120V DIRECT WIRE JUNCTION BOX FOR LED COMPLETE

INSTALLATION INSTRUCTIONS FOR ALC-BOX-##
120V AC, 60Hz Operation

WARNING: These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes, and/or the current National Electric Code (NEC).

WARNINGS: READ ALL INSTRUCTIONS BEFORE YOU START:

CAUTION - To reduce risk of fire, electric shock, or injury to persons, pay close attention to this manual and stay within its guidelines when using this product. Before use, note that this product requires a 120V AC power source. Ensure that the voltage of your power supply is compatible!

IMPORTANT:

This Direct Wire Junction Box is to be used only with LED Complete (ALC Series) Under Cabinet Lights.
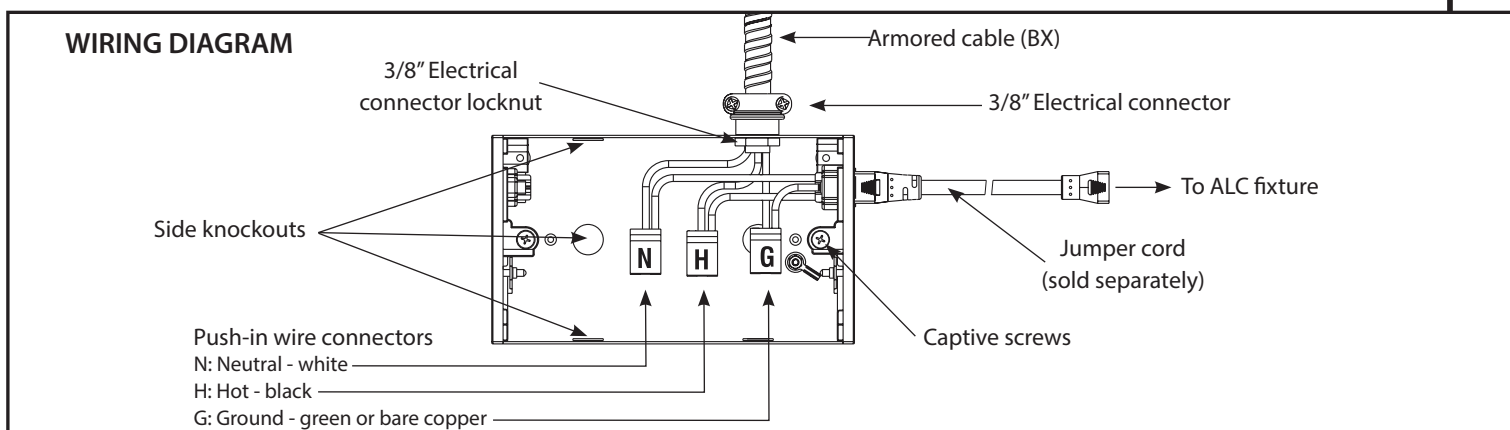It is designed to be wired using flat Non-Metallic Cable (NM) or Armored Cable (BX) supply wire.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions before beginning installation. Safely store these instructions for future reference.
2. Do not use this junction box or jumper cables for the ALC series (part numbers ALC-length-color) to provide power to any products other than the LED Complete fixtures (ALC Series).
3. CAUTION: Do not exceed 5 AMPS maximum load.
4. For use with 120V 60 Hz power supply only.
5. WARNING: DO NOT ELECTRIFY JUNCTION BOX UNTIL THE FOLLOWING CONDITIONS HAVE BEEN MET:
   A. MOUNTING AND WIRING OF THE JUNCTION BOX IS COMPLETE.
   B. THE JUNCTION BOX COVER HAS BEEN REPLACED AND SCREWS SECURELY FASTENED.
   C. ALL FIXTURES CONNECTED TO JUNCTION BOX HAVE BEEN MOUNTED*.
   D. ALL OPEN ELECTRICAL PORTS ON JUNCTION BOX AND CONNECTED FIXTURES HAVE BEEN
       COVERED WITH ELECTRICAL PORT COVERS PROVIDED WITH THE FIXTURE.
6. WARNING: TO PREVENT OVERHEATING, DO NOT INSTALL IN SMALL, ENCLOSED SPACES. TO PREVENT ELECTRICAL SHOCK, DO NOT INSTALL IN WET ENVIRONMENTS. FOR INTERIOR, DRY LOCATION USE ONLY.
7. Qualified electricians, in accordance with local electrical codes, should perform all installations.
8. UL approved dimmers may be used with the LED Complete (ALC Series) dimmable under cabinet fixtures. This product is suitable for use in dimming circuits.
9. Always disconnect electrical power to this product before cleaning or putting on or taking off parts.
10. Do not operate this product if jumper cable has been damaged.
11. Keep jumper cable away from sources of heat and heated surfaces.
12. Do not operate this product in environments where aerosol sprays are being used or where oxygen is being administered.

*MOUNTING FIXTURES: See instructions supplied with the fixture, then follow instructions herein to supply power from the junction box to the fixture. See reverse page and WIRING DIAGRAM below.
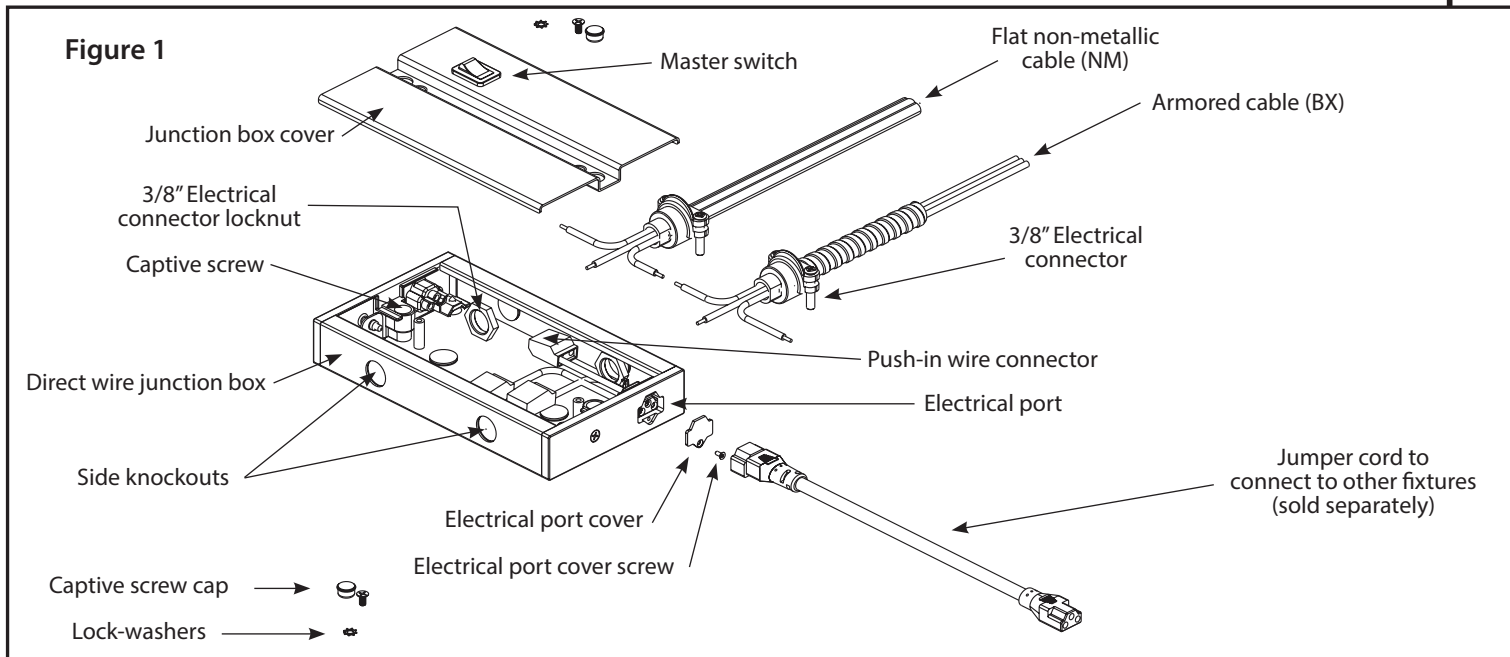
ALTERNATE POWER CONNECTION

Power cords (sold separately) may be used to bring power from a 120V AC, 60 Hz outlet to the first fixture for a "plug-and-cord" installation: ALC-PC6-XX 6 foot power cord for ALC fixtures, Available in BK = Black, WH = White

WIRING DIAGRAM

- Armored cable (BX)
- 3/8" Electrical connector locknut
- 3/8" Electrical connector
- Side knockouts
- To ALC fixture
- Jumper cord (sold separately)
- Captive screws
- Push-in wire connectors
  - N: Neutral - white
  - H: Hot - black
  - G: Ground - green or bare copper

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Figure 1

- Master switch
- Flat non-metallic cable (NM)
- Armored cable (BX)
- Junction box cover
- 3/8" Electrical connector locknut
- Captive screw
- 3/8" Electrical connector
- Direct wire junction box
- Push-in wire connector
- Electrical port
- Side knockouts
- Electrical port cover
- Electrical port cover screw
- Jumper cord to connect to other fixtures (sold separately)
- Captive screw cap
- Lock-washers

DIRECT WIRE JUNCTION BOX INSTALLATION (See Figure 1, above)

1. Turn off power for appropriate electrical circuit at electrical service panel.
2. Remove junction box cover screws and remove cover. Save screws and lock-washers.
3. Prepare flat, non-metallic cable (NM)(2C+Ground) or armored cable (BX) by stripping conductor ends approximately 3/8".
4. For installation using 3/8" electrical connector to junction box (as shown), determine mounting orientation and remove one side knockout on desired side of junction box. Attach 3/8" electrical connector to junction box then affix 3/8" electrical connector to electrical supply (BX or NM). NM cable outer jacket must protrude through 3/8" electrical connector to adequately protect internal conductors.
5. Tighten locknut and clamping screw(s) on electrical connector, fitting securely.
6. Put stripped ends of wires into the push-in wire connectors (see Figure 1). Supply wires are typically color coded: Hot-black, Neutral-white, Ground-green or bare copper (see Wiring Diagram on previous page). Note that black supply wire goes into the connector with black wire, white with white, and green with green.
7. Push excess electrical supply wire back into wall and locate the junction box on mounting surface. Affix the junction box to the underside of the cabinet with captive screws provided. Be careful not to drive screws all the way through the cabinet bottom; Use shorter screws if necessary.
8. Replace and secure junction box cover with supplied screws. Make sure lock-washers are located beneath screw heads to properly ground cover.
9. Follow installation instructions provided with undercabinet light fixture. Mount fixture, and insert jumper wire (sold separately) or direct end-to-end connector (supplied with fixture) into appropriate electrical port of direct wire junction box.
10. Make sure that all fixtures connected to junction box are properly installed and that all open electrical ports on the module and fixtures are safely covered with electrical port covers.
11. Restore circuit power at electrical service panel. Turn on master switch on junction box and turn on switches for each individual fixture. Master switch can be used to control all fixtures simultaneously or fixtures can be operated individually.

REMOTE CONNECTING JUNCTION BOX TO FIXTURE USING JUMPER CORD (SOLD SEPARATELY)

Do not attempt to modify the junction box or fixture in any way to make power connection. Jumper cords can connect to either or both electrical ports, depending upon layout needs. Jumper cords may be interconnected to create longer lengths. Do not connect more than five jumper cords between fixtures. Use only jumper cords listed below to make connections between junction box and fixture or between fixtures. Failure to follow these instructions will void warranty.

ALC-EX6-BK	6" jumper cord for ALC fixtures; Black
ALC-EX6-WH	6" jumper cord for ALC fixtures; White
ALC-EX12-BK	12" jumper cord for ALC fixtures; Black
ALC-EX12-WH	12" jumper cord for AL fixtures; White

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