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› [Stock Wire](#) /

› Stock Wire 12/2 UF-B Underground Feeder Cable Instruction Manual

## Stock Wire 14367

# Stock Wire 12/2 UF-B Underground Feeder Cable Instruction Manual

Model: 14367

## INTRODUCTION

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This instruction manual provides essential information for the safe and proper installation, usage, and maintenance of the Stock Wire 12/2 UF-B Underground Feeder Cable. Please read this manual thoroughly before beginning any work to ensure safety and compliance with all applicable electrical codes.

## SAFETY INFORMATION

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**WARNING:** Electrical work can be hazardous. Improper installation or use of this product can result in serious injury, death, or property damage. Always consult with a qualified electrician and adhere to all national and local electrical codes and regulations.

- Always disconnect power at the main service panel before installing or working with electrical wiring.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure all connections are secure and properly insulated.
- Do not exceed the cable's rated voltage (600 Volts) or amperage capacity.
- Protect the cable from physical damage during and after installation.
- Verify that the cable is suitable for the intended application and environment.

## PRODUCT OVERVIEW

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The Stock Wire 12/2 UF-B cable is designed for underground feeder applications, including direct earth burial. It consists of two 12-gauge insulated conductors (one black, one white) and a bare ground wire, all encased in a durable, moisture-resistant polyvinyl chloride (PVC) jacket. This cable is suitable for outdoor lighting, pump circuits, and other applications where direct burial is permitted by code.

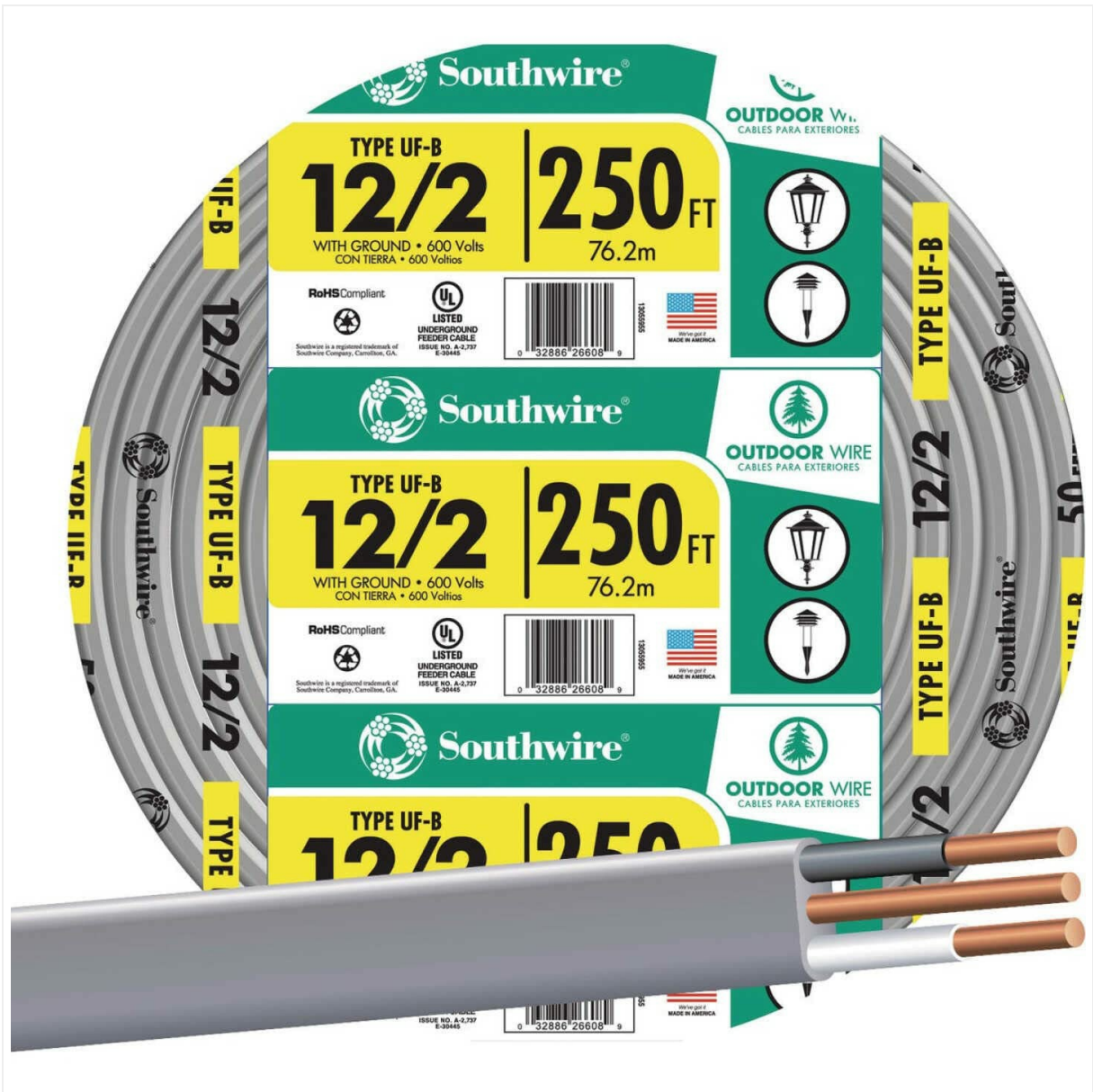


Image 1: Stock Wire 12/2 UF-B cable on a spool, illustrating the gray outer jacket and the internal copper conductors (black, white, and bare ground).

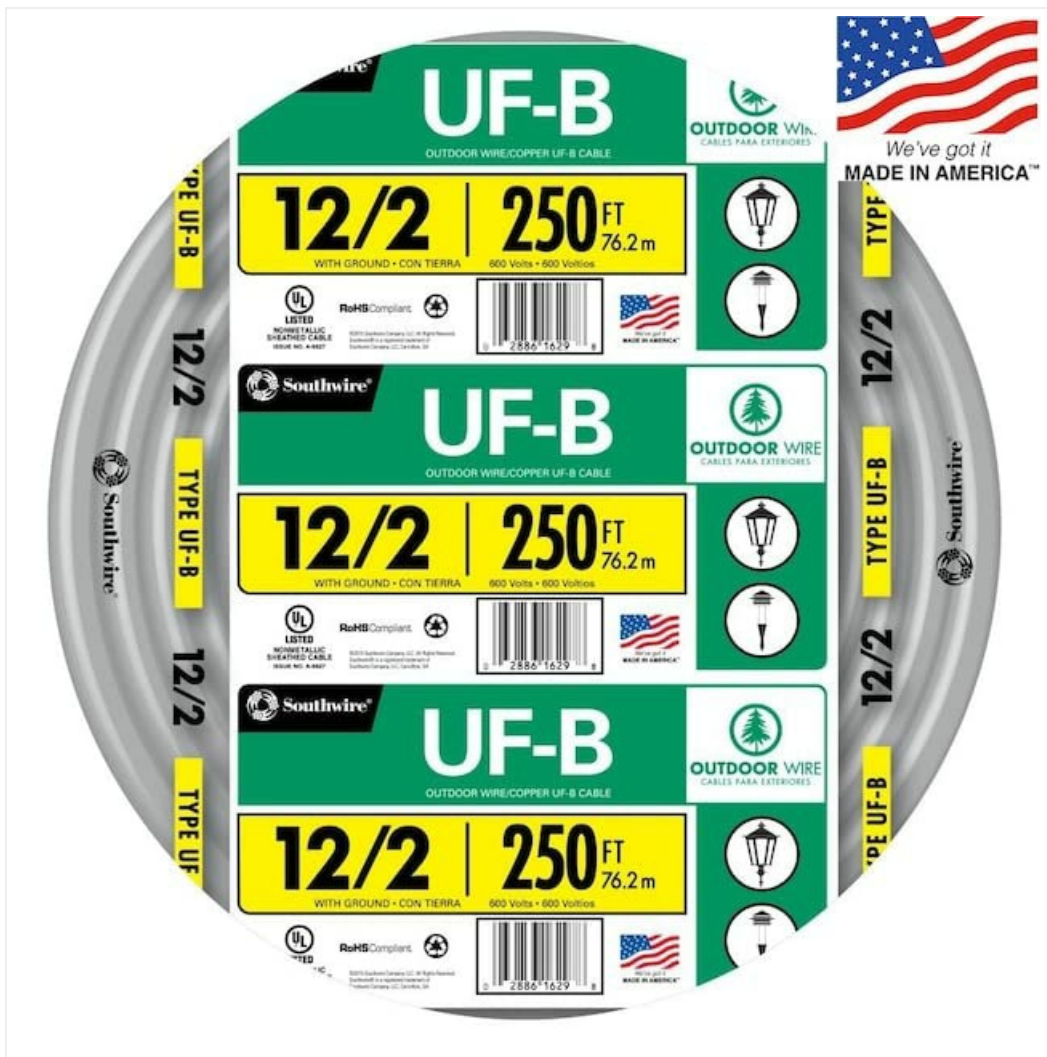


Image 2: A close-up view of the Stock Wire 12/2 UF-B cable, highlighting the internal structure with insulated conductors and the bare ground wire.

## SETUP AND INSTALLATION

Proper installation is critical for the longevity and safety of your electrical system. Always consult local electrical codes for specific requirements in your area.

1. **Planning:** Determine the exact path of the cable run. Mark the path clearly to avoid future damage. Ensure the cable length is sufficient for the entire run, including any necessary slack for connections.
2. **Trenching:** Dig a trench to the depth required by local electrical codes. Typically, direct burial UF-B cable requires a minimum depth of 24 inches, but this can vary. If installed under a driveway or other areas subject to physical damage, deeper burial or conduit protection may be required.
3. **Conduit (Optional but Recommended):** While UF-B cable is rated for direct burial, installing it within conduit (e.g., PVC conduit) offers additional physical protection against rocks, shovels, and other potential damage. If using conduit, ensure it is properly sized and installed according to code.
4. **Laying the Cable:** Carefully lay the UF-B cable in the trench. Avoid sharp bends or kinks that could damage the insulation or conductors. Ensure the cable is not under tension.
5. **Connections:** All connections must be made in approved junction boxes or enclosures. Use appropriate wire connectors (e.g., wire nuts, crimp connectors) suitable for the wire gauge and application. Ensure all connections are tight and properly insulated.
6. **Grounding:** Connect the bare copper ground wire to the grounding system as required by code. Proper grounding is essential for safety.
7. **Backfilling:** Before backfilling, inspect the entire cable run for any damage or improper installation. Cover the

cable with a layer of sand or fine soil to protect it from sharp objects in the backfill. Then, backfill the trench, compacting the soil in layers. Consider placing warning tape (e.g., "CAUTION: BURIED ELECTRIC LINE") above the cable before final backfill.

8. **Testing:** After installation and before energizing, test the circuit for continuity, shorts, and proper grounding using a multimeter or circuit tester.

## USAGE GUIDELINES

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Once installed, the 12/2 UF-B cable functions as a permanent part of your electrical system. Ensure that the connected loads do not exceed the cable's current carrying capacity (ampacity) as determined by the National Electrical Code (NEC) and local regulations for 12-gauge wire. Overloading the circuit can lead to overheating and fire hazards.

## MAINTENANCE

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UF-B cable, when properly installed, requires minimal maintenance. However, periodic inspection of the surrounding area is recommended.

- **Visual Inspection:** Regularly check the ground above the cable path for any signs of disturbance, erosion, or potential damage.
- **Protection:** Be mindful of the cable's location when performing landscaping, digging, or other outdoor activities. Always "Call Before You Dig" (811 in the US) to prevent accidental damage to buried utilities, including your UF-B cable.
- **Connections:** If accessible, periodically inspect connections in junction boxes for corrosion or looseness. Ensure power is disconnected before any inspection.

## TROUBLESHOOTING

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If you experience issues with your electrical circuit connected via the UF-B cable, consider the following common problems:

- **No Power:**
  - Check the circuit breaker or fuse at the main service panel.
  - Verify all connections in junction boxes are secure.
  - Use a multimeter to check for continuity along the cable run (ensure power is off).
- **Frequent Breaker Tripping:**
  - This may indicate an overload. Reduce the number of devices on the circuit or ensure the connected load does not exceed the cable's ampacity.
  - A short circuit could also cause tripping. Inspect for damaged insulation or exposed wires (with power off).
- **Ground Faults:**
  - If a Ground Fault Circuit Interrupter (GFCI) trips, it indicates current leakage to ground. This could be due to moisture ingress or damage to the cable insulation. Professional inspection is required.

For any persistent or complex electrical issues, always contact a qualified electrician.

## SPECIFICATIONS

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Feature	Detail
Brand	Stock Wire
Model Number	14367
Wire Gauge	12 AWG
Conductors	2 insulated conductors (black, white) + 1 bare ground
Cable Type	UF-B (Underground Feeder - Branch Circuit)
Voltage Rating	600 Volts
Jacket Material	Polyvinyl Chloride (PVC)
Color	Gray
Application	Underground feeder, direct earth burial, branch circuits
Compliance	UL Listed, RoHS Compliant
Product Dimensions	13.62 x 7.87 x 17.52 inches (spool dimensions); 22.45 Pounds

## WARRANTY INFORMATION

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For specific warranty details regarding the Stock Wire 12/2 UF-B cable, please refer to the documentation provided at the time of purchase or contact Stock Wire directly. Warranty terms typically cover manufacturing defects under normal use and proper installation.

## SUPPORT

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If you have questions about the Stock Wire 12/2 UF-B cable or require technical assistance, please contact the manufacturer, Stock Wire, or consult a licensed electrician. Always prioritize safety when dealing with electrical systems.