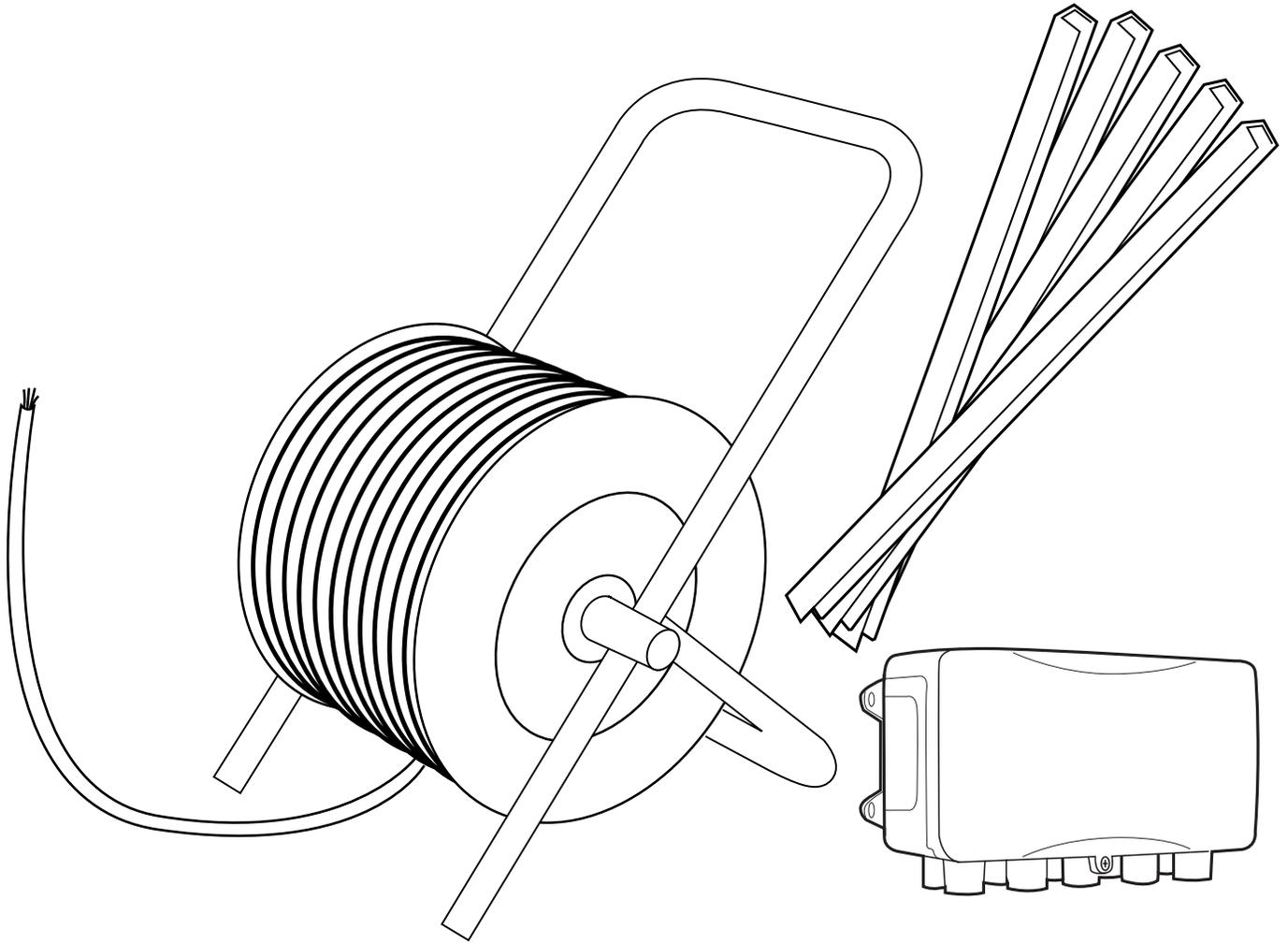


PALTM

LIGHTING

PERIMETER STRIP KITS

Installation and Operations Manual



64-PAL-NFWB8-RGB-STE-085FT	85FT (1020 inches) Evenglow Flex Extra Long Domed Side View Multi Color Strip Lighting Kit
64-PAL-NFWB8-RGB-STE-100FT	100FT (1200 inches) Evenglow Flex Extra Long Domed Side View Multi Color Strip Lighting Kit
64-PAL-NFWB8-RGB-STE-115FT	115FT (1380 inches) Evenglow Flex Extra Long Domed Side View Multi Color Strip Lighting Kit
64-PAL-NFLT8-RGB-STE-085FT	85FT (1020 inches) Evenglow Flex Extra Long Large Top View Multi Color Strip Lighting Kit
64-PAL-NFLT8-RGB-STE-100FT	100FT (1200 inches) Evenglow Flex Extra Long Large Top View Multi Color Strip Lighting Kit
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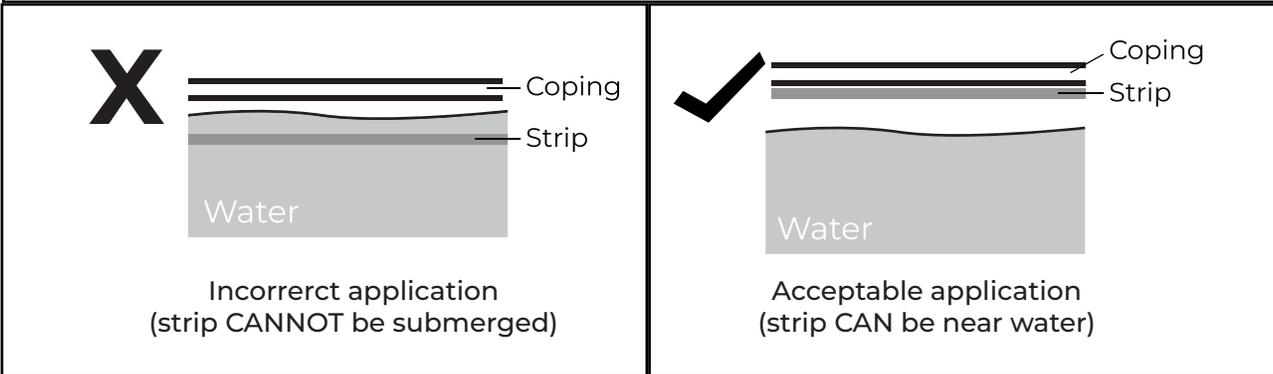
PAL Lighting LLC.
4830 Timber Creek Dr. Houston, TX 77017
North America: +1 (713) 946-4343
www.pallighting.com

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MUST READ FOR ALL LED STRIP INSTALLATION

This LED strip is NOT designed to be submerged in water.*
DO NOT install LED strip if strip will be submerged at ANYTIME for a period of time longer than 15 sustained minutes. LED Strip has an IP68 rating which can be installed poolside / pool adjacent and can withstand rain / normal outdoor elements. At any time if the LED strip is cut, punctured, or pinched the factory-maintained IP rating will be compromised.



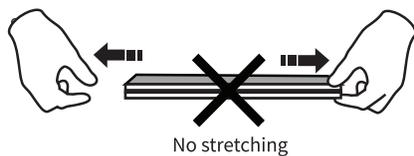
*PAL Lighting provides a wide range of LED lighting solutions including underwater rated LED strip lights - for inquiries on additional lighting solutions please reach out to design@pallighting.com.

1. SAFETY INSTRUCTIONS



Improper installation carries the potential for electrical hazards, presenting a risk of severe or even fatal injuries to pool users, installers, or bystanders due to the threat of electrical shock, and may also result in property damage. Installer assumes all risks and responsibilities for ensuring product and environment is safe before, during, and after installation.

- Installation must be performed by qualified pool builders or licensed electricians.
- Always follow local electrical codes and pool safety regulations.
- Disconnect power before installation.
- Minimum 2 installers required for handling and mounting the strip.
- We recommend installing the LED strip in an un-filled pool. IF this is not a NEW BUILD – FOLLOW ALL PRE-CAUTIONS WHEN EMPTYING A POOL. Never attempt to drain a pool without an experienced pool professional.



2. UPON ARRIVAL/DELIVERY

This manual provides installation and operational instructions for the PAL Lighting Perimeter Strip Kits. All other LED strip products must adhere to their individual installation guides. Read the installation & operational manual before proceeding with the installation. Keep this manual for future reference. Before starting the installation, check that you have the correct parts below and ensure all are in working condition and not damaged. If any parts are missing and/or damaged, please call or email technical support at +1 (713)-946-4343 / tech@pallighting.com.

3. TOOLS NEEDED

- Measuring equipment and/or measurement of pool/scope perimeter with installation channel accounted
- Marker or chalk line (if cutting/capping strip)
- Cutting tool for LED strip at copper pads (if cutting/capping strip)
- Cutting tool for mounting track
- End cap adhesive, included in kit (if cutting/capping strip)
- End caps, included in kit (if cutting/capping strip)
- Pool-rated construction adhesive for mounting track
- Conduit for power cable (installed during construction)

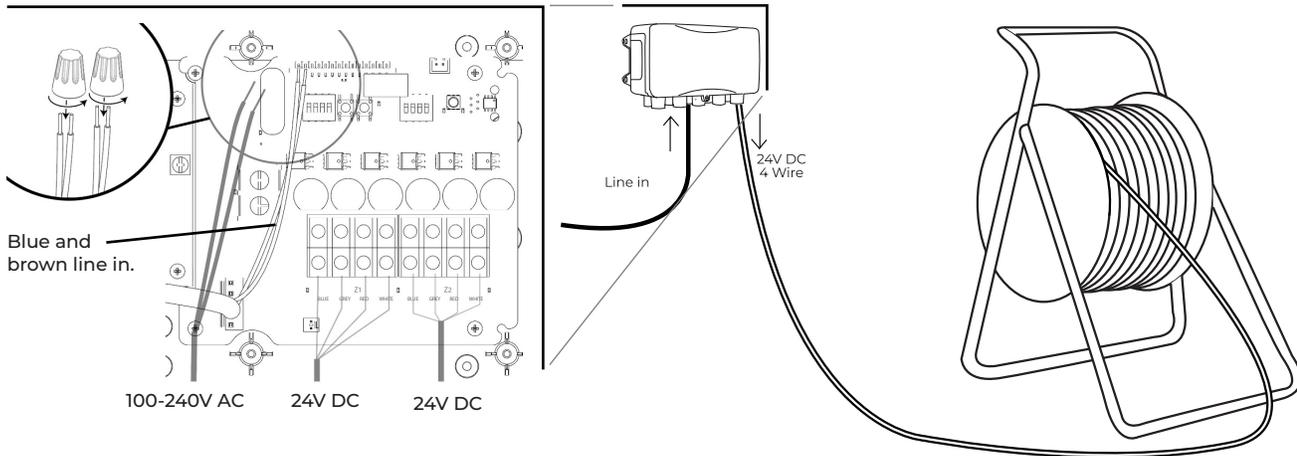
4. CONTENTS

- LED Strip Light (85', 100', or 115') – pre-installed on spool/reel
- PC Mounting Tracks
- End Caps
- End Cap Adhesive Glue Tube
- Remote Driver (100 - 240V input / 24V output – transformer and lighting controller)
- 100' Pre-Installed 4-wire RGB Power Cable (straight-entry connection)

5. BEFORE INSTALLATION

5A - Double check equipment:

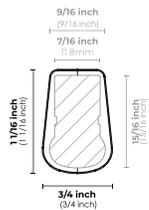
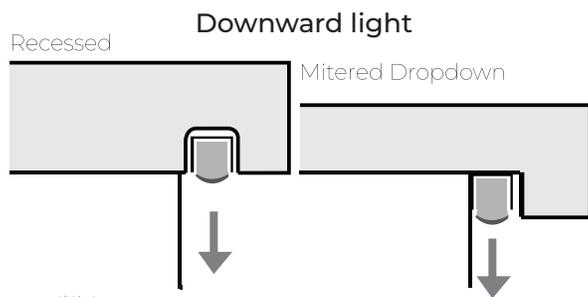
Ensure your strip light and remote driver are both in working condition by connecting strip power cord to the driver and the driver into an outlet or line-in (100 - 240V).



The strip light should light up – if not, ensure connections are correct. If the strip is still unlit please contact PAL Lighting for immediate assistance.

5B - Double check mounting/strip plans:

Your Perimeter Strip Kit will include one of two types of LED strip. One strip that can bend side to side OR one strip that can bend front to back. Make sure you have the right strip type for how you intend to mount the strip.



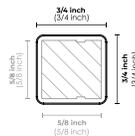
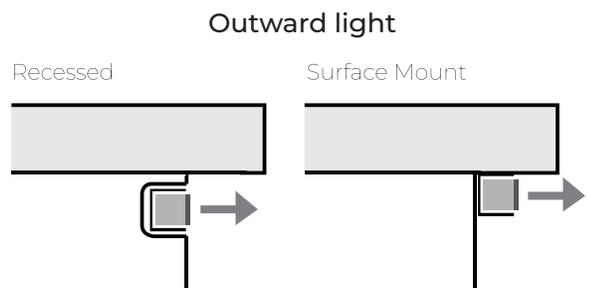
Side bending

Product Numbers:

64-PAL-NFWB8-RGB-STE-085FT

64-PAL-NFWB8-RGB-STE-100FT

64-PAL-NFWB8-RGB-STE-115FT



Top bending

Product Numbers:

64-PAL-NFLT8-RGB-STE-085FT

64-PAL-NFLT8-RGB-STE-100FT

64-PAL-NFLT8-RGB-STE-115FT

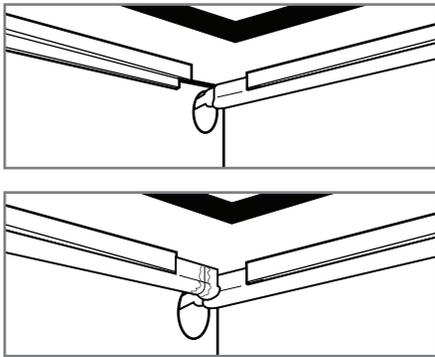
5. BEFORE INSTALLATION (Cont.)

5C - Measure perimeter and things to consider:

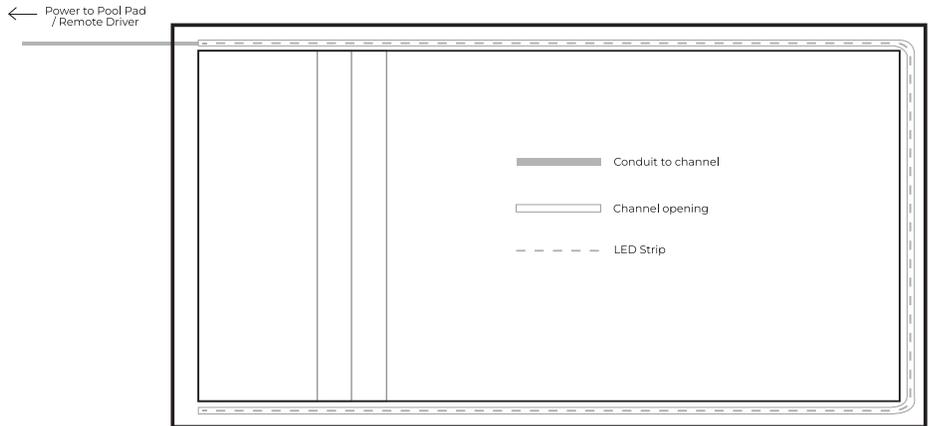
All strip lighting is to be installed in a mounting track. The perimeter must include a channel or room for mounting track with a minimum of 2" overhang. Confirm the length needed after including the channel dimensions.

Full Perimeter

For best results have the end and front meet as close as possible to the conduit opening.

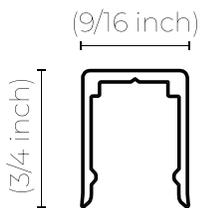


Example pool

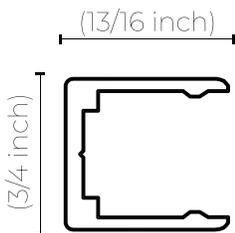


Mounting Tracks

Track must fit within channel / coping over hang.

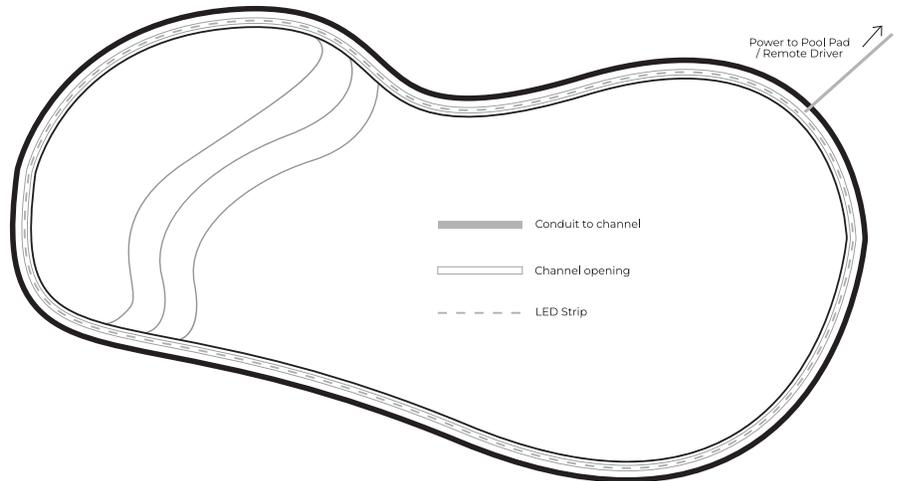


64-PAL-NFWB8



64-PAL-NFLT8

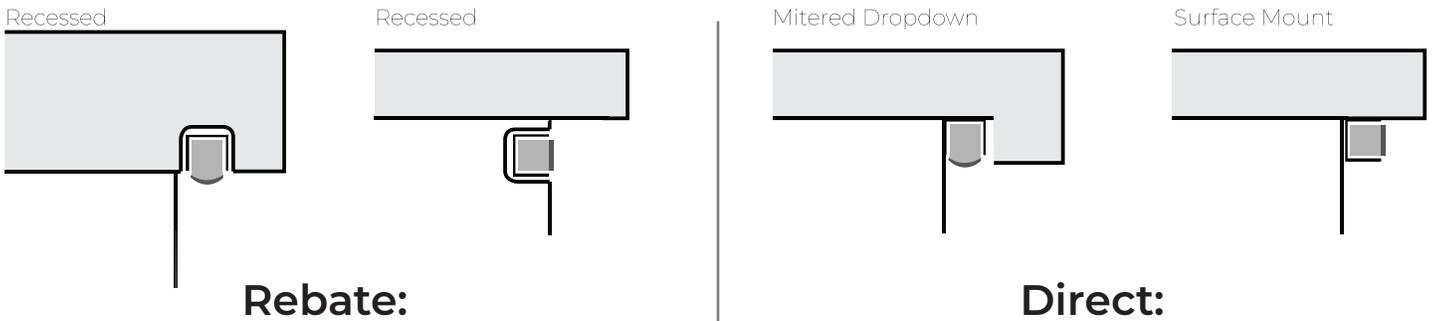
Example pool



6. INSTALLATION

6A - Mounting tracks:

LED Strip will be mounted into provided mounting tracks. These tracks can be cut to size and will need to be cut into smaller pieces when doing long curves. Before installing mounting track it's important to establish how the strip will be mounted.

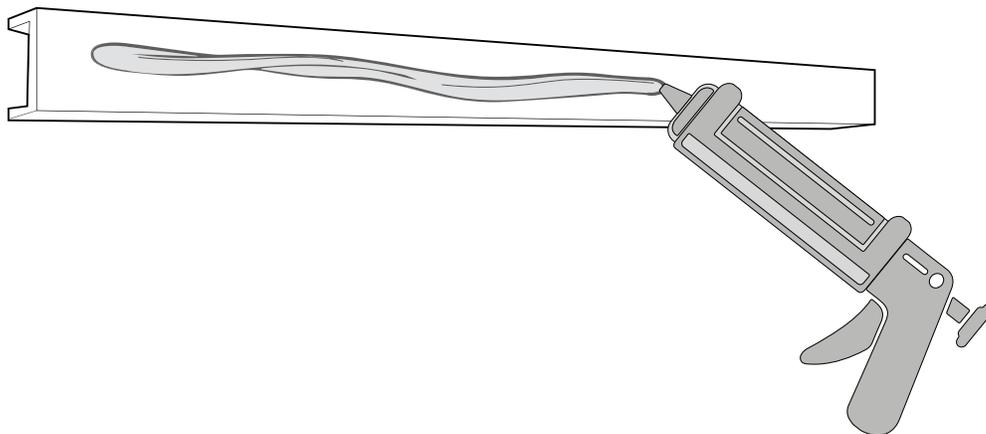


When the LED strip will be recessed, either downward facing or outward facing this can be achieved by either cutting a rebate channel into the material OR by pre-setting the rebate channel with a form in the case of a concrete pour. Many coping manufacturers have options that include this rebate channel as well.

In this installation the mounting track installs directly on a surface and no additional rebate channel is needed.

Securing the PC mounting tracks:

PC mounting tracks are mounted using an adhesive. The adhesive used should be chlorine-resistant, water-proof, and will depend greatly on the mounting surface material. The adhesive MUST be safe to use on PC (polycarbonate) plastic AND the surface material (concrete / vinyl / fiberglass / wood / stone / etc.).

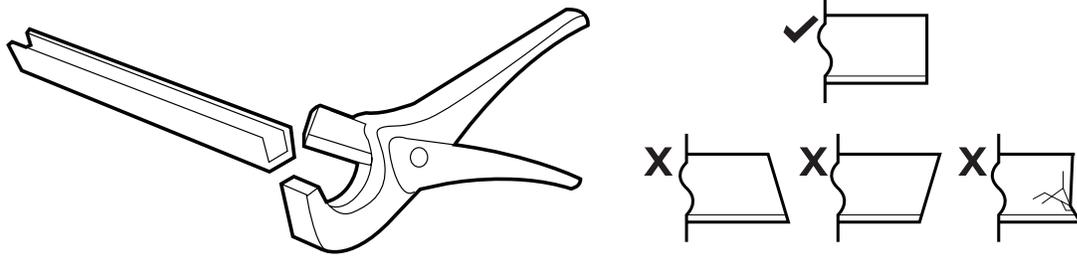


6. INSTALLATION (cont.)

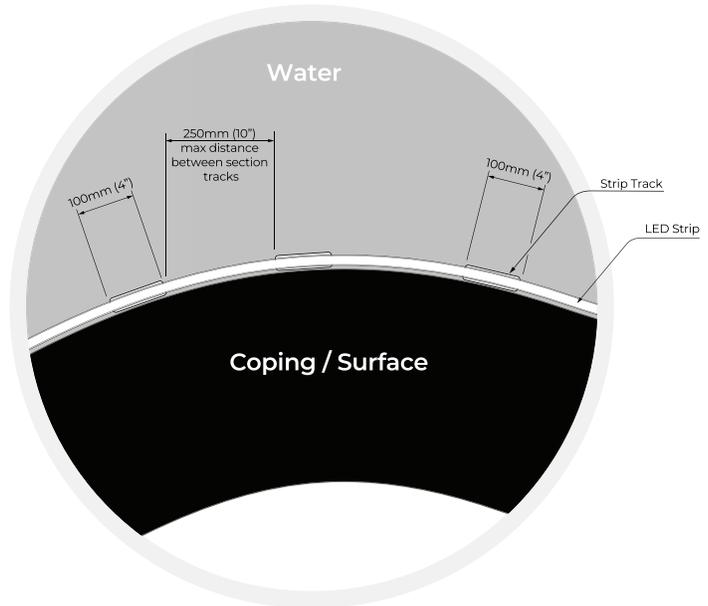
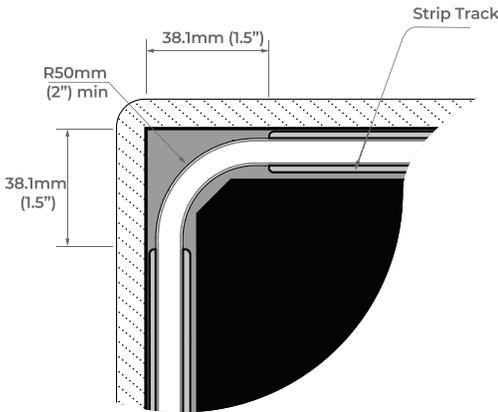
6A - Mounting tracks (cont.):

Cutting:

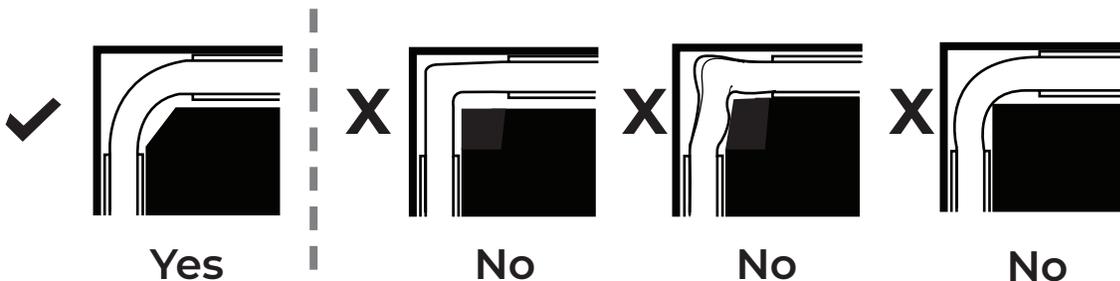
PC mounting tracks should mount end to end on straight run for the length of the run and should be spaced appropriately for curves. Cut PC tracks to lengths needed using pipe cutters meant for 1" - 1.5" pipes. Flat/clean cuts are needed for best results - avoid sharp angles that may puncture strip.



Spacing / Curves:



We recommend no more than 10" between mounting tracks and no less than 4" for any single track piece. Corners should be curved with a 2" minimum radius. NEVER BEND STRIP 90° - Strip is designed to BEND at a minimum of 2 3/8" radius.

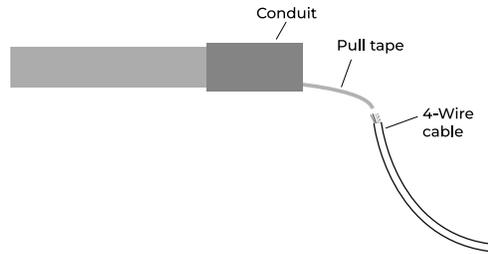


6. INSTALLATION (cont.)

6B - Installing strip:

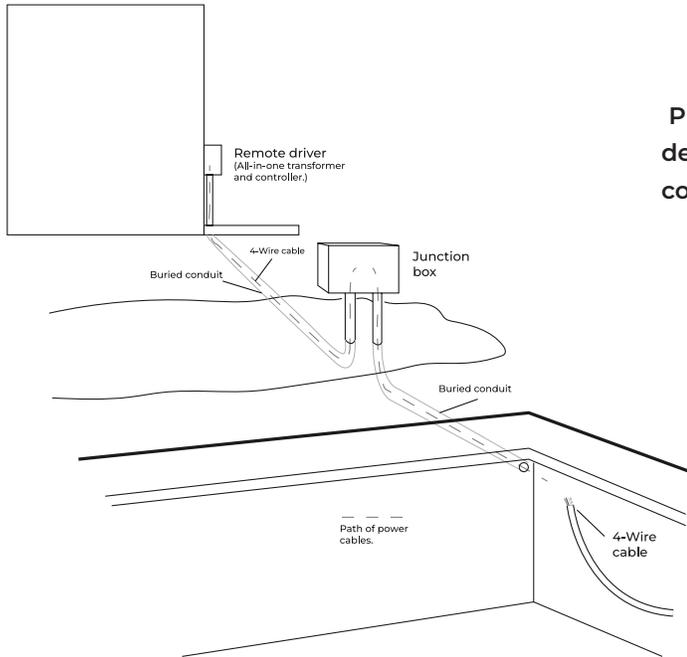
Power cable:

Route the pre-installed 100' power cable through the conduit installed during construction.

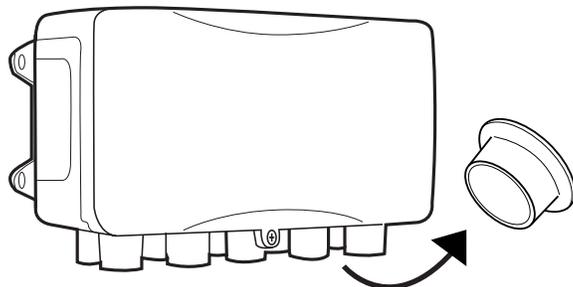


Conduit run should connect at a junction box and then to the equipment pad..

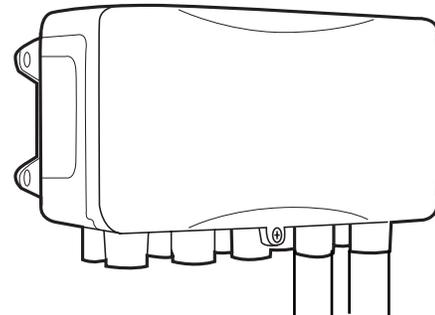
With junction box ex.



Please note – all conduit runs shown are purely for demonstration purposes only. Follow ALL recommended/code compliant buried conduit guidelines as is applicable.



Remote driver includes hard rubber plugs that protect conduit knock-outs. Remove only the ones necessary.



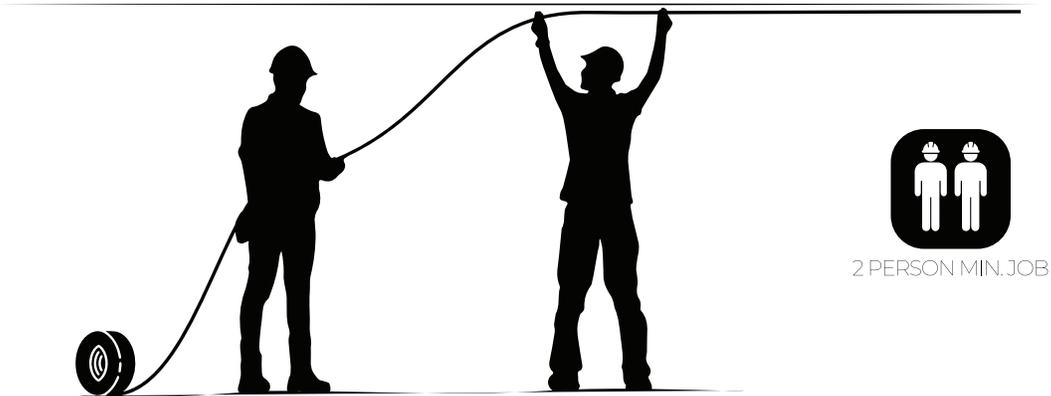
Conduit should run to conduit knock-outs on remote driver. Seal with PVC glue.

6. INSTALLATION (cont.)

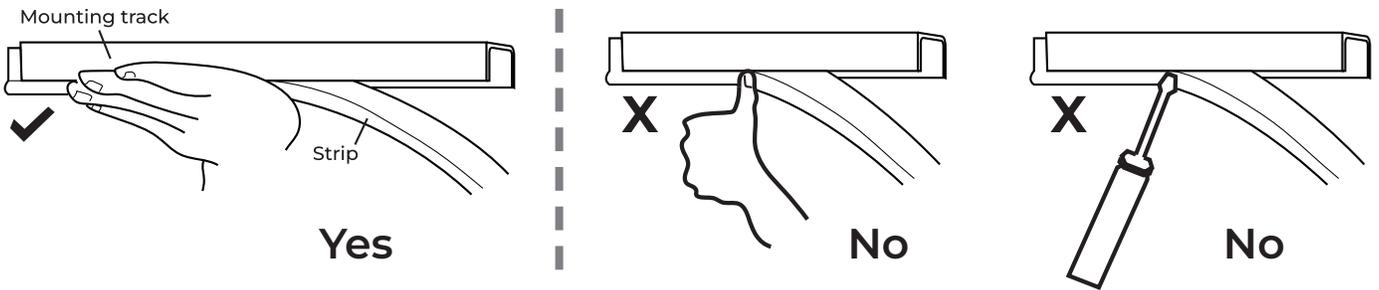
6B - Installing strip (cont.):

LED Strip:

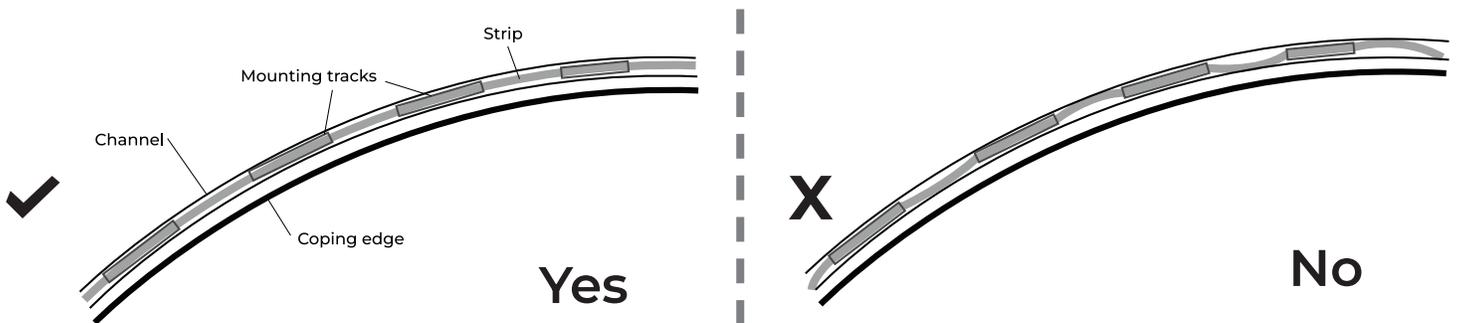
Begin installation at the point nearest the conduit entry. With one installer guiding the unrolling of strip and the second installer using the palm of their hand to press-fit the strip into the PC mounting track.



DO NOT PUSH LED STRIP INTO TRACK WITH SCREWDRIVER OR SIMILAR HARD EDGE TOOL.



Continue around the perimeter, maintaining even pressure and ensuring no kinks, twists, or stress are applied.



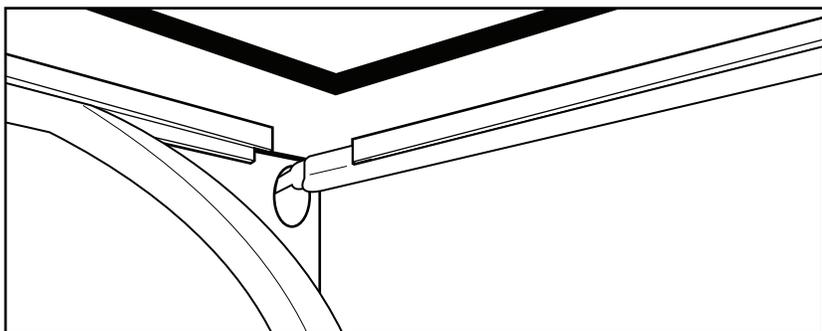
For BEST light results, keep strip as even/consistent as possible to match the shape/curves of the pool. A consistent finish that matches the pool perimeter creates the best results.

6. INSTALLATION (cont.)

6B - Installing strip (cont.):

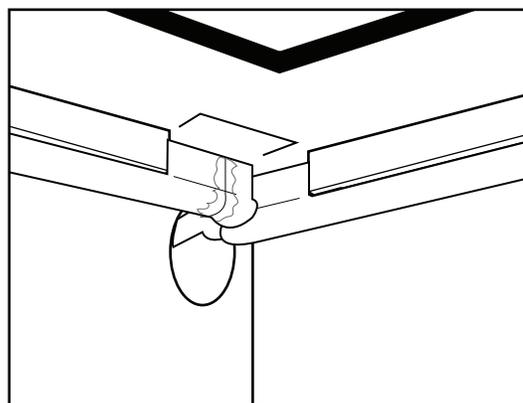
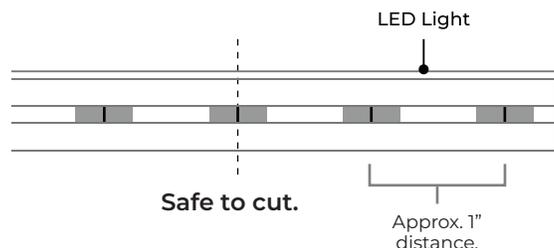
LED Strip ending:

Continue to install LED strip into mounting track until you reach the end of the run. Our perimeter strip is available in 85' / 100' / 115' if your strip meets the end of the run perfectly then finish installing until end of strip is flush. Otherwise you will need to cut the strip to length.



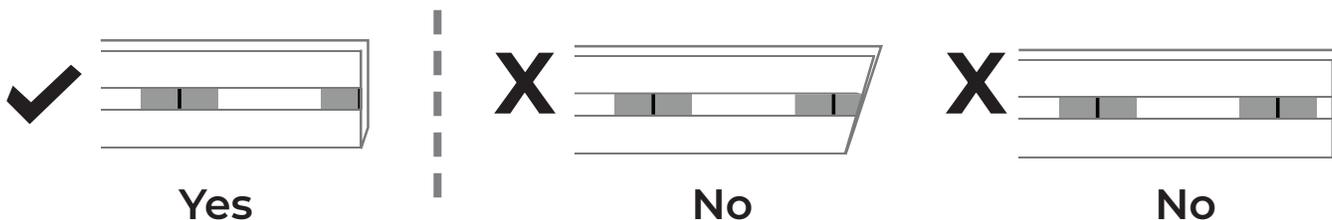
When you reach the end of your planned run and have excess strip, this excess needs to be cut and the end of the strip being installed **MUST** be glued and capped with a 24 hr. cure time to prevent water intrusion.

LED strip can only be cut at certain points. These are marked with a solid line between 2 copper pads. Your strip will have a "window" that you'll be able to see the copper pads. Strip can be cut to increments of 1".



Measure the remaining distance needed and mark/cut to the nearest copper pad that will achieve a flush look. SEE CUTTING / SEALING INSTRUCTIONS ON THE NEXT PAGE.

CUTTING ANYWHERE OUTSIDE OF THE COPPER PADS WILL RESULT IN A DAMAGED LED STRIP.



6. INSTALLATION (Cont.)

6C - Cutting and sealing the LED strip to size (optional)

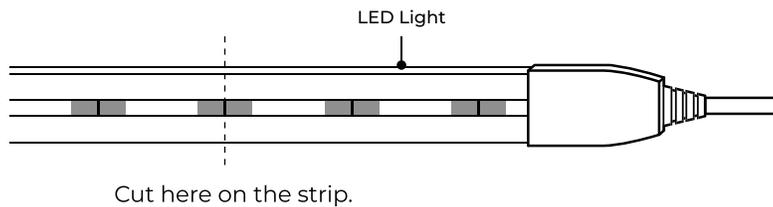
The Perimeter Strip Kit can be cut in-field for best fit. Please note that after LED strip is cut you are at increased risk of defects and water intrusion. Installer assumes all risk of cutting and resealing LED strip.

PLEASE NOTE: Resealed strip requires a min. of 24 hrs. to fully cure in a dry / safe environment. Strip cannot be exposed to ANY water / intrusion within 24 hrs. of sealing. THIS STEP CAN NOT BE SKIPPED UNDER ANY CIRCUMSTANCE.

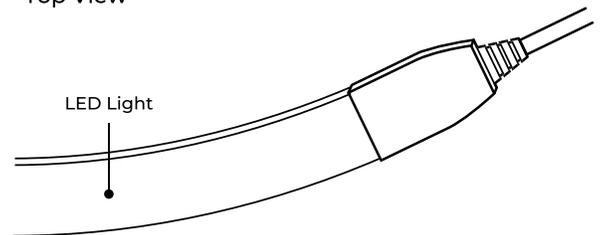
Step 1: Cutting the Strip

- Always disconnect power before cutting.
- Find Cut Points – Look for a dark line between copper pads on the strip.
- Measure Carefully – Mark the closest safe cut point to your desired length.
- Make a Clean Straight Cut – Use a utility knife on a flat, hard surface; avoid crushing or tearing the silicone.

Side View

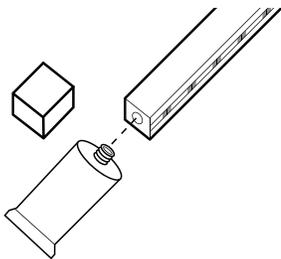


Top View

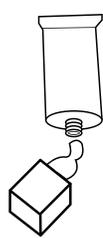


Step 2: Resealing the Strip

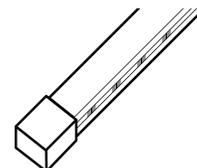
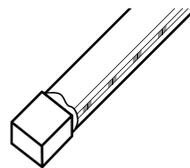
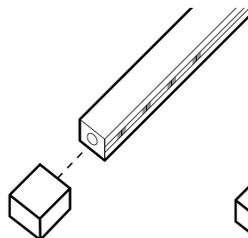
- Apply Provided Waterproof Sealant – Coat the cut end with PROVIDED silicone sealant to close all gaps.
- Install End Cap – Fill end cap at least 50% with silicone sealant. Slide on end cap and seal around it with more sealant.
- Cure Time – Let silicone cure for 24 hours.



Apply silicone into the small hole on the cut end.



Apply silicone into the end cap and secure tightly to the strip. Make sure there are no air bubbles. Remove excess silicone by smoothing out run-off sealant.



MUST USE PAL LIGHTING SEALANT
Part Number:
64-PAL-NF-GLUE

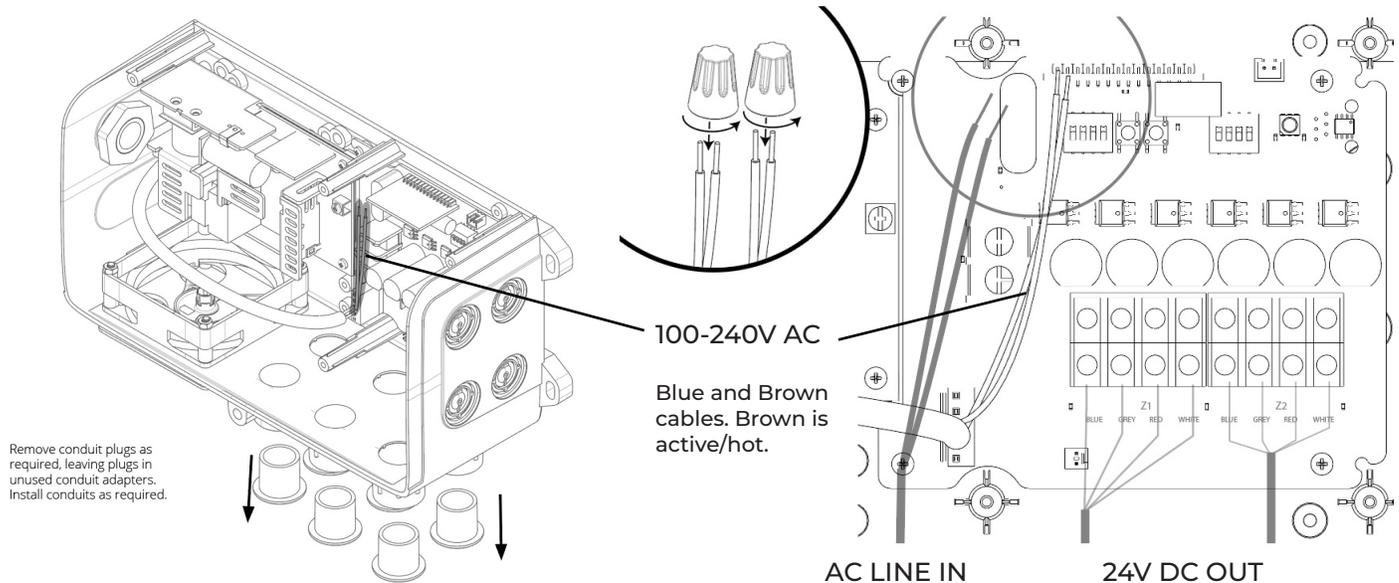
No other silicone / sealant is approved for use.

6. INSTALLATION (cont.)

6D - Wiring power (cont.):

Remote driver:

The remote driver has two loose wires for line-in (100 - 240V AC / Brown and blue wire) and terminals for line out (24V DC). **MAKE SURE LINE IN power is OFF - NEVER DO ELECTRICAL WORK WITH A LIVE LINE.** Connect your line-in into the ACTIVE / NEUTRAL loose wires, using code compliant wire connectors. Connect your 4 wire power cable to the associated terminals. Red to Red / Blue to Blue / White to White / Grey to Green (Grey is used in the power cable to indicate green LED).



Restore power to line-in:

Once all connections are made in the remote driver and any cut/sealed strip has had 24 hrs. of cure time - restore power to line-in to check strip light. LED strip light should power on immediately and have a consistent color / glow / brightness across the length of the strip. Double check any controls operations (remote control, app, automation system, DMX controller, etc.) and you are done.

7. TROUBLE SHOOTING / WARRANTY

Our customer service team is available to assist in any trouble shooting. Please keep in mind that lighting systems can become very complicated and compatibility problems will be a back-and-forth process that may require additional vendors depending on project set up (ex. a Pentair automation system is faulty and causing our LED strip to operate incorrectly). Give us a call or send us an email at: (713) 946 4343 or tech@pallighting.com

ALL WARRANTY information can be found at www.pallighting.com