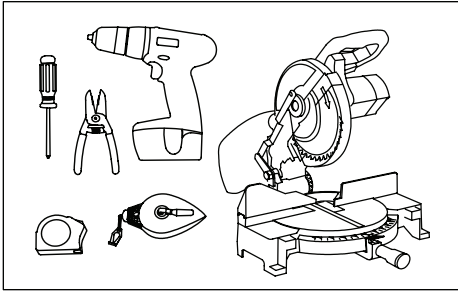
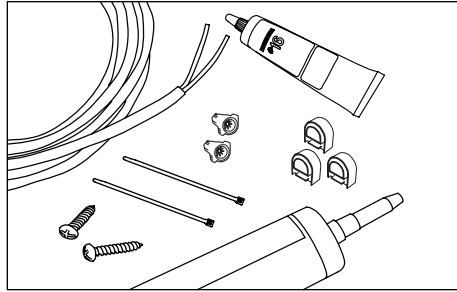


LEDSTRIPE 24V

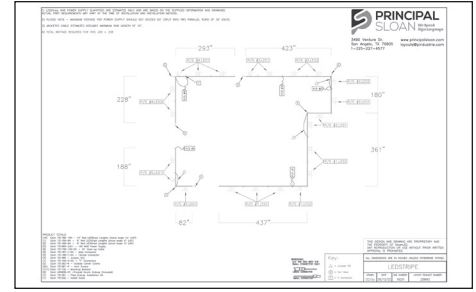
Installation Guide for 701189(Y)-(C)-(X), 701189-(C)-(X), 701189-(X)



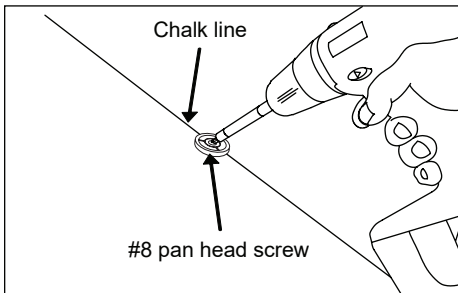
- Tools required:** Cordless drill, drill bits, #2 Phillips driver bits, wire stripper, measuring tape, chalk line, marking pens, miter saw (for custom cut lengths), Multi-meter.



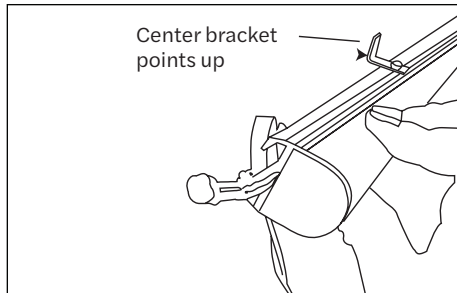
- Supplies required:** Butt splices (22 - 18 AWG, Red), field end cap kit, #8 Pan head, Phillips screws, appropriate thread anchor for the surface it is mounting to, transformer box, silicone sealant, conduit and conduit connectors (water tight if mounting the transformer in a box outdoors), disconnect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



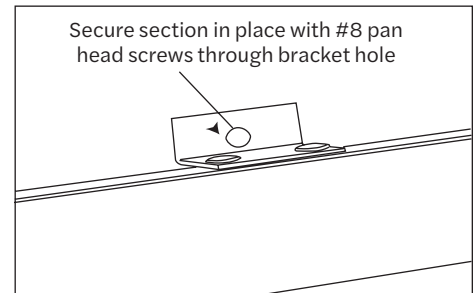
- Layout:** Use an architectural drawing or layout provided by Principal Sloan (sample above) to determine the number and length of LEDStripe 24V sections and power supplies required for your installation.



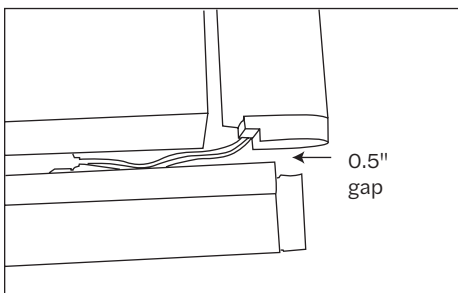
- Install mounting buttons:** Snap a chalk line on surface for mounting. Space mounting button 1.5" from the end of each LEDStripe 24V section and every 24" on center throughout the length of each LEDStripe 24V section. For custom bends and tight corners, see Step 9 for installation, and use a mounting button every 12".



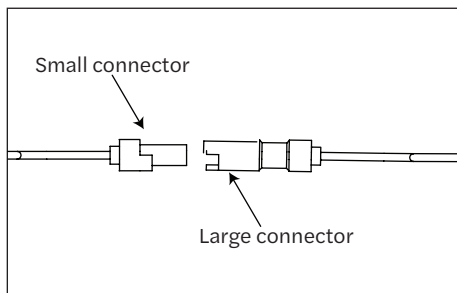
- Install LEDStripe 24V sections onto buttons:** Slide or Snap LEDStripe 24V sections onto mounting buttons with center bracket facing up. **NOTE:** If installing in temperatures below 40° F (4.5° C), leave a 0.25" gap between 8-ft and 10-ft pieces to allow for expansion at warmer temperatures.



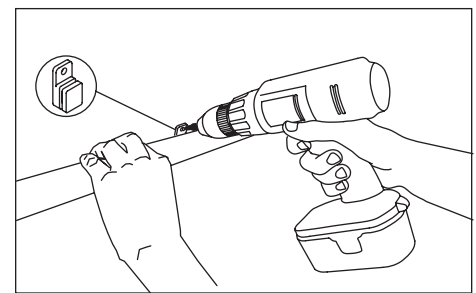
- Secure section in place:** Use #8 pan head screws to secure center bracket once all sections are located on the mounting surface



- Corners:** Corners should be installed with one section slightly overlapping the other leaving a minimum 0.25" space. Optional corner covers can be snapped into place.



- Connect pieces together:** Make sure that tab is aligned with locking clip. Once connected, hide wires at the back of the LEDStripe 24V 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. **ATTENTION:** Pour maintenir l'intégrité des capuchons d'extrémité et empêcher la pénétration d'eau autour des fils, ne tirez pas ou ne pliez pas fermement les fils ou ne laissez pas la tension entre les connexions des fils.



- Optional slide and mount rectangle mounting buttons:** (not included) are available for hard to mount areas. Slide button onto the back of the LEDStripe 24V and use pan head screw to secure to the wall.

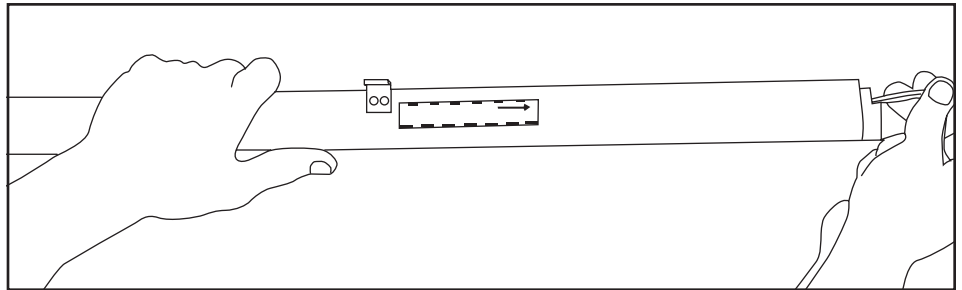
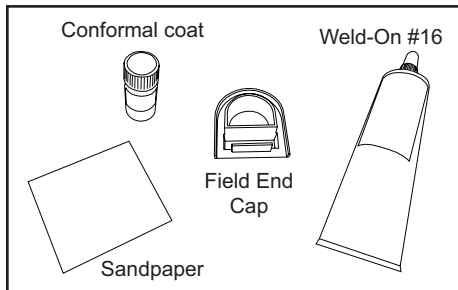
LEDSTRIPE 24V



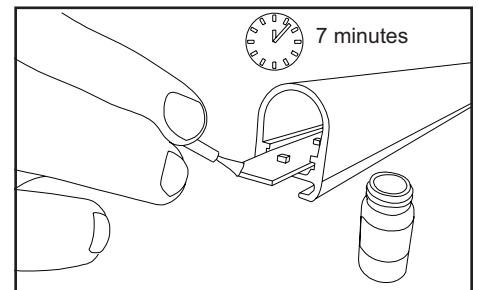
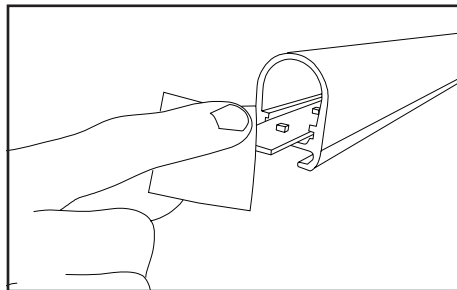
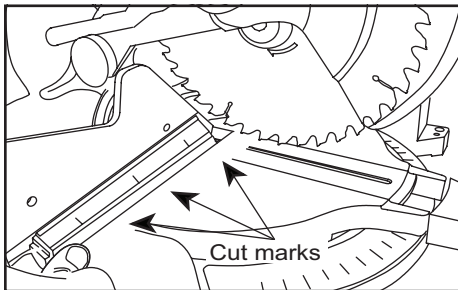
Installation Guide for 701189(Y)-(C)-(X), 701189-(C)-(X), 701189-(X)

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. **AVERTISSEMENT:** le non-respect de ces instructions peut exposer l'installateur ou d'autres personnes à des blessures. Le non-respect de ces instructions annulera également les garanties du fabricant et peut entraîner des risques d'incendie, de dommages au produit, de dommages matériels et de blessures corporelles. Veuillez lire tous les avertissements contenus ci-dessous et suivre attentivement toutes les instructions.



1. **Gather materials:** Sandpaper, Weld-On #16, conformal coat for sealing edge of LED board (Humiseal 1B73 or Electrolube APL), and acrylic (field) end-cap.
2. **Prepare LEDStripe 24V for cutting:** Grip LEDStripe 24V with mounting bracket pointing upwards and gently pull right (SMALL) connector to seat circuit board to right edge of tube.



3. **Cut LEDStripe 24V:** All LEDStripe 24V lengths can be cut in the field in 3" increments, except 1-ft lengths can be cut in 1" to 1.5", 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 0.25". Deburr cut-end of LED Board and LEDStripe 24V Extrusion with enclosed sandpaper. Make sure to remove all debris from LED board and LEDStripe 24V extrusion.
5. **Seal end of LED board with conformal coat:** Brush conformal coat (Humiseal 1B73 or Electrolube APL) 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.

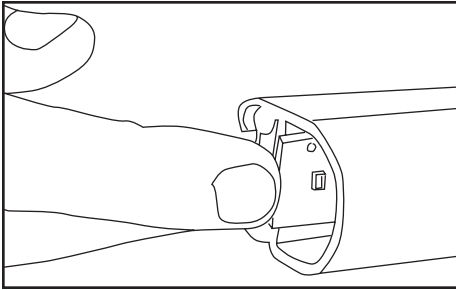
WARNING: Avoid getting conformal coat on end of extrusion. Conformal coat will interfere with end-cap bond.

AVERTISSEMENT: Évitez d'appliquer une couche conforme à la fin de l'extrusion. Une couche conforme interférera avec l'adhérence du capuchon d'extrémité.

LEDSTRIPE 24V

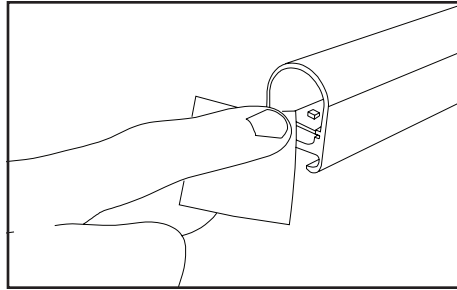


Installation Guide for 701189(Y)-(C)-(X), 701189-(C)-(X), 701189-(X)

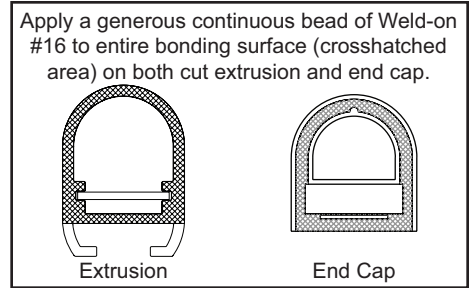


6. Push PCB back into extrusion:

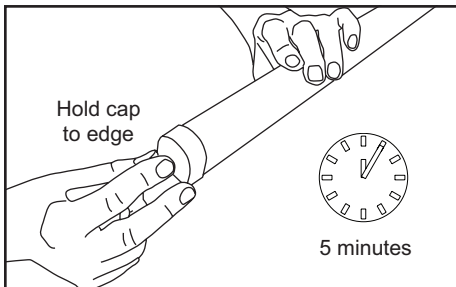
After conformal coat has dried for at least 7 minutes, press the circuit board as far into the tube as it will go.



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



8. Apply Weld-On #16: Apply Weld-On #16 in a generous continuous bead to both cut end of LEDStripe 24V extrusion and bonding surface on end-cap. See diagram above. Do not use silicone or other solvents/adhesives.



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 or Electrolube APL conformal coats. Follow all safety instructions on Weld-On #16 packaging. **AVERTISSEMENT:** Il est important de suivre et de revoir les instructions de sécurité et la fiche signalétique pour les emballages de colle à solvant Weld-On #16 et les couches conformes Humiseal 1B73 ou Electrolube APL. Suivez toutes les instructions de sécurité sur l'emballage Weld-On #16.

Humiseal 1B73 MSDS available at <http://www.humiseal.com/>

Electrolube APL MSDS available at <https://electrolube.com/>

Weld-On #16 MSDS available at <http://www.ipscorp.com/>

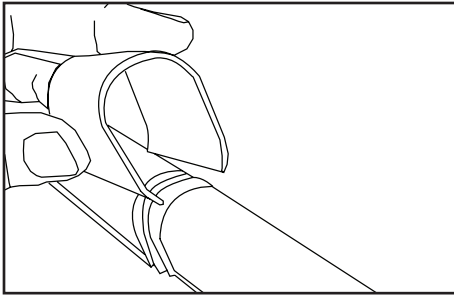
WARNING: Field end-cap must create a water tight seal. All debris must be removed to promote a good end-cap bond and to avoid electrical failure. Use of other types of saws and/or use of a dull blade may lead to chipping or cracking of the extrusion or create a cut that cannot be sealed resulting in 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. **AVERTISSEMENT:** le capuchon d'extrémité de champ doit créer un joint étanche à l'eau. Tous les débris doivent être enlevés pour promouvoir un bien embout et pour éviter les pannes électriques. L'utilisation d'autres types de scies et / ou l'utilisation d'une lame émoussée peut entraîner un écaillage ou une fissuration de l'extrusion ou créer une coupe qui ne peut pas être scellée, entraînant une défaillance du produit. Assurez-vous que la surface de liaison par extrusion est propre. Les contaminants ou tout adhésif autre que Weld-On #16 sur cette surface peuvent entraîner une mauvaise adhérence, une infiltration d'eau et une défaillance du produit. Les pannes de produit résultant du non-respect des instructions de coupe sur site ne sont couvertes par aucune garantie du produit.

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. **AVERTISSEMENT DE SÉCURITÉ:** Le non-respect du capuchon d'extrémité sur site pour maintenir un joint étanche à l'eau peut entraîner une infiltration d'eau et une défaillance du produit. Les pannes du produit de ce type peuvent entraîner un choc électrique et / ou un incendie et endommager le produit et les matériaux qui peuvent entrer en contact avec le produit. Les chocs électriques peuvent provoquer des blessures.

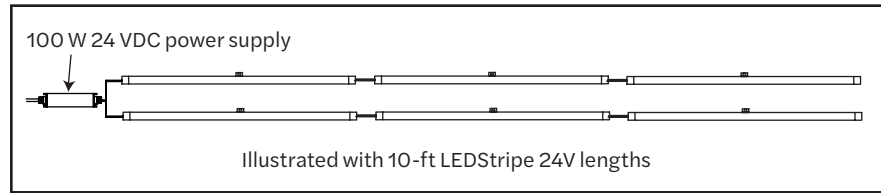
LEDSTRIPE 24V



Installation Guide for 701189(Y)-(C)-(X), 701189-(C)-(X), 701189-(X)



Optional joint covers and corner covers:
Snap the cover into place.



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 24V 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 Chart

Output power	Loading
60 W	36 ft
96 W	Two legs 30 ft each*
3 × 96 W	3 X two legs 30 ft each*
100 W	Two legs 30 ft each*

Capacities based on 90% of power supply output.

* If more than two parallel legs are used, check output voltage and current of power supply:
Current ≤ 4.0 A, Voltage ≥ 23.3 VDC.

For LEDStripe 24V AC transformer power capacity, refer to transformer install guide.

Troubleshooting:

One complete length of LEDStripe 24V 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" section is dark	Problem inside product. Replace entire LEDStripe 24V unit. Call Principal Sloan 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 24V is dim	Power supply is most likely overloaded. Remove section of LEDStripe 24V until full brightness is achieved. Check output current of power supply.



Customer service and technical support

- principalsloan.com
- 325.227.4577
- 3490 Venture Dr., San Angelo, TX 76905

