GMLighting®
"Lighting Enhanced by Design"

INSTALLATION AND OPERATING INSTRUCTIONS
LTR Series Dry Location (Indoor) LED Tape

BEFORE YOU START:

- Please check local Electrical codes before beginning
- Turn power off before installing
- Make sure to use properly rated wire

TOOLS NEEDED:

• Screwdriver to connect tape to tape or tape to power using Sure-Tite™ connectors, or to attach mounting extrusion channels to surface.

1. WE RECOMMEND THAT YOU ENGAGE A QUALIFIED AND LICENSED ELECTRICIAN FOR YOUR LTR SERIES INSTALLATION.

2. DETERMINE YOUR LAYOUT AND PLACEMENT OF REMOTE POWER SUPPLY. MOUNT POWER SUPPLY CONCEALING IT FROM EXPOSURE TO INCLEMENT WEATHER AND MOISTURE. CLEAN SURFACE WHERE YOU ARE APPLYING TAPE TO MAKE SURE IT IS FREE OF DUST AND ANY MATERIAL THAT MAY IMPEDE ADHESIVE.

2. MOUNTING DRY LOCATION TAPE:
Roll enough tape that is needed from reel. Return reel to anti-static bag to keep tape dry and free from static electricity. **(FIG. 1).** You have the option to connect tape to power supply at this point, or you can wait until your tape layout is completely mounted. Let's mount the tape first.

Remove adhesive backing paper, revealing adhesive material. **(FIG. 2)**. Press tape onto surface firmly, starting at one end and gradually moving along surface, making sure that tape is smooth and not creased **(FIG. 3)**. **SEE IMPORTANT NOTE BELOW ON MOUNTING TAPE IN CHANNELS.**

2. CUTTING AND JOINING TAPE

Depending on the tape that you are working with, your cut lines will be separated by anywhere from 1", 2" or 4" - refer to the vertical cut marks **(FIG. 4)**. This is where you will make all your cuts to either join two sections of tape, or to connect the tape to power supply.

FOR DIRECT TAPE TO TAPE CONNECTION, USE STC-1 (LTR-E Series), or ESTC-1 (LTR-P or LTR-S Series)

Cut tape at cut mark on both lengths to be joined. Loosen all 4 terminal screws on **Sure-Tite** connector **(FIG. 5)**. Peel back 1/4" of adhesive backing to expose copper buss on back of tape. Insert cut ends of tape into connector on each side **(FIG. 6)**. Tighten screws and insure that connection is tight by gently tugging on both ends of tape. Secure connector to surface.

For adjustable tape to tape connections (FIG. 7):
Using the same steps that require you to loosen terminal screws and peel back adhesive back, insert tape into open end of each connector on both ends. The adjustable connector provides electrical current to the other Sure-Tite. Tighten screws and positon tape, taking advantage of the up to 60" that the adjustable wired connection allows.

Connecting tape to power supply (Fig. 7):
Cut tape at cut mark at end of your layout or run. Loosen terminal screws on the two screws facing tape. Insert cut end of tape and tighten screws. Insure that connection is tight by gently tugging on tape. Wire other end of **Sure-Tite ESTW-60** to power supply.

NOTE: WE RECOMMEND THAT TAPE BE PLACED IN A GM LIGHTING SUITABLE MOUNTING CHANNEL FOR PROPER THERMAL MANAGEMENT. TAPE WILL GET HOT. PLEASE REFER TO MOUNTING CHANNEL INSTRUCTIONS SUPPLIED WITH CHANNEL.

DIMMER COMPATABILITY NOTES ON BACK OF THIS INSTRUCTION SHEET.

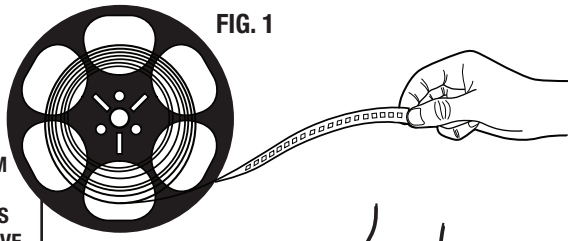


FIG. 1

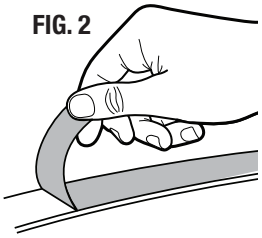


FIG. 2

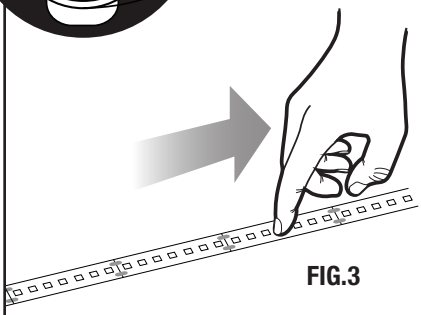


FIG.3

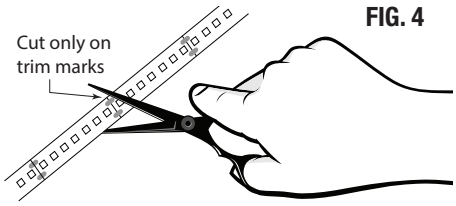


FIG. 4

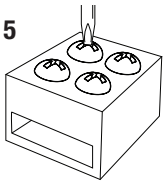


FIG. 5

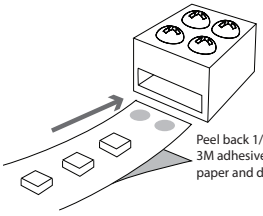


FIG. 6

NOTE: FIG. 7 AT RIGHT SHOWS A TYPICAL TAPE TO TAPE ADJUSTABLE CONNECTOR EXAMPLE. TAPE TO POWER SUPPLY WORKS THE SAME WAY - INSTEAD OF A SECOND SURE-TITE, CONNECTOR WIRES GOES DIRECTLY TO POWER SUPPLY

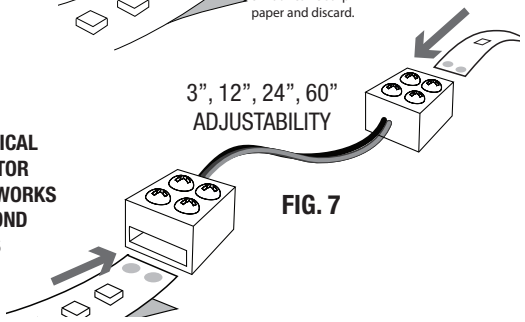
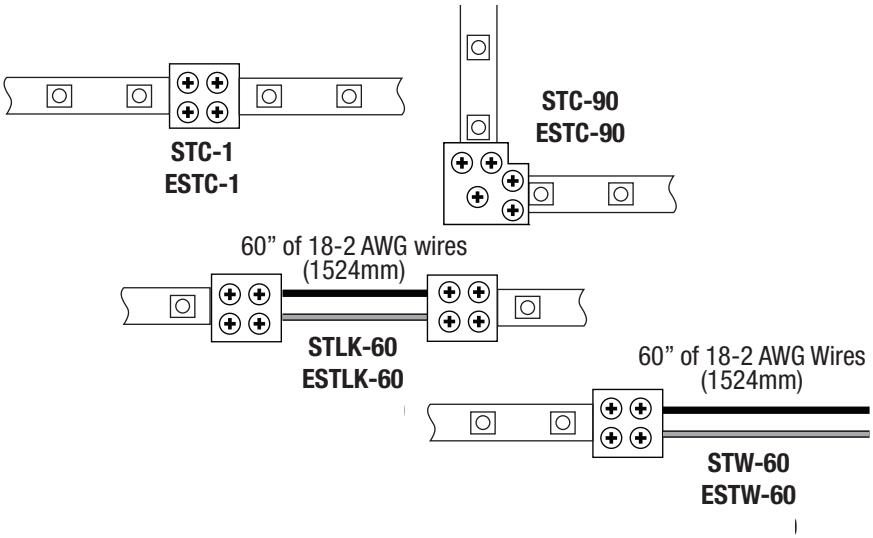


FIG. 7



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DIMMER COMPATABILITY CHART FOR USE WITH
LINEDrive™ Power Supplies and LTR Series Dry Location (Indoor) LED Tape

LTR Series Dry and Wet Location Tape (except RGBW) utilize standard dimmers that are widely available. To insure that your LED Tape Application is paired with the right dimmer, please consult this easy to use chart.

LINEDrive Series Driver	LTR Series	Dimmer
LTHM SERIES MAGNETIC DIMMABLE DRIVERS	LTR-P Series LTR-S Series (except RGBW) LTR-E Series	LUTRON DVLV EATON COOPER TAL600 LEGRAND RH703
LTF SERIES ELECTRONIC DIMMABLE DRIVERS		LUTRON DVLV600 LUTRON DVRP LUTRON MRF2 6ELV
PSD SERIES ELECTRONIC DIMMABLE DRIVERS		LUTRON DVLV LUTRON MACL LUTRON DVCL

LEDTASK™ VOLTAGE DROP CHART
FOR ALL 12VDC / 24VDC FLEXIBLE STANDARD AND HIGH OUTPUT LED RIBBON

Wire Size	Distance	12V - 2A 24 Watts	24V - 2A 48 Watts	12V - 4A 48 Watts	24V - 4A 96 Watts	12V - 8.33A 100 Watts	24V - 8.33A 200 Watts	12V - 16.7A 200 Watts	24V - 16.7A 400 Watts	12V - 25A 300 Watts	24V - 25A 600 Watts
18 AWG	10 feet	11.74	23.7	11.49	22.8	10.94	23.9	9.87	21.96	8.81	N/A
	25 feet	11.36	23.3	10.72	21	9.34	21.34	N/A	18.91	N/A	N/A
	50 feet	10.72	22.7	9.45	18	N/A	18.6	N/A	10.1	N/A	N/A
	100 feet	9.45	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	200 feet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14 AWG	10 feet	11.90	23.01	11.80	23.60	11.58	23.58	11.16	23.20	10.75	22.75
	25 feet	11.75	23.70	11.49	22.80	10.95	23.96	9.89	22.00	8.84	20.85
	50 feet	11.49	23.50	10.99	21.60	9.90	21.91	7.78	19.96	5.69	17.71
	100 feet	10.99	23.01	9.98	19.40	7.79	19.80	N/A	N/A	N/A	N/A
	200 feet	9.98	21.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 AWG	10 feet	11.94	23.90	11.87	23.80	11.74	23.73	11.47	23.50	11.21	23.20
	25 feet	11.84	23.90	11.68	23.20	11.34	23.34	10.67	22.73	10.01	22.02
	50 feet	11.68	23.84	11.36	22.60	10.68	22.68	9.35	21.46	8.03	20.03
	100 feet	11.36	23.36	10.73	21.00	9.35	21.36	N/A	N/A	N/A	N/A
	200 feet	10.73	22.73	9.46	18.00	N/A	18.72	N/A	N/A	N/A	N/A
10 AWG	10 feet	11.96	23.96	11.92	23.80	11.83	23.83	11.67	23.68	11.50	23.50
	25 feet	11.90	23.90	11.80	23.60	11.53	23.58	11.17	23.20	10.75	22.76
	50 feet	11.80	23.90	11.60	23.00	11.17	23.17	10.33	22.40	9.50	21.50
	100 feet	11.60	23.60	11.20	22.20	10.34	22.34	8.66	20.81	N/A	19.01
	200 feet	11.20	23.20	10.40	20.40	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: THIS CHART IS INTENDED FOR QUICK REFERENCE ONLY. ALL VOLTAGE DROPS SHOULD BE RE-CALCULATED BY USER TO VERIFY DATA.
THIS CHART IS BASED ON ESTIMATIONS UNDER NORMAL CONDITIONS.
THE ACTUAL VOLTAGE DROP MAY VARY DEPENDING ON CONDITIONS OF WIRE, CONDUIT USED, INSULATION AND AMBIENT ENVIRONMENTAL TEMPERATURE.

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