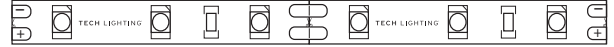


ESSENCE LED Tape

ESLT_ 1.0



ESSENCE



GENERAL PRODUCT INFORMATION: 

This product is suitable for damp locations.

For a list of compatible dimmers, visit our website at www.techlighting.com.

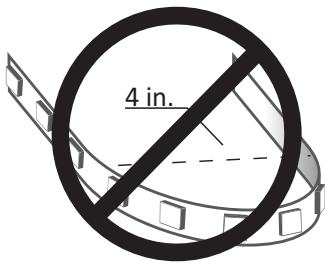
This instruction shows a typical installation.

SAVE THESE INSTRUCTIONS!

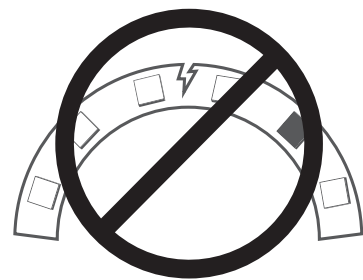
CAUTION - RISK OF FIRE
 This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
Use minimum 90°C supply conductors.

! WARNING DO NOT CONNECT DIRECTLY TO HIGH VOLTAGE POWER!
 Read all warnings and installations instruction thoroughly.

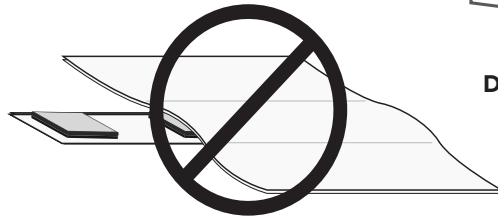
HANDLE PRODUCT WITH CARE!



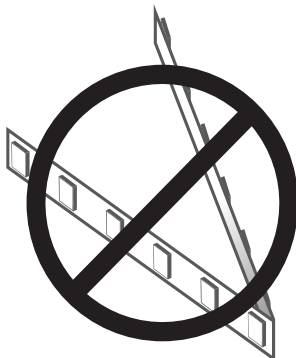
DO NOT BEND LED TAPE TO A DIAMETER LESS THAN 4 INCHES.



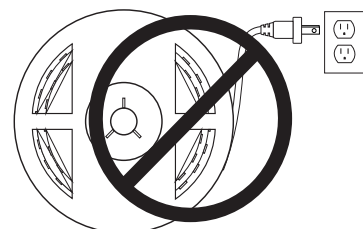
DO NOT BEND LED TAPE ON A HORIZONTAL PLANE.



DO NOT COVER TAPE WITH ANY MATERIALS.

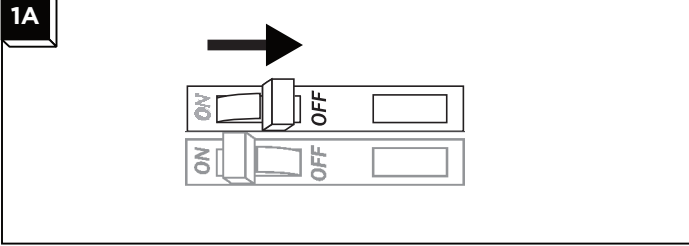


DO NOT FOLD, CREASE, OR TWIST LED TAPE.



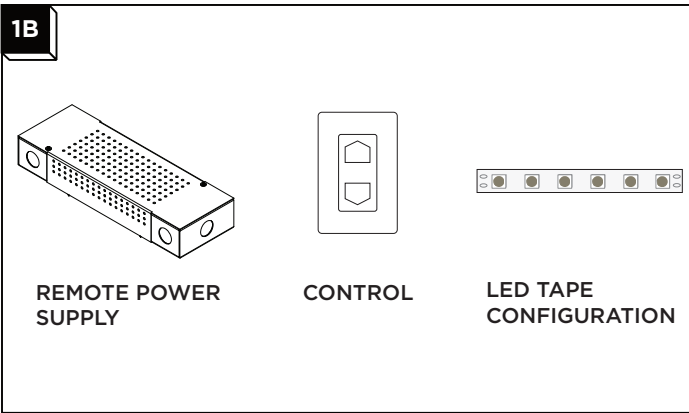
DO NOT POWER LED TAPE WHILE ATTACHED TO SPOOL OR WHILE TIGHTLY COILED.

Prepare for Install



SHOCK HAZARD! May result in serious injury and death. Turn power OFF at circuit breaker prior to installation.

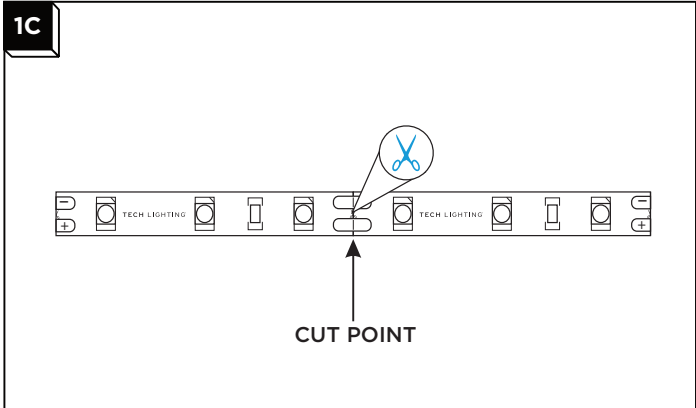
- 1 Turn off power at the circuit breaker.



- 2 Determine the location of the all the components.

NOTE: Ensure applicable wire is installed between power source, fixture and any controls in between. When choosing wire, factor in voltage drop and amperage rating. See voltage drop & wire length distance chart below.

NOTE: Use 14 AWG - 20AWG wire gauge. Stranded, not tinned wire only. If utilizing 14 AWG solid or tinned wire, replace stock screws with included alternates.



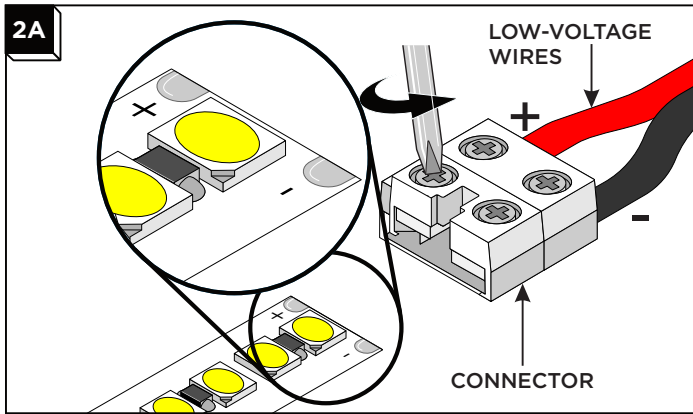
- 3 Cut the LED tape, at the designated cut points, to the desired length. Tape is cuttable in 1.3" increments.

Voltage Drop & Wire Length Distance Table

TOTAL LOAD

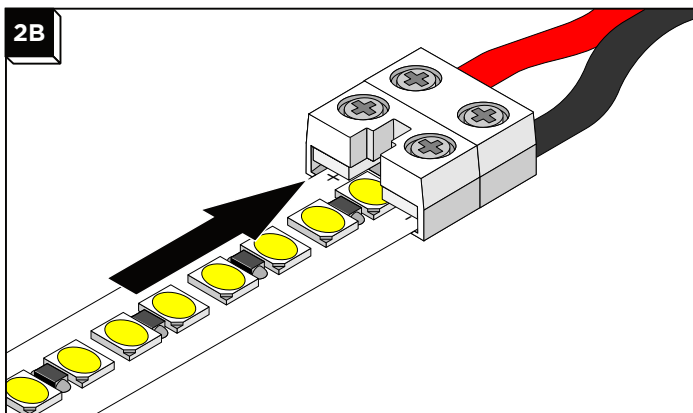
WIRE GAUGE	TOTAL LOAD										
	10W .42A	20W .83A	30W 1.3A	40W 1.7A	50W 2.1A	60W 2.5A	70W 2.9A	80W 3.3A	90W 3.75A	100W 4.2A	
20 AWG	85 ft.	43 ft.	27 ft.	21 ft.	17 ft.	14 ft.	12 ft.	11 ft.	9 ft.	8 ft.	
18 AWG	134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	15 ft.	14 ft.	
16 AWG	215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	24 ft.	22 ft.	
14 AWG	345 ft.	174 fr.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	39 ft.	36 ft.	

Install Tape-To-Wire Connector



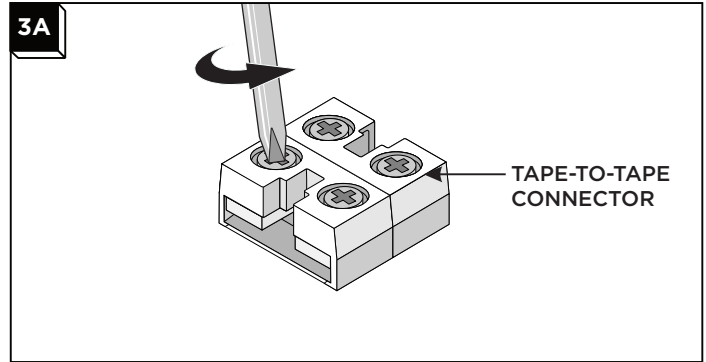
NOTE: Use 14 AWG - 20AWG wire gauge. Stranded, not tinned wire only. If utilizing 14 AWG solid or tinned wire, replace stock screws with included alternates.

- 1 Loosen all four screws on the connector.
- 2 Take note of the polarity on the LED tape and insert the low-voltage power source wires respectively.

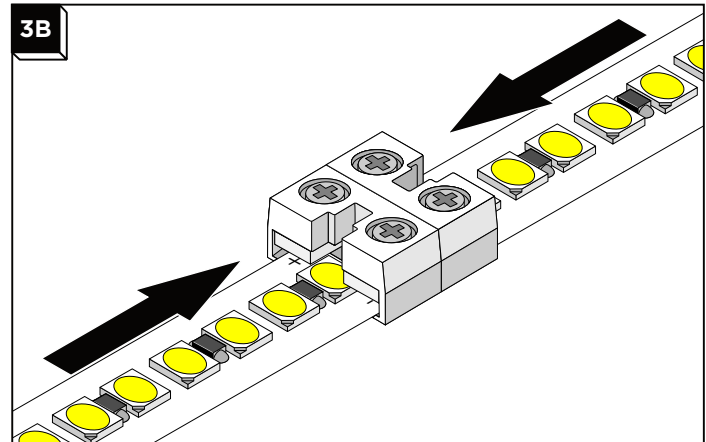


- 3 Firmly Insert the LED tape, with the 3M Adhesive backing still intact, inside the connector.
- 4 Tighten the screws on the terminal block; torque to 2 in-lb maximum.
- 5 If using optional Tape-To-Tape connectors in the run move to section 3, if not skip to section 4.

Install Tape-To-Tape Connector (optional)



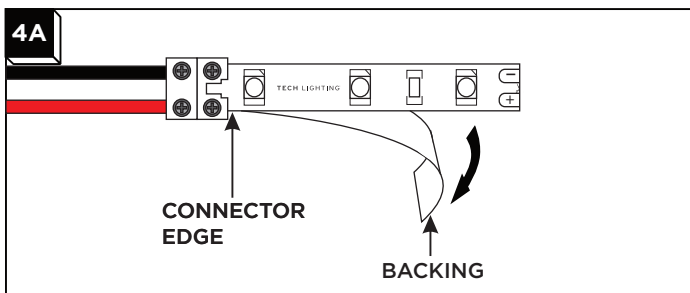
- 1 Loosen all four screws on the connector.



- 2 Firmly Insert the LED tape, with the 3M Adhesive backing still intact, inside the connector.
- 3 Tighten the screws on the terminal block; torque to 2 in-lb maximum.

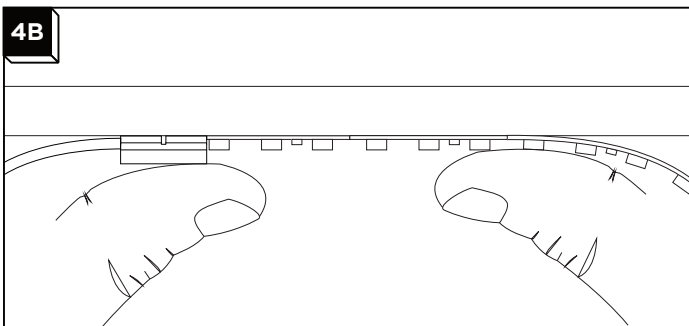
Install the LED Tape

NOTE: The mounting surface must be prepared according to the 3M™ Surface Preparation guidelines. (<https://multimedia.3m.com/mws/media/660190/vh/btm-tape-surface-preparation-technical-bulletin.pdf>) Attachment surfaces must be clean and free of dust, oils and loose particles. Most substrates are best prepared by cleaning with a mixture of 70% isopropyl alcohol prior to applying 3M™ tapes. Exceptions include Heavy Oils, Abrasion, Adhesion Promoters, Porous Surfaces and Unique Materials. Rough, porous or fibrous materials such as wood, particle board, cement, etc., have an open surface and require sealing to provide a unified surface for tape bonding. Common sealing materials would include paint, varnish or other hard surface coatings. Glass, stone, ceramic and PVC are unique materials and require additional preparation to ensure bonding.



- 1 Prior to mounting, connect the tape to power supply and turn on the power to test connectivity and to ensure the system is operating properly. Turn off power before continuing with the installation.
- 2 Prepare the mounting surface according to the 3M™ Surface Preparation guidelines.
- 3 Peel off the 3M Adhesive backing and tear off backing along the connector(s) edge.

NOTE: ensure the ambient temperature is minimum 50° F (10° C) or the tape will not adhere properly.



- 4 Adhere to a smooth, dry surface, working one end to the other.
- 5 Turn the power on at the breaker.

 **TECH LIGHTING**

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