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KnuKonceptz KFX4BK

KnuKonceptz Kolossus Flex Kable 4 Gauge Power Wire Instruction Manual

1. Product Overview

The KnuKonceptz Kolossus Flex Kable is a high-quality 4 gauge power wire designed for various applications including automotive, truck, solar, and marine systems. This cable features 2058 strands of tinned oxygen-free copper (OFC) for optimal conductivity and corrosion resistance. Its ultra-flexible matte soft-touch PVC jacket ensures durability and ease of installation, even in challenging environments.

- **Construction:** 2058 Strands of Tinned Oxygen Free Copper (OFC)
- **Jacket:** Ultra Flex Matte Soft Touch PVC
- **Standards:** Exceeds American Wire Gauge (AWG) Standards
- **Applications:** Auto, Truck, Solar, and Marine
- **Max Load:** 150 Amps @ 20 feet



Figure 1.1: KnuKonceptz Kolossus Flex Kable 4 Gauge Power Wire, coiled.



Figure 1.2: Cross-section view of the Kolossus Flex Kable, highlighting the numerous tinned copper strands.

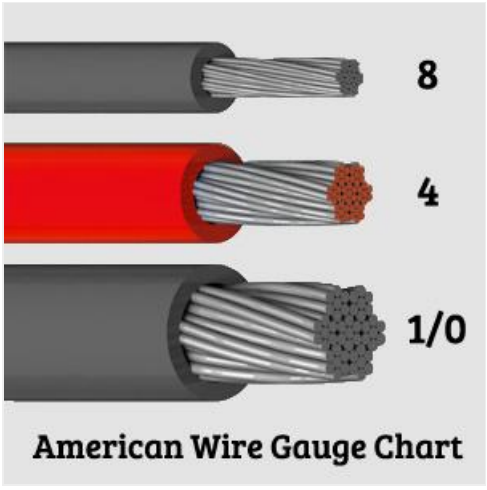


Figure 1.3: Diagram showing the internal construction of the wire, including the PVC jacket, tin coating, and oxygen-free copper strands.

2. Installation Guide

Proper installation of power wire is crucial for safety and optimal performance. Always consult a professional if you are unsure about any steps. Ensure all power sources are disconnected before beginning installation.

2.1 Safety Precautions

- Disconnect the vehicle's battery or power source before handling electrical wiring.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Use appropriate fuses or circuit breakers as close to the power source as possible.

2.2 Installation Steps

1. **Plan Your Route:** Determine the shortest and safest path for the power wire from the power source (e.g., battery) to the component (e.g., amplifier). Avoid routing near moving parts, sharp edges, or heat sources.
2. **Measure and Cut:** Carefully measure the required length of the Kolossus Flex Kable. Cut the wire using a sharp, heavy-duty wire cutter to ensure a clean cut.
3. **Strip Insulation:** Strip approximately 1/2 to 3/4 inch of the PVC insulation from both ends of the wire using a wire stripper appropriate for 4 gauge wire. Be careful not to cut or damage the copper strands.
4. **Terminate Connections:** Crimp high-quality ring terminals or ferrules onto the stripped ends of the wire. Ensure a tight and secure crimp that fully encompasses all copper strands. Soldering can be used in conjunction with crimping for enhanced connection integrity.
5. **Connect to Power Source:** Connect one end of the terminated power wire to the positive terminal of your power source (e.g., battery). Install an appropriate fuse holder with a fuse rated for your application as close to the battery as possible (within 18 inches is recommended).
6. **Connect to Component:** Route the wire to your component and connect the other terminated end to the positive power input terminal of the component.
7. **Secure Wiring:** Use cable ties or clamps to secure the power wire along its route, preventing it from moving, chafing, or interfering with other vehicle systems.
8. **Verify Connections:** Double-check all connections for tightness and proper insulation. Ensure no bare wire is exposed that could cause a short circuit.
9. **Reconnect Power:** Once all connections are secure and verified, reconnect the power source.



Figure 2.1: Example of stripped wire end, ready for termination.

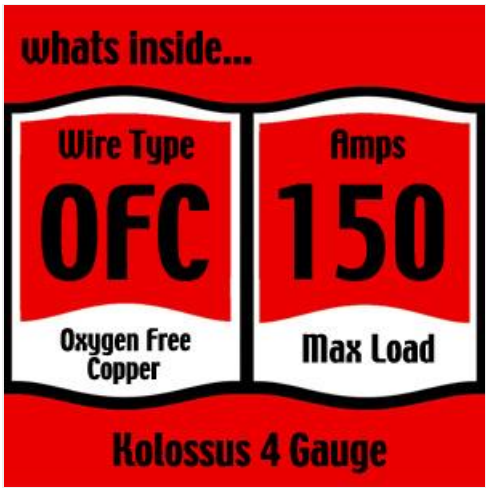


Figure 2.2: American Wire Gauge (AWG) Chart for reference on wire sizing.

3. Usage

The KnuKonceptz Kolossus Flex Kable is a passive electrical conductor. Its primary function is to efficiently transfer electrical power from a source to a component. Once properly installed, the wire itself does not require active operation. Its performance is directly related to the quality of its installation and the integrity of its connections. Ensure that the current draw of your connected components does not exceed the maximum load capacity of the wire (150 Amps for 4 gauge at 20 feet) to prevent overheating and potential damage.

4. Care and Maintenance

To ensure the longevity and continued performance of your Kolossus Flex Kable, follow these maintenance guidelines:

- **Regular Inspection:** Periodically inspect the entire length of the visible wire for any signs of damage, such as cuts, abrasions, or discoloration of the jacket.
- **Check Connections:** Ensure that all terminals and connections remain tight and free from corrosion. Loose connections can lead to resistance, heat buildup, and power loss.
- **Cleanliness:** Keep the wire and its connections clean and free from dirt, dust, and moisture. Use a dry cloth to wipe down the wire if necessary.
- **Environmental Protection:** While the PVC jacket offers excellent resistance to various environmental factors, avoid

exposing the wire to extreme temperatures or harsh chemicals unnecessarily.

- **Secure Routing:** Confirm that the wire remains securely fastened along its route and has not shifted into contact with sharp objects or moving parts.

5. Troubleshooting

If you experience issues with your electrical system after installing the power wire, consider the following:

- **No Power to Component:**
  - Check the fuse in the fuse holder near the battery. Replace if blown.
  - Verify all connections are tight at both the power source and the component.
  - Ensure the power source (e.g., battery) is fully charged and functioning correctly.
- **Intermittent Power:**
  - Inspect for loose connections or partially crimped terminals.
  - Check for any damage to the wire jacket that might expose strands and cause intermittent contact.
- **Excessive Heat at Connections:**
  - This indicates high resistance. Immediately disconnect power.
  - Re-check all connections for tightness and proper crimping. Ensure terminals are rated for the wire gauge.
  - Verify the wire gauge is appropriate for the current draw of the component and the length of the run.
- **Noise in Audio System (if applicable):**
  - Ensure the power wire is routed away from signal cables to prevent interference.
  - Verify proper grounding of all components.

6. Technical Specifications

Feature	Specification
Brand	KnuKonceptz
Model	KFX4BK
Gauge	4 AWG
Core Material	Tinned Oxygen Free Copper (OFC)
Strand Count	2058 Strands (36 Gauge)
Dielectric (Jacket)	Ultra Flex PVC
Outer Diameter	11mm
Core Diameter (estimated)	8mm
Maximum Current	150 Amps (at 20 feet)
Maximum Voltage	300 Volts (DC)
Temperature Rating	-40 to 105 °C

Feature	Specification
Indoor/Outdoor Usage	Outdoor
Color	Black
Item Weight	16 ounces (for 5 feet)
UPC	817069010358



Figure 6.1: Key specifications for Kolossus 4 Gauge wire.

7. Warranty Information

KnuKonceptz products are manufactured to high standards. For specific warranty details regarding your Kolossus Flex Kable, please refer to the official KnuKonceptz website or contact their customer support directly. Typically, manufacturer warranties cover defects in materials and workmanship under normal use.

8. Customer Support

If you have any questions, require technical assistance, or need to report an issue with your KnuKonceptz Kolossus Flex Kable, please contact KnuKonceptz customer support through their official channels. You can typically find contact information on their website:

KnuKonceptz Official Website: www.knukonceptz.com

When contacting support, please have your product model (KFX4BK) and any relevant purchase information available.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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