

TE-SERIES INSTALLATION GUIDELINES

Standard and Enhanced Series

CAUTIONS

CAUTION – RISK OF SHOCK – Disconnect Power at the main circuit breaker panel or main fusebox before starting and during the installation.

WARNING:

- This fixture is intended for installation in accordance with the National Electrical Code (NEC) and all local code specifications. If you are not familiar with code requirements, installation by a certified electrician is recommended.
- This lighting fixture is suitable for indoor use, dry or damp locations.
- The LED light output is strong enough to injure human eyes. Precautions must be taken to prevent looking directly at the LED's with unaided eyes for more than a few seconds.
- Supply leads and interconnects are not listed for in-wall use. In-wall rated wire may be purchased separately. Read all instructions thoroughly before starting installation.

TOOLS FOR INSTALLATION

- | | | |
|--|---|--|
| [A] Saw | [C] Metal File or Sandpaper | [E] Screwdriver |
| [B] Metal or Metal/Plastic Cutting Blade/Cutoff Wheel | [D] Drill and Drill Bits and Countersink | [F] Soldering Iron & Solder (Recommended) |

In addition to these instructions see our general tape light installation instruction online or in our catalog. Also, see the tape and channel compatibility matrix at the end of this guide.

INSTALLATION INSTRUCTIONS

DETERMINE LED TAPE AND CHANNEL LENGTH

- Channel should be approximately 1 inch longer than the Tape Light. This will allow for connections to be made and wires to exit the end caps.
- End caps will add some length to overall tape in channel assembly. To account for this, mock up the channel with the end cap and measure the overall length.
- Mounting clips will add height; mock up the assembly and check for desired fit.

CUT THE CHANNEL AND LENS

- Channel can be cut with metal or metal/plastic cutting blade or cutoff wheel. The recommended method is a benchtop miter saw with an appropriate blade.
- Lenses can be cut with a plastic or combination metal/plastic cutting blades. The recommended method is a benchtop miter saw with an appropriate blade.

Tip: Use Sandpaper or Metal File to remove rough edges and burrs after cutting.

FCC Information:

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However,

MOUNTING OPTIONS

Although mounting is typically near the end of the installation it is best to consider the mounting method at the beginning of the job and plan accordingly.

Standard – Direct Mount:

Simply drill a hole through the channel and countersink the hole so the head of the screw is flush with the LED tape light mounting surface. This will ensure the tape light is not uneven in the channel.

Standard – Mounting Clips:

Draw a straight guideline on your desired installation location and mark the mounting hole location for each mounting clip. One clip per foot is recommended. Pre-Drill pilot holes and fasten the mounting clips with screws. Be sure to orient the clips to the direction of the channel. Clips provide an audible click, ensuring correct and complete installation.

Standard - Recessed:

Assuming the appropriate space to recess the channel is available or has been fabricated/routed, drill a hole through the channel and countersink the hole so the head of the screw is flush with the LED tape light mounting surface. This will ensure the tape light is not uneven in the channel. Recessed Channels may also be secured using construction adhesive in cases where there is no support behind the recess.

Enhanced – Direct Mount:

Drive a screw into the desired mounting surface and slide the channel over the screw head. The T-Slot on the rear of the channel will hold the head of the screw. For vertical or angled installations where more grip is needed to keep the channel from moving, a hole can be drilled through the LED Tape Mounting surface. Prior to installation of the LED tape, drill from the front side of the channel through ONE wall of the channel to expose the head of the screw. Once the screw location is exposed, install and tighten as needed.

Enhanced – Recessed Mount:

Assuming the appropriate space to recess the channel is available or has been fabricated/routed, insert one universal spring clip into the T-slot or slots in the rear of the channel. Alternate the spring clips facing each spring clip in the opposite direction of the previous. Evenly space the spring clips. One spring clip per foot is recommended. By folding back the springs clips and inserting the assembly into the recess, the spring clips will open inside the recess and pull the channel snug to the mounting surface. Recessed Channels may also be secured using construction adhesive or directly mounted where support is available behind the channel.

Use an appropriate fastener for your mounting material; #8 flat head screws are recommended for T-slot applications.

Follow local codes with regards to modifying structures such as load bearing walls.

there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

TEST CONNECTIONS

As with all LED Tape Light installations, it is good to test the system before committing to the installation. Simply cut and layout all sections of tape light, making all electrical connections and power on the system to ensure proper operation.

ASSEMBLE THE LED TAPE AND CHANNEL, AND INSTALL.

- Adhere the tape to the channel by removing the adhesive backing.

Tip: Indicator markings on the LED tape mounting surfaces in the channels help guide straightness when applying the LED tape.

- Make final electrical connections inside the channel. Soldering is recommended.

Tip: For one tape wide channels, either solder connections or omit an endcap so a connector can be fastened to the LED tape outside the channel.

- Snap in Lens. Listen for an audible click while applying pressure to ensure proper assembly.
- Press on or fasten end caps with provided screws.
- Install the assembly using the chosen mounting considerations.
- Complete the installation by making final electrical connections using typical LED tape installation instructions.

COMPATIBILITY MATRIX*

Use this Chart to Maintain LED Tape Light 50°C Max Ambient Operating Temp in Channel Assembly		Tape Light		
		Standard	High	Ultra High
		1.5W/FT	3W/FT	7.2W/FT
		6T1xxxS 4T1xxxS	6T1xxxH 4T1xxxH	6T1xxxUH
TE-SERIES STANDARD	1TEEx145SFxxx	✓	✓	✗
	1TEEx1SWSF/RCxxx	✓	✓	✗
	1TEEx1STSF/RCxxx	✓	✓	✗
	1TEEx1DWSF/RCxxx	✓	✓	✗
TE-SERIES ENHANCED	1TEC130SFxxx	✓	✓	✗
	1TEC3SWSFxxx	✓	✓	✗
	1TEC2STSF/RCxxx	✓	✓	✗
	1TEC2DWSF/RCxxx	✓	✓	✗
	1TEC3DWSF/RCxxx	✓	✓	✗

*For Indoor, Dry Locations.

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