018
  - iM: 2014-2018
  - tC: 2005-2018
  - iQ: 2009-2018
- **Subaru:**
  - WRX: 2016-2018 (and 2012-2015 with navigation)
  - Outback: 2015-2018 (and 2012-2014 with navigation)
  - Legacy: 2015-2018 (and 2012-2014 with navigation)
  - Impreza: 2015-2018 (and 2012-2014 with navigation)
  - Forester: 2016-2018 (and 2012-2015 with navigation)
  - Crosstrek: 2015-2018 (and 2012-2014 XV with navigation)
  - BRZ: 2013-2018

Features

- **Plug & Play Installation:** Designed for direct connection without cutting or splicing OEM factory wire harnesses.
- **High-Quality Material:** Made with pure copper core for excellent conductivity and safe operation.
- **Durability:** Features flexible PVC insulation, offering cold tolerance down to -40°F, high-temperature resistance up to 221°F, and strong malleability.
- **Direct Replacement:** Perfectly replaces old or damaged head unit wiring.



Figure 2: Illustration of the pure copper core and durability features of the wiring harness.

Installation Guide

Follow these steps for a smooth installation of your RED WOLF Car Radio ISO Wiring Harness. It is recommended to disconnect the vehicle's battery before beginning any electrical work.

1. **Prepare the Dashboard:** Carefully use a plastic pry tool or a flathead screwdriver (if necessary, with caution to avoid damage) to pry off the plastic trim surrounding your car's stereo head unit. This trim often extends down to the cigarette lighter area. Listen for audible snaps as clips release; this is normal.
2. **Access the Head Unit:** Once the trim is removed, locate and remove the bolts securing the head unit. These are typically 10mm bolts, often four in total, located on the sides of the unit. A ratchet with a 10mm socket is recommended for ease.
3. **Remove Old Head Unit:** Gently pull the existing head unit out from the dashboard. Unscrew any screws holding the radio chassis to the mounting brackets. Disconnect all existing wiring harnesses and the antenna cable from the back of the old radio.
4. **Connect New Head Unit:** Connect the RED WOLF ISO wiring harness to your new aftermarket radio. Ensure each wire from the harness is matched correctly to its corresponding function on the new stereo.
5. **Connect to Vehicle:** Plug the vehicle-specific connector of the RED WOLF harness into your car's factory wiring harness. Reconnect the antenna cable to the new radio's ANT port. Ensure any ground wires are securely attached to a suitable grounding point, typically a metal screw on the vehicle's chassis near the radio opening.
6. **Secure New Head Unit:** Slide the new head unit into the dashboard opening. Secure it with the bolts removed in step 2. Ensure all connections are firm and wires are not pinched.
7. **Reinstall Trim:** Carefully align the plastic trim removed in step 1 and push it back into place until all clips snap securely.
8. **Test Functionality:** Reconnect the vehicle's battery. Turn the ignition key to the "ON" position and test the new radio's functionality, including power, audio output, and any other features like navigation or Bluetooth.

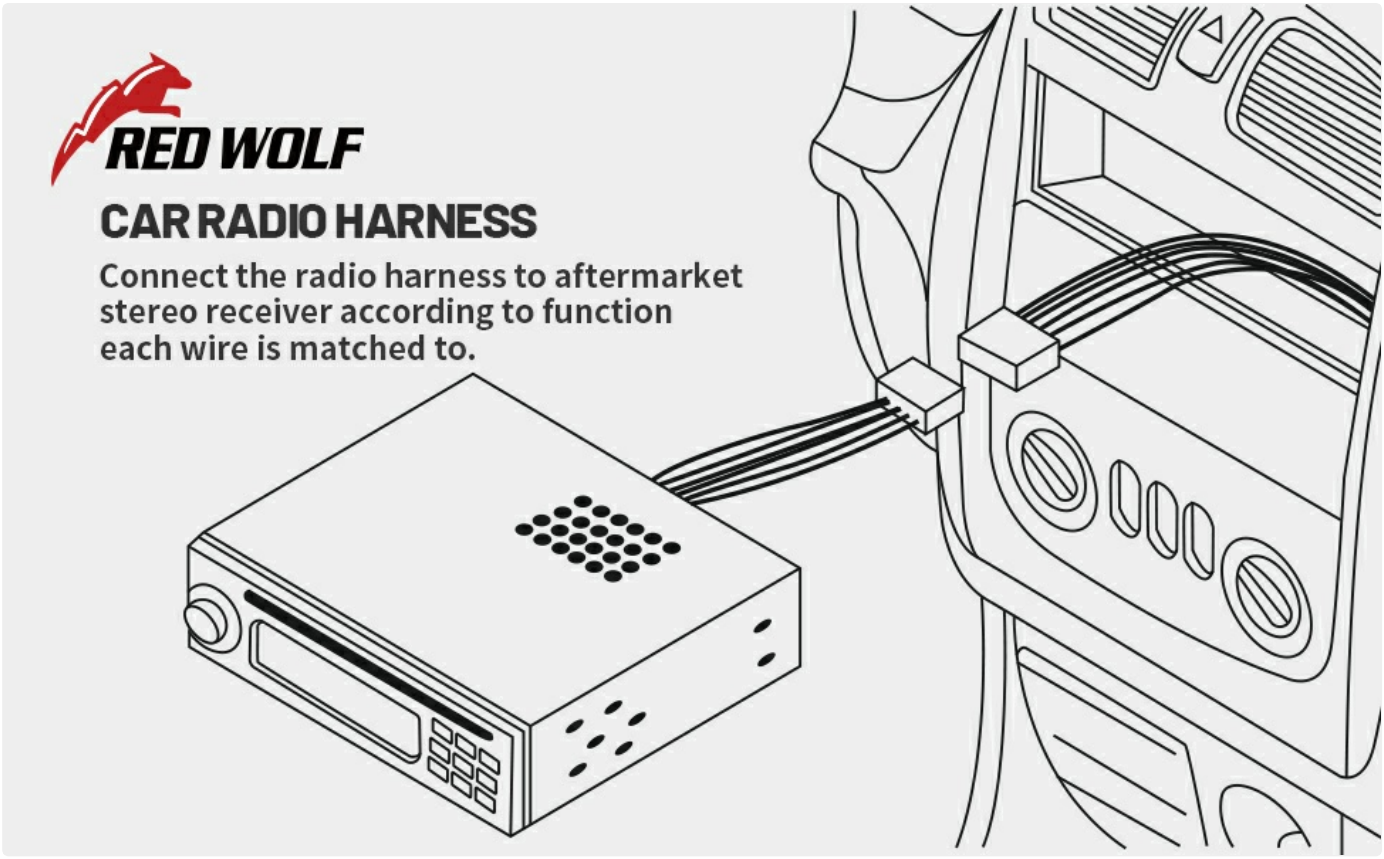

Figure 3: Visual guide for connecting the wiring harness to an aftermarket stereo.

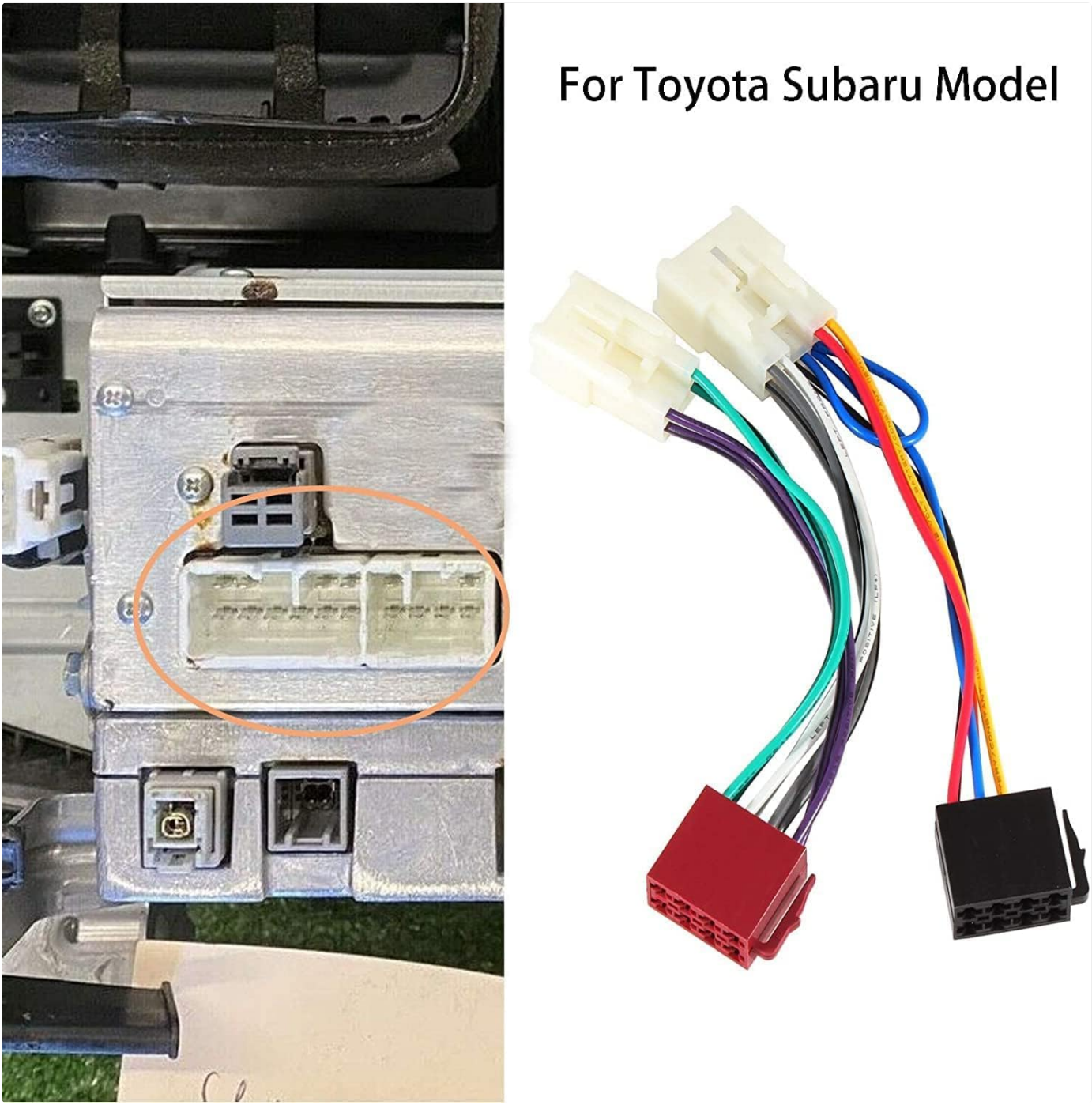

Figure 4: Example of a factory radio connector and the RED WOLF harness for Toyota/Subaru models.

Operating Instructions

Once the RED WOLF Car Radio ISO Wiring Harness is correctly installed, its operation is integrated with your aftermarket head unit. The harness provides the necessary power and signal connections for the stereo to function as designed.

- Ensure all connections are secure before operating the vehicle.
- Refer to your aftermarket stereo's user manual for specific operating instructions, as the harness facilitates the connection but does not alter the stereo's functionality.

Maintenance

The RED WOLF Car Radio ISO Wiring Harness is designed for long-term reliability and requires minimal maintenance. Once installed correctly, it should provide stable performance.

- **Periodic Checks:** If you experience any audio issues or power interruptions, it is advisable to check the harness

connections for looseness or corrosion.

- **Avoid Stress:** Ensure the wiring is not under excessive tension or pinched by dashboard components, which could lead to damage over time.
- **Cleaning:** Keep the area around the harness connections free from dust and debris.

Troubleshooting

If you encounter issues after installing the wiring harness, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
New stereo does not power on.	Loose power connection (ACC or BATT). Blown fuse in the vehicle or stereo. Incorrect wiring of the harness.	Check all power connections on the harness and stereo. Inspect vehicle and stereo fuses; replace if necessary. Verify wire-to-wire connections between harness and stereo.
No sound from speakers.	Loose speaker wire connections. Incorrect speaker polarity. Stereo settings (e.g., mute, balance/fader).	Ensure all speaker wires are securely connected. Check speaker wire polarity (positive to positive, negative to negative). Adjust stereo audio settings.
Intermittent power or sound.	Loose or corroded connections. Damaged wiring.	Re-check all connections for tightness and cleanliness. Inspect the harness for any visible damage or frayed wires.
Harness does not fit vehicle connector.	Incorrect harness model for your vehicle. Vehicle has a JBL or premium sound system (this harness is for Non-JBL).	Double-check your vehicle's make, model, and year against the compatibility list. Confirm if your vehicle has a JBL or premium sound system. If so, a different harness may be required.

Specifications

Attribute	Detail
Brand	RED WOLF
Model Number	XC02-2103
Material	Pure Copper Core, Flexible PVC Insulation
Cable Type	Copper
Connector Type	ISO Plug
Item Weight	0.04 Kilograms (1.44 ounces)
Package Dimensions	9.21 x 3.82 x 0.71 inches
Manufacturer	RED WOLF
First Available Date	October 31, 2020

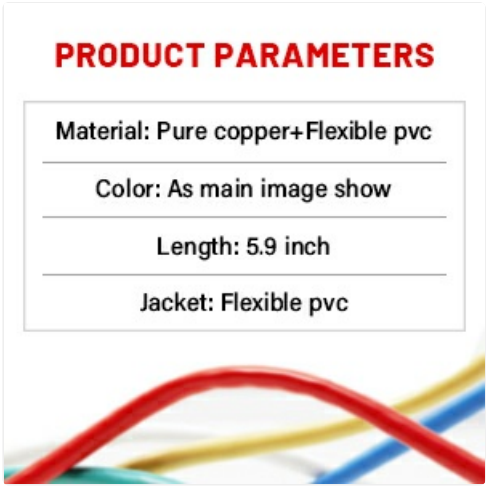

Figure 5: Summary of key product parameters.

For further assistance, please contact RED WOLF customer support.

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