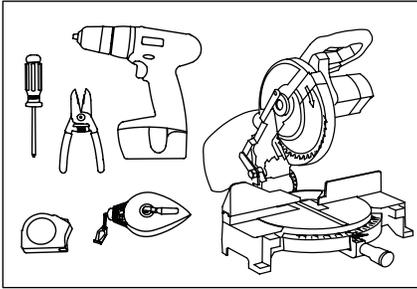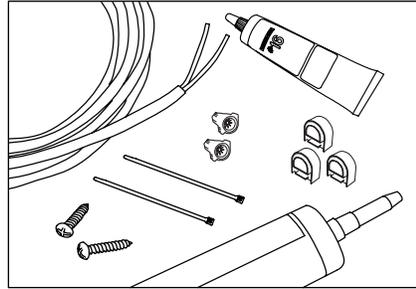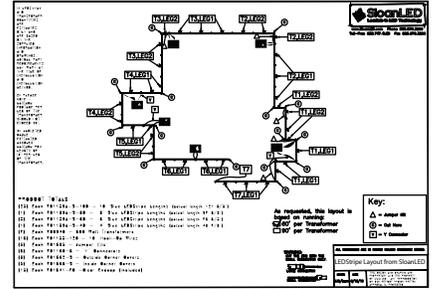# LEDStripe

Installation Guide for 701189-C-(X)


1. **Tools required:** Cordless drill, drill bits, #2 Phillips driver bits, wire stripper, measuring tape, chalk line, marking pens, miter saw (for custom cut lengths), Multi-meter.


2. **Supplies required:** Butt splices (22 -18 AWG, Red), field end cap kit, #8 Pan head, Phillips screws, appropriate thread anchor for the surface it is mounting to, transformer box, silicone sealant, conduit and conduit connectors (water tight if mounting the transformer in a box outdoors), disconnect switch, UL Listed wet location, sunlight resistant PLTC cable.


3. **Layout:** Use an architectural drawing or layout provided by SloanLED (sample above) to determine the number and length of LEDStripe sections and power supplies required for your installation.


Chalk line

#8 pan head screw
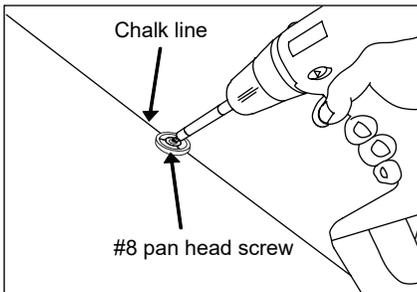
4. **Install mounting buttons:** Snap a chalk line on surface for mounting. Space mounting button 1 1/2 in (38 mm) from the end of each LEDStripe section and every 24 in (610 mm) on center throughout the length of each LEDStripe section. For custom bends and tight corners, see 9 for installation, and use a mounting button every 12 in (305 mm).


Center bracket points up
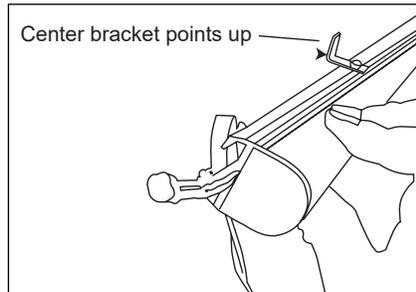
5. **Install LEDStripe sections onto buttons:** Slide or Snap LEDStripe sections onto mounting buttons with center bracket facing up.
NOTE: If installing in temperatures below 40° F (4.5° C), leave a 1/4 in (6 mm) gap between 8 ft (2.44 m) and 10 ft (3.05 m) pieces to allow for expansion at warmer temperatures.


Secure section in place with #8 pan head screws through bracket hole
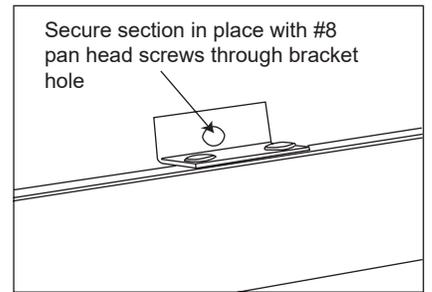
6. **Secure section in place:** Use #8 pan head screws to secure center bracket once all sections are located on the mounting surface

¼ in (6 mm) Gap
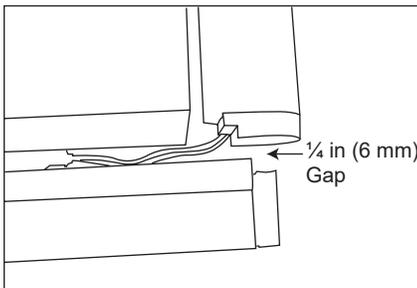
7. **Corners:** Corners should be installed with one section slightly overlapping the other leaving a minimum 1/4 in (6 mm) space. Optional corner covers can be snapped into place.

Small connector

Large connector
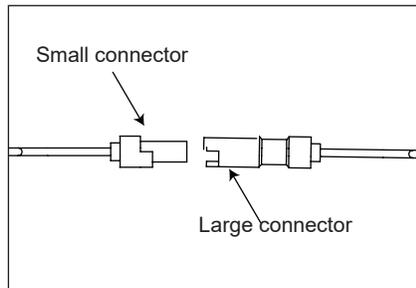
8. **Connect pieces together:** Make sure that tab is aligned with locking clip. Once connected, hide wires at the back of the LEDStripe in the mounting track. Use joint covers to cover.
CAUTION: To maintain the integrity of end caps and prevent water penetration around wires, do not pull or tightly bend wires or allow tension between wire connections.
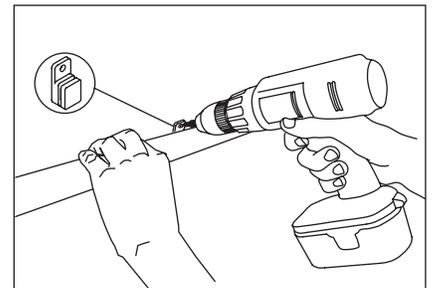

Optional slide and mount rectangle mounting buttons: (not included) are available for hard to mount areas. Slide button onto the back of the LEDStripe and use pan head screw to secure to the wall.

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LEDStripe

Field Cuts

WARNING: Failure to strictly follow these instructions may subject the installer or others to personal injury. Failure to strictly follow these instructions will also void the manufacturer's warranties and may cause risk of fire, product damage, damage to property and injury to persons. Please read all warnings contained below and follow all instructions carefully.



Humiseal 1B73

Weld-On #16

Field End Cap
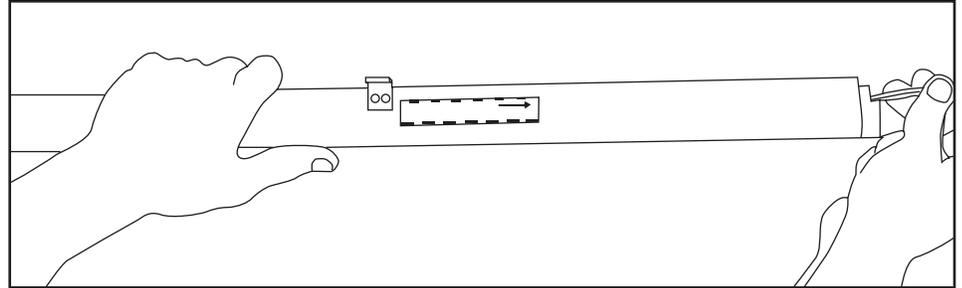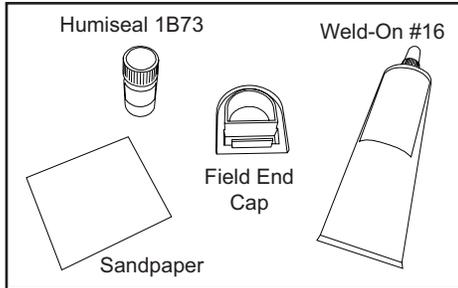
Sandpaper

1. **Gather materials:** Sandpaper, Weld-On #16, Humiseal 1B73 conformal coat (for sealing edge of LED board), and acrylic (field) end-cap.


2. **Prepare LEDStripe for cutting:** Grip LEDStripe with mounting bracket pointing upwards and gently pull right (SMALL) connector to seat circuit board to right edge of tube.
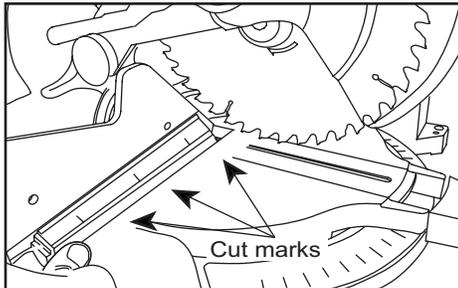
Cut marks

3. **Cut LEDStripe:** All LEDStripe lengths can be cut in the field in 3" (75 mm) increments, except 1' (305 mm) lengths can be cut in 1" to 1 1/2" (25 to 38 mm), on cut marks. To cut a section, measure the length from the LARGE connector end to the cut mark nearest the required length. Use a power miter saw to ensure a straight 90° cut. Use a sharp blade to ensure a smooth clean cut.
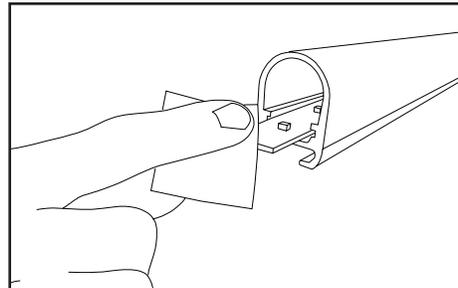
4. **Deburr LED Board and Extrusion:** Gently pull LED board out of tube about 1/4" (6 mm). Deburr cut-end of LED Board and LEDStripe Extrusion with enclosed sandpaper. Make sure to remove all debris from LED board and LEDStripe extrusion.
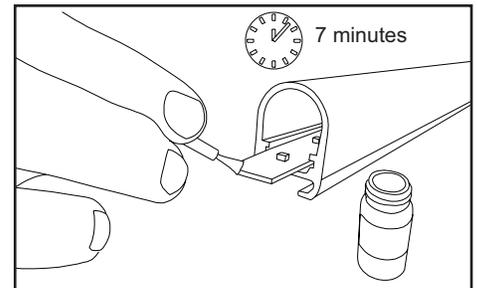
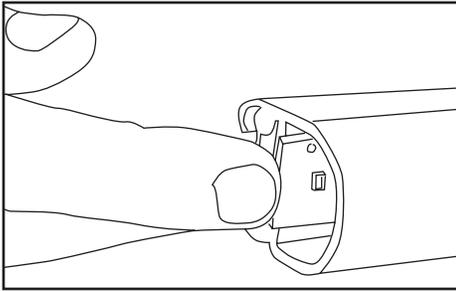7 minutes

5. **Seal end of LED board with conformal coat:** Brush Humiseal 1B73 conformal coat onto cut edge of LED board to seal from moisture. Allow to dry for 7 minutes. Do not apply conformal coat to cut edge of extrusion or end-cap.
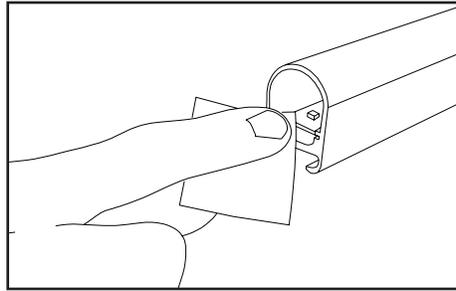
WARNING: Avoid getting Humiseal conformal coat on end of extrusion. Conformal coat will interfere with end-cap bond.

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6. **Push PCB back into extrusion:** After Humiseal has dried for at least 7 minutes, press the circuit board as far into the tube as it will go.
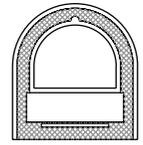

7. **Clean extrusion:** Ensure end of extrusion is clean and free of any foreign material. If any Humiseal adhered to the extrusion, gently sand off. Avoid sanding the edge of the LED board.

Apply a generous continuous bead of Weld-on #16 to entire bonding surface (crosshatched area) on both cut extrusion and end cap.
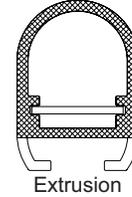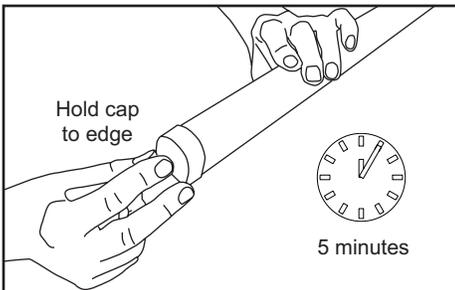

Extrusion   End Cap

8. **Apply Weld-On #16:** Apply Weld-On #16 in a generous continuous bead to both cut end of LEDStripe extrusion and bonding surface on end-cap. See diagram above. Do not use silicone or other solvents/adhesives.

Hold cap to edge

5 minutes

9. **Fit end-cap to cut edge:** After applying Weld-On #16, immediately press the end-cap onto the extrusion. Ensure that the end-cap is aligned, covers entire extrusion opening, and is completely seated against extrusion. Apply pressure to end-cap for 5 minutes. Strong tape can be used to maintain pressure on the end-cap for the curing period.

> **WARNING: It is important to follow and review the safety instructions and MSDS for Weld-On #16 solvent cement packaging and Humiseal 1B73 conformal coat. Follow all safety instructions on Weld-On #16 packaging.**
>
> **Humiseal MSDS available at http://www.humiseal.com/**
>
> **Weld-On #16 MSDS available at http://www.ipscorp.com/**

WARNING: Field end-cap must create a water tight seal. All debris must be removed to promote a good end-cap bond and to avoid electrical failure. Use of other types of saws and/or use of a dull blade may lead to chipping or cracking of the extrusion or create a cut that cannot be sealed resulting in product failure. Ensure extrusion bonding surface is clean. Contaminants or any adhesive other than Weld-On #16 on this surface may lead to poor bonding, water ingress, and product failure. Product failures resulting from failure to strictly follow field cut instructions are not covered by any product warranty.

SAFETY WARNING: Failure of field end-cap to maintain a water tight seal may lead to water ingress and product failure. Product failures of this type could result in electrical shock and/or fire and damage to the product and materials which may come in contact with the product. Electrical shocks may cause injury.

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Installation Guide for 701189-C-(X)
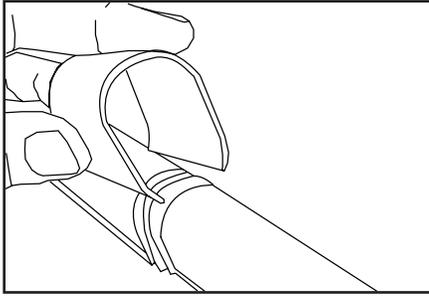
Optional joint covers and corner covers:
Snap the cover into place.

Power Supply (PN# 701895-24C)

Illustrated with 10 ft (3.05 m) LEDStripe lengths
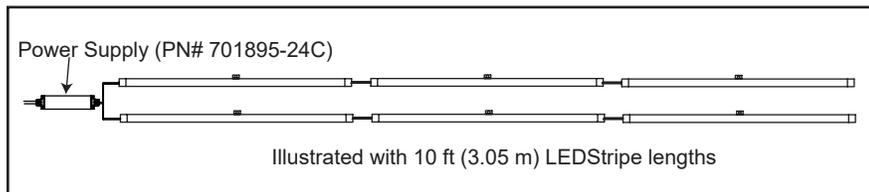
NOTE: Do not combine power supply outputs. Each 24 V circuit must be limited to power supply output rating. For North American installations, a power supply that meets NEC Class 2 specifications is required. **In addition, the LEDStripe load must not exceed 60 ft on a 100 W power supply with no more than 30 ft in each of two or more parallel legs (refer to diagram).**

24 VDC Power Supply Capacity Table for LEDStripe

Part Number	Input		Output		Loading
	Nominal Input Voltage	Input Current	Output power	Output Current	
24 VDC Power Supply (701895-24C)†	100-240 V	1.4 A	100 W	4.2 A	Two legs 30 ft (9.04 m) each*
Compact 24/40 W (410175)	100-277 V	0.6 A	40 W	1.67 A	24 ft (7.3 m)

* If more than two parallel legs are used, check output voltage and current of power supply: Current ≤ 4.0 A, Voltage ≥ 23.3 VDC
† Wet location power supply: Refer to install guide for configurations.

NOTE: For LEDStripe AC transformer power capacity, refer to transformer install guide.

For installation video please visit SloanLED.com/LEDStripe

Troubleshooting:

One complete length of LEDStripe won't light.	Most likely a connector or connection problem. Check connections and voltage at connector. It could be a loose connection, wire, or connector.
More than one length of product does not light.	Most likely a connection problem. Check connections where product stops lighting. Another cause could be that power supply is overloaded and secondary output circuit protection is engaged. Check how many feet/meters of product are on each leg of power supply. Check output current of power supply.
One 3 in (75 mm) section is dark	Problem inside product. Replace entire LEDStripe unit. Call SloanLED for return and replacement instructions.
After cutting, product does not light.	Most likely wrong end was cut. When cutting product make sure that end with the big connector is end that is kept. After cutting, end with small connector is scrap and will not light.
LEDStripe is dim	Power supply is most likely overloaded. Remove section of LEDStripe until full brightness is achieved. Check output current of power supply.

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