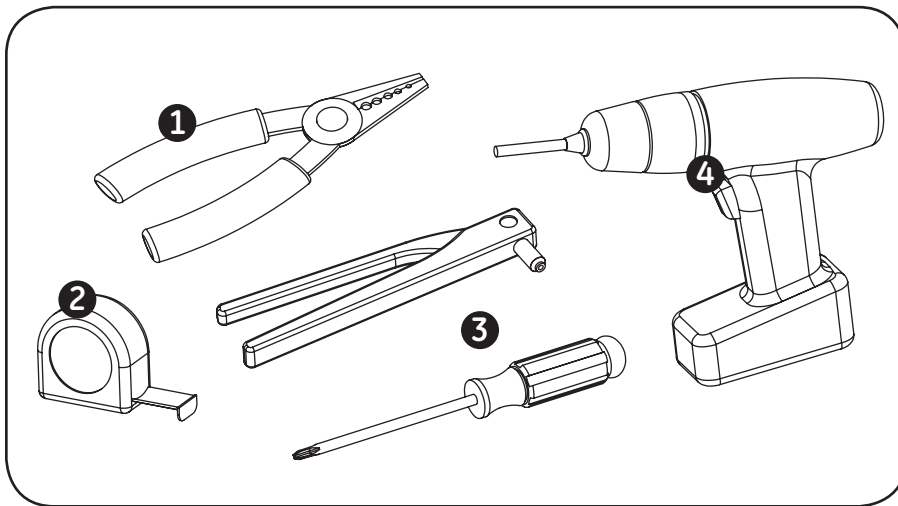


Tetra[®] Power White

LED Lighting System

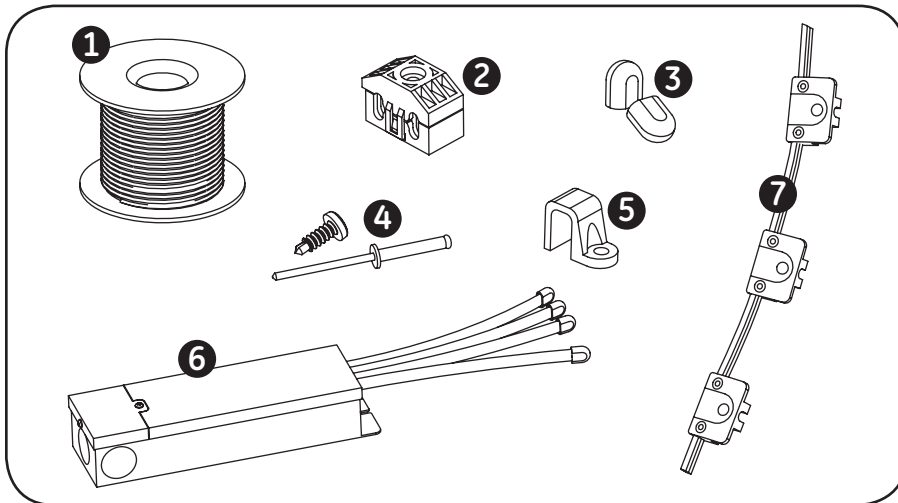
(GEWHPHS2-65K)

Step 1: Tools and Components Required



Tools required:

- 1 Wire stripper/cutter
- 2 Tape measure
- 3 Rivet gun or screwdriver
- 4 Cordless drill



Components required:

- 1 UL approved 14 AWG (2.08mm²) supply wire (GECLSW1)
- 2 UL approved splice connectors (GECLSC2)
- 3 End caps (GECLEC1)
- 4 #6 (M3) self-drilling pan headed screws or 1/8-inch (3 mm) rivets
- 5 Wire clips (GECLWM1)
- 6 Power Supply (GECLPSPH)
- 7 Tetra[®] Power White Modules (GEWHPHS2-65K)



Installation Guide

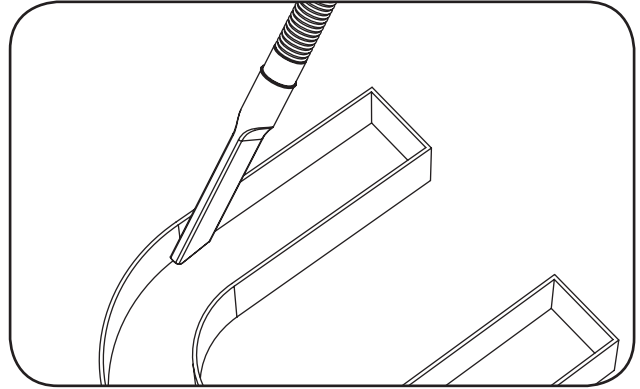
Step 2: Layout Modules

Carefully remove all neon tubing, tube supports and transformers. Make sure the removal of neon equipment does not compromise the integrity of the sign body (i.e. water intrusion). Fill in all holes 0.5-inch (13mm) or smaller with the appropriate amount of rated caulk or silicone. For holes greater than 0.5-inch (13mm), use an aluminum or zinc coated steel patch with rivets and caulk to insure that the integrity of the letter is not compromised.

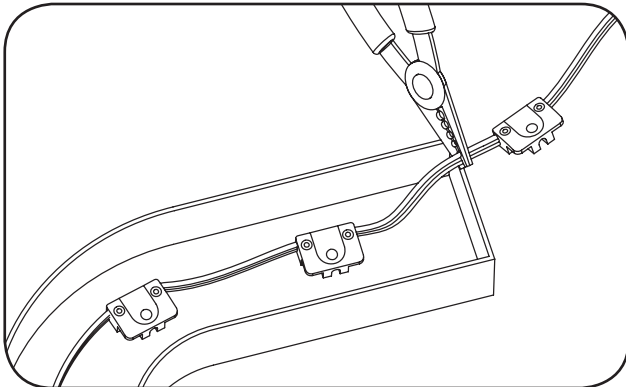
NOTE: We recommend the use of light enhancing paint or light enhancing film on the inside of the channel letter to increase face intensity up to 30%.

NOTE: For CUL Canadian coverage, a disconnect switch is required for the Canadian electrical code. Refer to the power supply installation instructions for disconnect switch details.

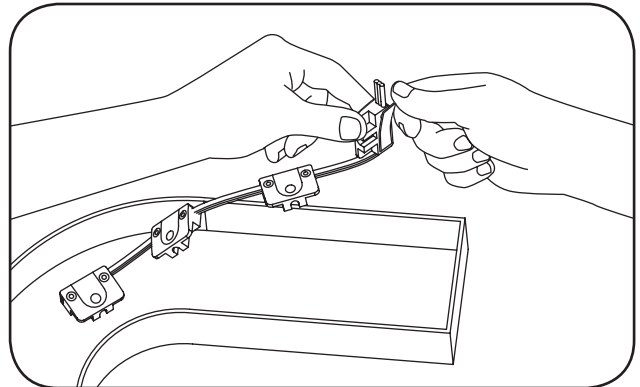
NOTE: Follow all federal and local regulations when disposing of neon tubing and transformers.



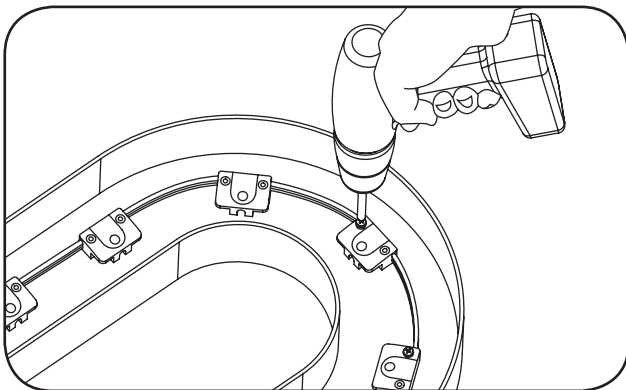
1 Clean & remove all debris from the inside of the channel letter before you begin.



2 Measure and cut Tetra Power White to the appropriate length for each letter.

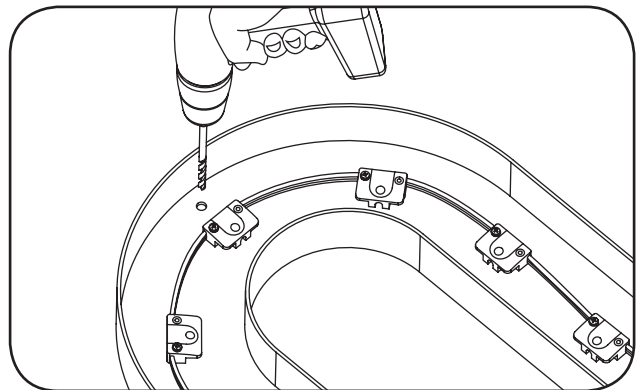


3 Remove tape backing and stick LED modules into place. Continue until you have reached the end of the strip.



4 Rivets or screws **MUST BE** used to secure the LED strip within the channel letter. Use #6 (M3) self-drilling pan headed screws or 1/8-inch (3mm) rivets.

Wire clips (GECLWM1) can also be used for additional reinforcement.

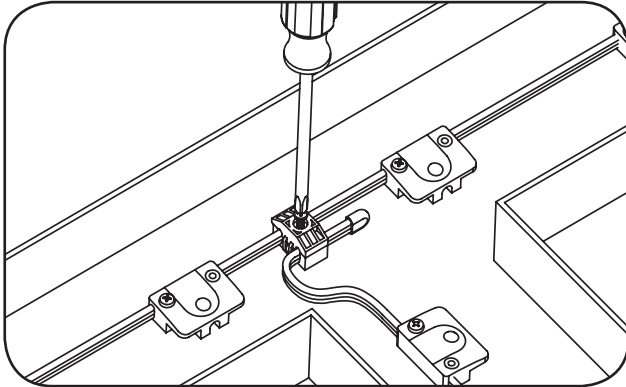


5 Drill a hole near the center of the Tetra Power White Strip for the power supply wires to pass thru. Grommet the hole.

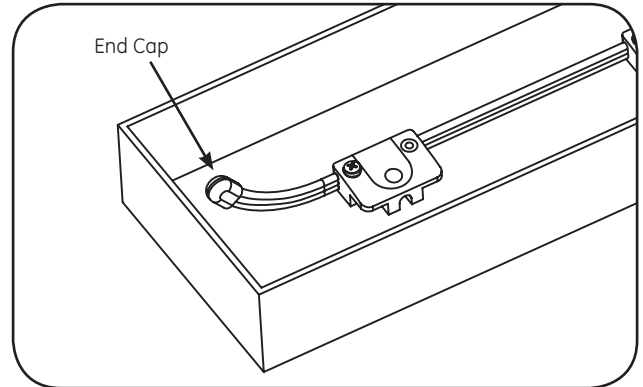
Step 3: Electrical Connections

Measure the amount of supply wire needed to reach the power supply from the farthest letter.

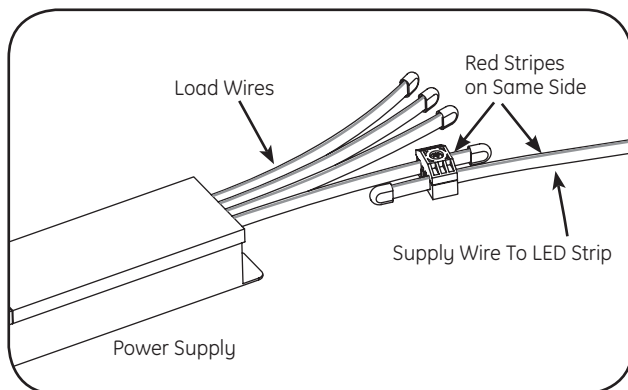
NOTE: Recommended distance from power supply to Tetra Power White Strip is up to 10 ft. (3.05m).



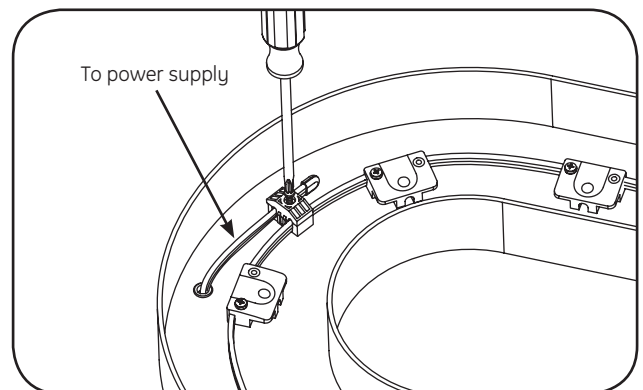
- 1 Connect Tetra Power White Strips using splice connectors. Verify connections are red to red and white to white.



- 2 All unused wires **MUST BE** capped with GECLEC1 end caps or apply electronics grade silicone for additional weather protection.



- 3 Run a supply wire (GECLSW1) from the Power Supply to each channel letter.



- 4 Place the supply wire in one side of the splice connector and the Power White Strip on the other side, making sure both wires have the same orientation. (The red stripe of Tetra Power White Strip wire to red stripe of Tetra Supply Wire and the white wire of the Tetra Power White Strip to the white wire of the Tetra Supply Wire.)

NOTE: All electrical connections should be made within the letter.

Installation Guide

Step 4: Troubleshooting

Symptom	Condition	Solution
All LEDs are blinking	Underload (Too few feet of strip).	Ensure at least a total of 8 Tetra Power White modules are installed on the power supply.
	Overload (Too many feet of strip).	Ensure Tetra Power White Strip footage does not exceed the maximum length as stated in the Power Supply Installation Instructions.
LEDs are dim	Too much supply wire	Supply wire is less than 10 ft. (3.05m).
Some of the letters are not illuminated	Verify wire attachments to the load banks are correct.	Make sure the connections are red wire to red wire and white to white.
	Check splice connection(s) in the letter and to the supply wire attached to the power supply.	Verify connections are red-to-red and white-to-white.
All letters are off	Check breaker.	Reset or turn on breaker.
	Short on bank or current is above 5 amps.	Shut down power supply and correct short or reduce Tetra Power White Strip footage on output bank; cycle primary power to reset.
Shadows	Shadows appearing around the power supply.	Verify Tetra Power White Strip is not installed flush to the power supply. Move Tetra Power White Strip 0.5-inch (13mm) away from power supply.

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.
- Shut off power at fuse box or circuit breaker before installation.



RISK OF FIRE:

- Use only Tetra Supply Wire to make connection from Tetra Power Supply to Tetra Power White LED Strip.
- Follow all NEC and local codes.
- Use only approved wire for input connection. Minimum size 1.02mm

Conforms to the following standards:



6180 Halle Drive • Valley View, Ohio 44125-4635 • USA
 P: 216.606.6555 • F: 216.606.6599 • www.led.com • info@led.com

For customer service & technical support, contact:
 1-888-MY-GE-LED (1.888.694.3533)

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