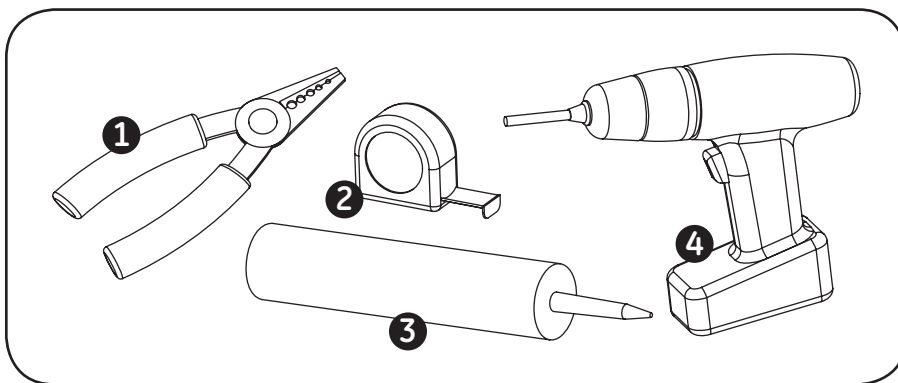


# Tetra<sup>®</sup> Contour LS

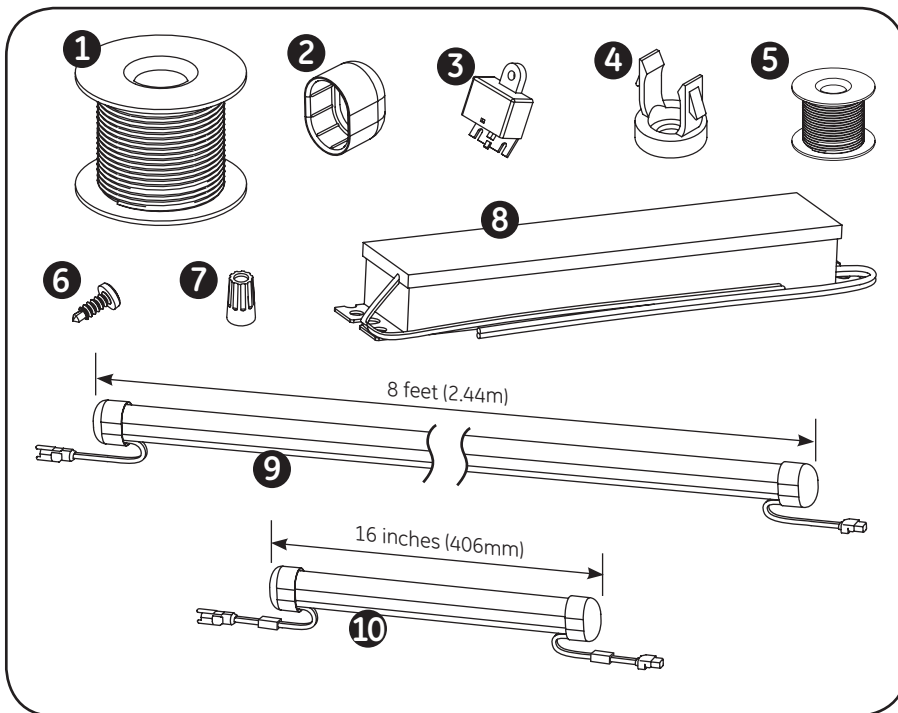
LED Lighting System

## Tools and Components



### Tools required:

- 1 Wire stripper/cutter
- 2 Tape measure
- 3 Electrical grade silicone
- 4 Cordless drill



### Components required:

- 1 UL approved 18 AWG (0.82mm<sup>2</sup>) supply wire
- 2 End Caps
- 3 Weather Boxes
- 4 Light Guide Mounting Clips
- 5 22 AWG (0.33mm<sup>2</sup>) tie-wire
- 6 #6, #8 or #10 (M2, M3 or M4) self drilling pan headed screws
- 7 UL approved twist-on wire connectors fitting both 18 and 20 AWG wire (0.82mm<sup>2</sup>, 0.52mm<sup>2</sup>)
- 8 Tetra<sup>®</sup> 24 Volt Power Supply
- 9 Tetra<sup>®</sup> Contour LS
- 10 **Optional:** Tetra<sup>®</sup> Contour LS extension



## Planning

For planning the layout, measure the perimeter of the building and divide by 8 ft. (2.44m) to determine the required quantity of Tetra Contour LS systems. See table below for guidelines about cutting resolution.

For seamless designs, accessories are available for straight runs and 90 degree corners.

**NOTE:** Do not use more than one suffix code for each respective application, as mixing suffix codes may result in appearance variation. Suffix code can be found on the packaging label.

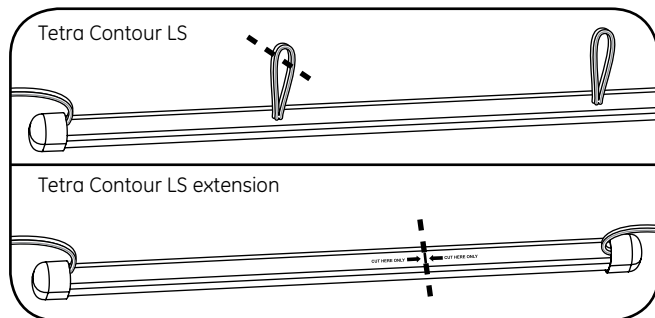
**Cutting Resolution Table**

### Tetra Contour LS

SKU	Color	Cutting Resolution
GERDXNLA2-RD	Red	8 inches (203mm)
GEGLXNLA2-GL	Green	8 inches (203mm)
GEBLXNLA2-BL	Blue	8 inches (203mm)
GEWHXNLA2-WH	White	8 inches (203mm)

### Tetra Contour LS extension

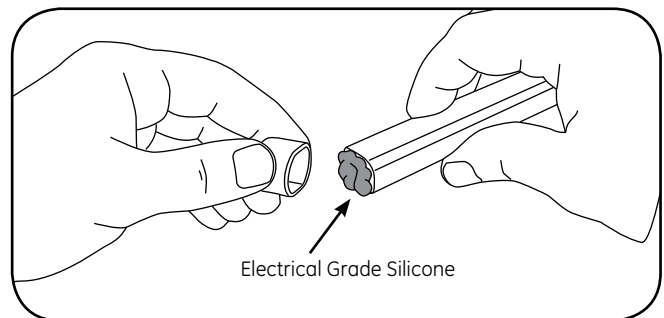
SKU	Color	Cutting Resolution
GERDXNAA2-RD	Red	2.67 inches (68mm)
GEGLXNAA2-GL	Green	2.00 inches (51mm)
GEBLXNAA2-BL	Blue	2.00 inches (51mm)
GEWHXNAA2-WH	White	2.00 inches (51mm)



- 1 If it is necessary to cut the Tetra Contour LS for a better fit, refer to the Cutting Resolution table above.

**NOTE:** Tetra Contour LS can only be cut on wires.

**NOTE:** Tetra Contour LS extension sections can only be cut on "Cut Here" markings.



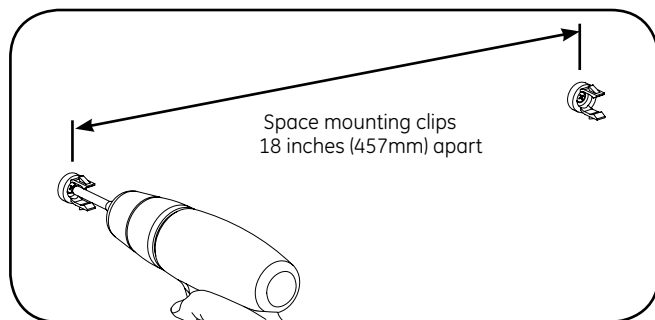
- 2 If Tetra Contour LS sections are cut, apply electrical grade silicone to exposed wires and attach end cap.

### CAUTION

**Risk of damage.** Must use electrical grade silicone.

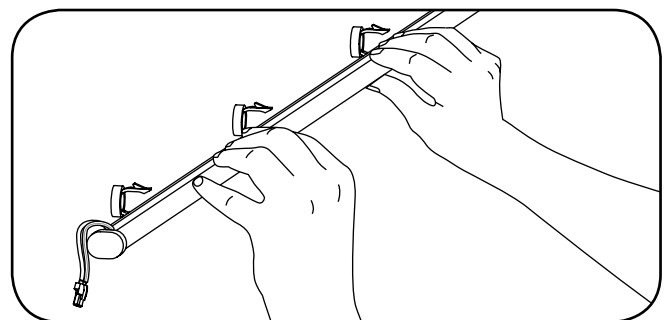
## Attaching Contour Sections

**NOTE:** Tetra Contour LS is intended for straight runs.



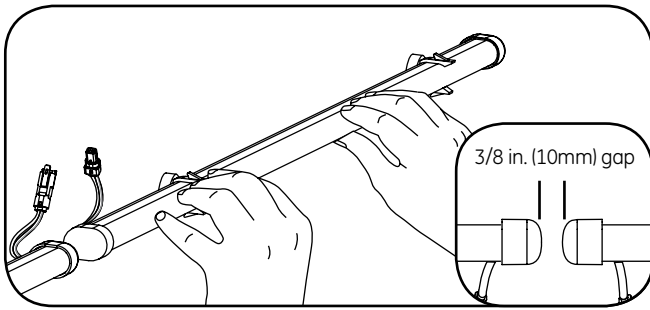
- 1 Install one mounting clip at each end and then a minimum of one mounting clip every 18 inches (457mm).

**NOTE:** Standard neon mounting hardware can also be used.

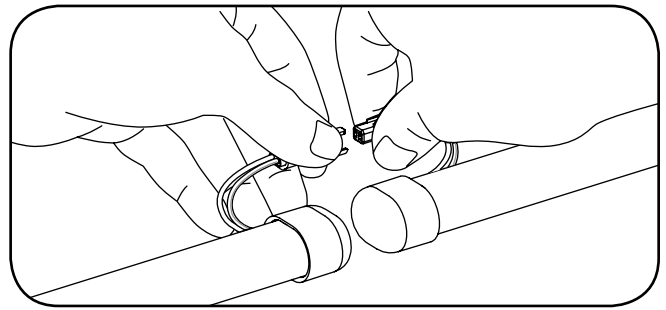


- 2 Starting from one end, attach the Tetra Contour LS to the mounting clips. Secure light guide by twisting tie-wire around the mounting clip and light guide.

**NOTE:** Wires can be concealed by tucking wires between mounting clips and Tetra Contour LS system.



**3** Continue attaching all the sections to the remaining mounting clips, leaving a 3/8 inch (10mm) gap between sections to allow for expansion or contraction.



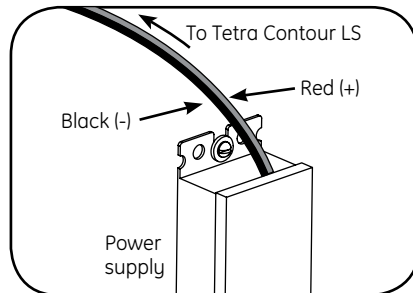
**4** Plug together all adjacent Tetra Contour LS sections and tuck wires behind Tetra Contour LS sections or behind accessory pieces.

## Electrical Connections

Must be used with Tetra 24 Volt Power Supplies. Refer to the **Power Supply Installation Instructions** for more information on the power supply.

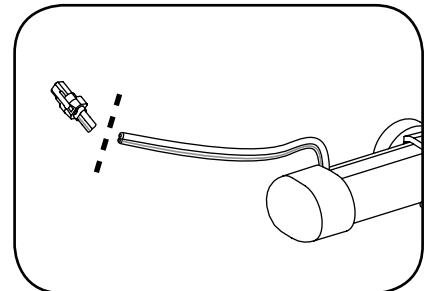
### **⚠ WARNING**

**Risk of electrical shock.** Turn power OFF before inspection, installation or removal.

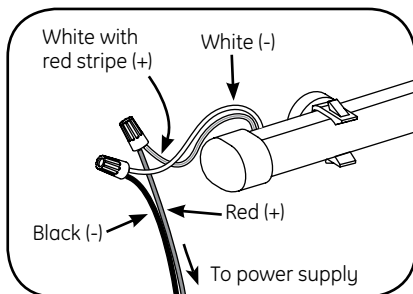


**1** Run a wire from the power supply to a section of Tetra Contour LS.

**NOTE:** Power supply connection must be contained in an acceptable UL/NEMA enclosure.

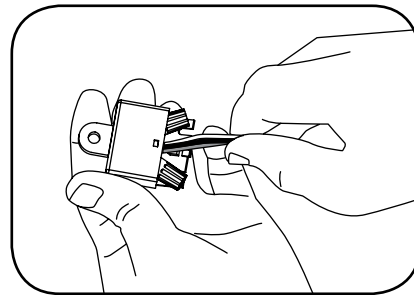


**2** Cut off the quick connector on the Tetra Contour LS that you are connecting to the power supply.



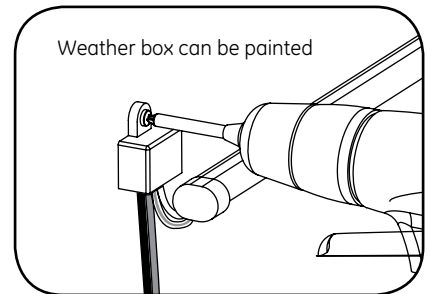
**3** Using twist-on wire connectors, connect the white wire with red stripe (+) from the LED strip to the red wire (+) of the power supply. Connect the white wire (-) from the LED strip to the black wire (-) of the power supply.

**NOTE:** Grounding and bonding must be done in accordance with National Electrical Code (Article 600). See power supply instructions.



**4** Insert wire connectors into weather box. Fill with electrical grade silicone and close box.

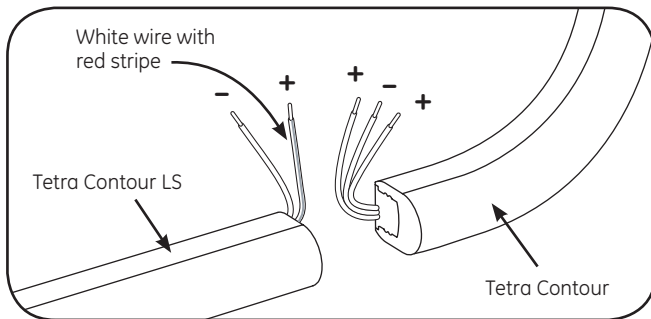
**NOTE:** Examples of electrical grade silicone include GE RTV 6700 Series Sealant, GE White Blanc RTV 162, Dow Corning 3145, Dow Corning RTV 748



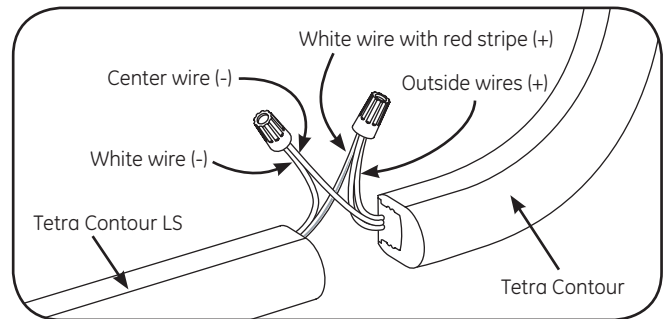
**5** Secure the weather box using a #6 or #8 (M2 or M3) screw.

**NOTE:** When using twist-on connectors, weather box is required for all outdoor electrical connections.

## Optional—Attaching Tetra Contour LS to Tetra Contour



- 1 When connecting Tetra Contour LS to Tetra Contour, separate wires and identify conductors as positive (+) and negative (-). Strip ends back 0.5 in. (12mm).



- 2 Splice the white wire with red stripe (+) of Tetra Contour LS to the two outside wires (+) of Tetra Contour and splice the white wire (-) of Tetra Contour LS to the center wire (-) of Tetra Contour.

**NOTE:** Weather box is required for all outdoor electrical connections.

## Troubleshooting

Symptom	Solution
All sections are OFF	<ul style="list-style-type: none"> <li>• Check AC input connection and/or check circuit breaker.</li> <li>• Check wire connection(s) at the Tetra Contour LS section and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s).</li> <li>• Check that connections are the white wire with red stripe (+) of the LED strip to the red wire (+) of the power supply and the white wire (-) of the LED strip to the black wire (-) of the power supply.</li> </ul>
Some LEDs appear dim	<ul style="list-style-type: none"> <li>• Ensure the overall length of the Tetra Contour LS does not exceed the maximum load.</li> <li>• Ensure the length of supply wire from the power supply is equal to or below the recommended remote mounting distance.</li> <li>• Make sure that all LED light engines have the same suffix code (suffix code is located on the box label).</li> </ul>
Some of the sections are not illuminated	<ul style="list-style-type: none"> <li>• Check wire connection(s) at the Tetra Contour LS section and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s).</li> <li>• Check that connections are the white wire with red stripe (+) of the LED strip to the red wire (+) of the power supply and the white wire (-) of the LED strip to the black wire (-) of the power supply.</li> </ul>

### ⚠ WARNING!

#### RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.



#### RISK OF FIRE:

- Follow all NEC and local codes.
- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82 mm<sup>2</sup>)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the Canadian standard ICES-005. Ce DEFR de la classe [A] est conforme à la NMB-005 du Canada.

Conforms to the following standards:



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1-888-69-43-533

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