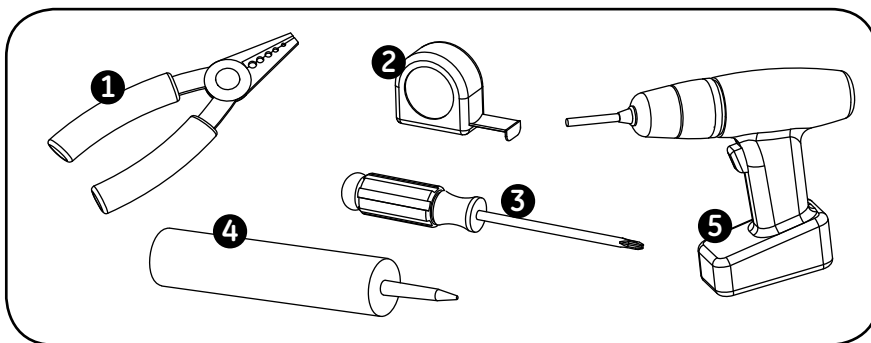


Tetra[®] Contour

LED Lighting System

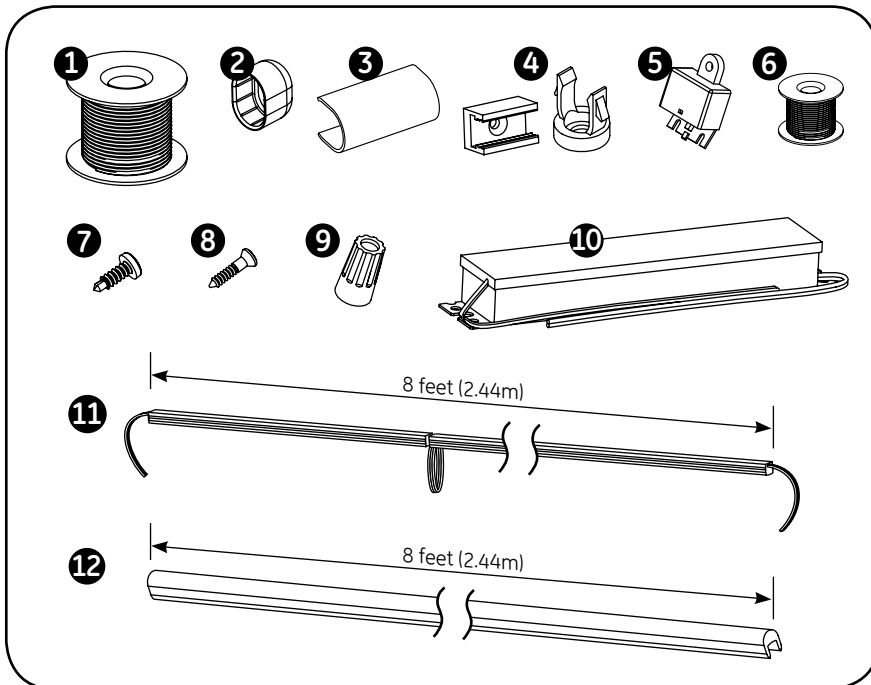
(GERDXNLE1, GERCXNLE1, GEYAXNLE1, GEGLXNLE1, GEBLXNLE1, GEWHXNLE1, GEWWXNLE1)

Tools and Components



Tools required:

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



Components required:

- 1 UL approved 18 AWG (0.82mm²) supply wire
- 2 End caps
- 3 Light guide connectors
- 4 Mounting clips
- 5 Weather box
- 6 22 AWG (0.33mm²) tie-wire
- 7 #8 & #10 (M3 or M4) self drilling pan head screws
- 8 #6 (M2) screws
- 9 UL approved 22-14 AWG (0.33-2.08mm²) twist-on wire connectors
- 10 Tetra[®] 24 Volt Power Supply
- 11 Tetra Contour light engine
- 12 Tetra Contour light guide



imagination at work

* NOTE: xx = color code

Attaching Light Engines

Plan the layout by measuring the design layout and dividing by 8 ft. (2.44m) to determine the required quantity of Tetra Contour. Refer to the Cutting Resolution Chart at right when cutting any Tetra Contour section.

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

Light Engine Color	Cutting Resolution
Red	2.67 in. (68mm)
Red-Orange	2.67 in. (68mm)
Amber	2.67 in. (68mm)
Green	2.00 in. (51mm)
Blue	2.00 in. (51mm)
White	2.00 in. (51mm)
Warm White	2.00 in. (51mm)

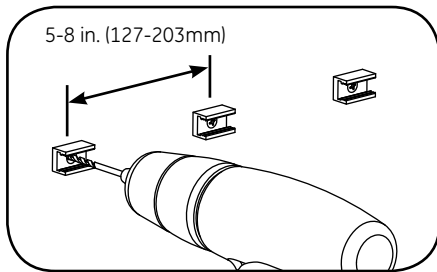
METHOD A - without light guides

CAUTION

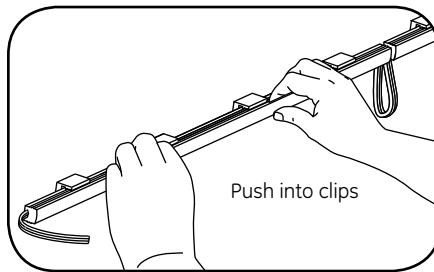
Risk of damage. Light engine by itself is intended for use in dry indoor application only.

NOTE: Installation methods shown are for straight runs. For custom shapes, install mounting clips at regular intervals throughout the shape to provide adequate support for the light engine.

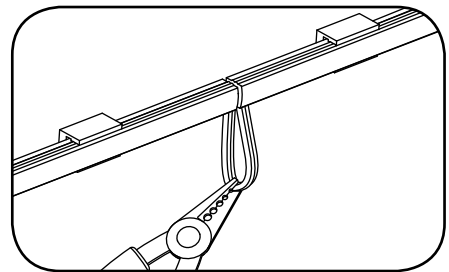
NOTE: DO NOT bend the light engine to an inside radius that is tighter than 5/8 in. (16mm). The light engine is not intended for excessive or repetitive bending.



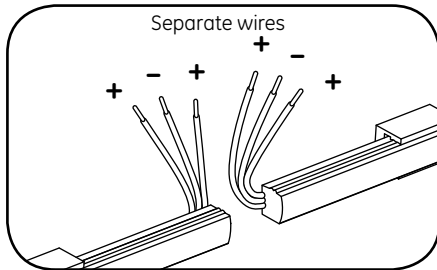
1 Install a mounting clip, using #6 (M2) counter sink screws, every 5-8 inches (127-203mm) on center until the end of the run is reached.



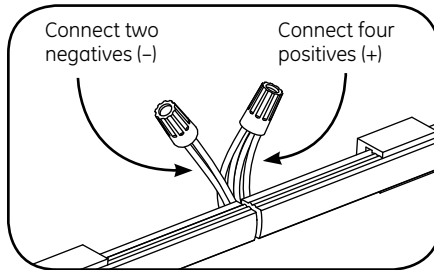
2 Push each 16 in. (406mm) light engine segment into the clips. Fold loose wires behind light engines.



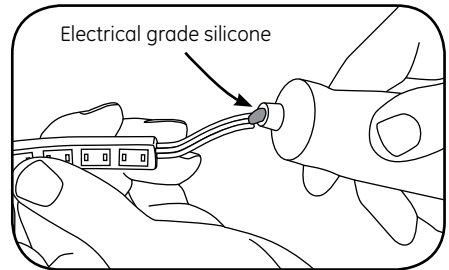
3 If required, cut wire loops between sections or through light engine in the appropriate area (refer to the Cutting Resolution table above).



4 Separate wires and identify outer conductors as positive (+) and middle conductors as negative (-). Strip ends back 0.5 in. (13mm).



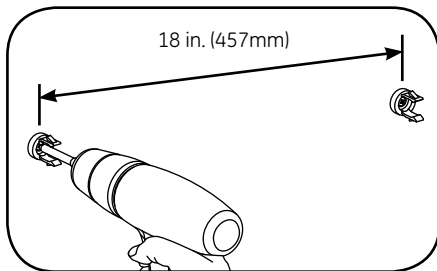
5 Use twist-on wire connectors to join cut wires together. Fold wires behind light engines.



6 CAUTION: Anytime light engine or supply wire is cut and wire is exposed, electrical grade silicone must be applied (see list on the next page for recommendations).

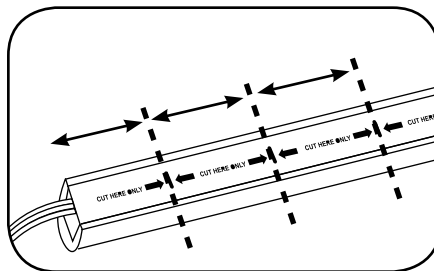
METHOD B - with light guides

NOTE: Installation methods shown are for straight runs. For custom shapes, refer to the **Light Guide Forming Instructions**.

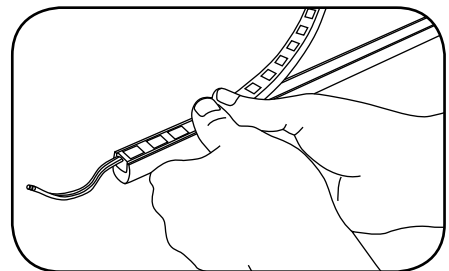


1 Install a minimum of one clip per 18 in. (457mm) using #10 (M4) screws.

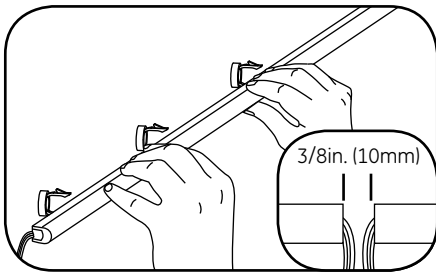
NOTE: Standard neon hardware can also be used.



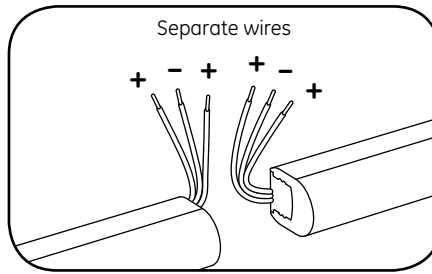
2 If required, cut wire loops between sections or through light engine (refer to the Cutting Resolution table above).



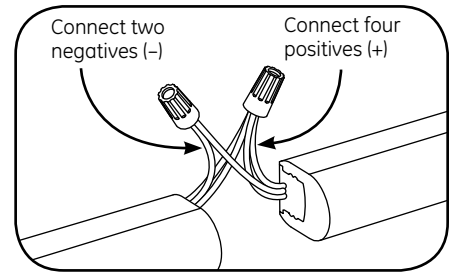
3 Push the light engine segments down into the light guide.



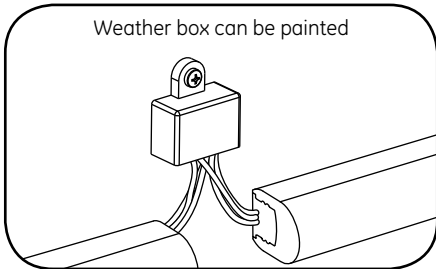
- 4** Attach Tetra Contour to the mounting clips, leaving a 3/8 in. (10mm) gap between sections to allow for expansion or contraction. Secure light guide by twisting tie-wire around the mounting clip and light guide.



- 5** Separate wires and identify outer conductors as positive (+) and middle conductors as negative (-). Strip ends back 0.5 in. (13mm).

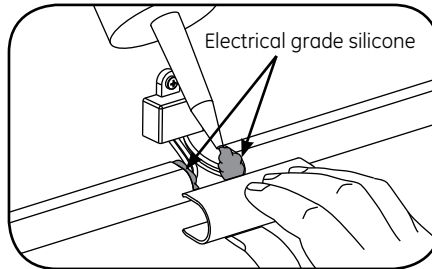


- 6** Use twist-on wire connectors to join wires together. Fold wires behind light engines.

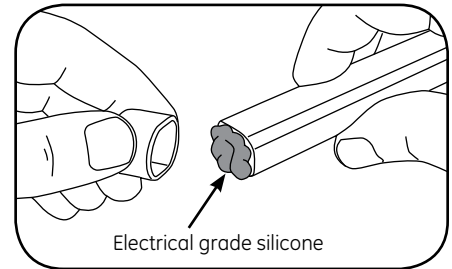


- 7** Insert wire connectors into weather box. Fill with electrical grade silicone and close box. Weather box can be mounted using #8 (M3) screws.

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



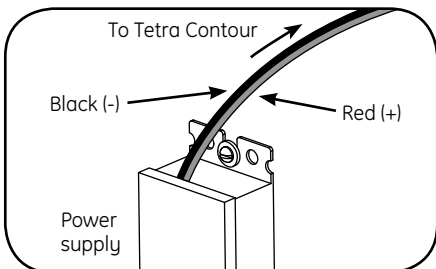
- 8** At each gap between Tetra Contour sections, snap on a GEExLGC15 light guide connector.



- 9** At any open end, apply electrical grade silicone and press fit a GEExLGC15 light guide end cap to the Tetra Contour.

Example electrical grade silicones include: GE RTV 6700 Series Silicone Rubber Adhesive Sealant, GE White Blanc RTV 162 Silicone Rubber Adhesive Sealant-Electrical Grade, Dow Corning 3140 - Non-Corrosive Flowable (clear), Dow Corning 3145 - Non-Corrosive Nonflowable (clear or gray) & Dow Corning RTV 748 Non-Corrosive Sealant-White

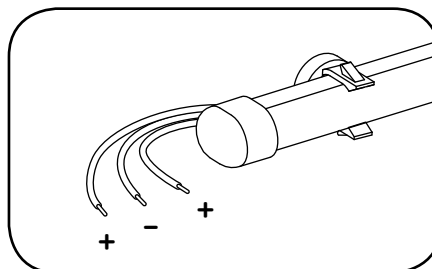
Connect Power Supply



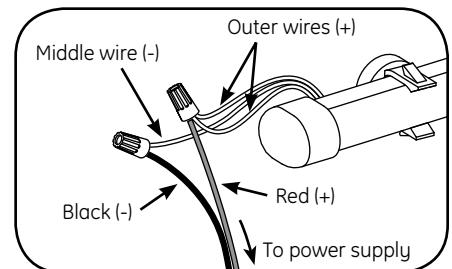
- 1** Run a wire from the power supply to a section of Tetra Contour.

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

NOTE: Power supply loading is described in the power supply installation instructions.



- 2** Separate wires and identify outer conductors as positive (+) and middle conductor as negative (-). Strip ends back 0.5 in. (13mm).



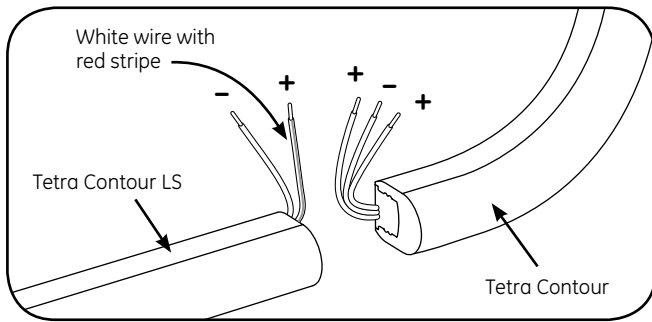
- 3** Connect the two outer wires (+) from the LED strip to the red wire (+) of the power supply. Connect the middle wire (-) from the LED strip to the black wire (-) of the power supply.

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

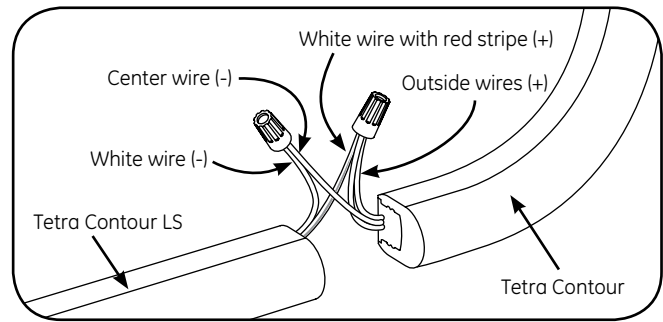
⚠ WARNING

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

Optional—Attaching Tetra Contour to Tetra Contour LS



1 Tetra Contour LS can be connected to formable Tetra Contour for custom shapes. Separate wires and identify conductors as positive (+) and negative (-). Strip ends back 0.5 in. (13mm).



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

Troubleshooting

Symptom	Condition	Solution
All LEDs are OFF	No AC input.	Attach AC input and/or check circuit breaker.
	Incorrect wire attachment.	Check wire connection(s) at the Tetra Contour LED light engine and power supply for improper connections or short circuits. Make sure you have positive to positive and negative to negative wire connections.
Some LEDs appear dim	Overload (maximum load exceeded).	Ensure the overall length of Tetra Contour LED light engine does not exceed the maximum load as detailed in the Tetra Power Supply Installation Instructions .
	Maximum recommended supply wire length exceeded.	Reduce the length of supply wire equal to or below the recommended maximum.
	Mixed Suffix Codes of LED light engine within an application.	Make sure that all LED light engines have the same Suffix Code (Suffix Code is located on each packaging label).
Some of the sections are not illuminated	Incorrect wire attachment.	Check the wire connections at the Tetra Contour LED light engine for improper connections. Make sure you have positive to positive and negative to negative wire connections. Check for improper cutting resolution locations (see Method B step 2).
Light/dark banding along a section	LED light engine stretched during installation.	Remove LED light engine and properly install.

⚠ 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:

- Follow all NEC and local codes.
- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82mm²)

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:



GE Lighting Solutions • 1-888-MY-GE-LED • www.gelightingsolutions.com
1-888-69-43-533

GE Lighting Solutions is a subsidiary of the General Electric Company. Tetra is a trademark of GE Lighting Solutions. The GE brand and logo are trademarks of the General Electric Company. © 2011 GE Lighting Solutions. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.