

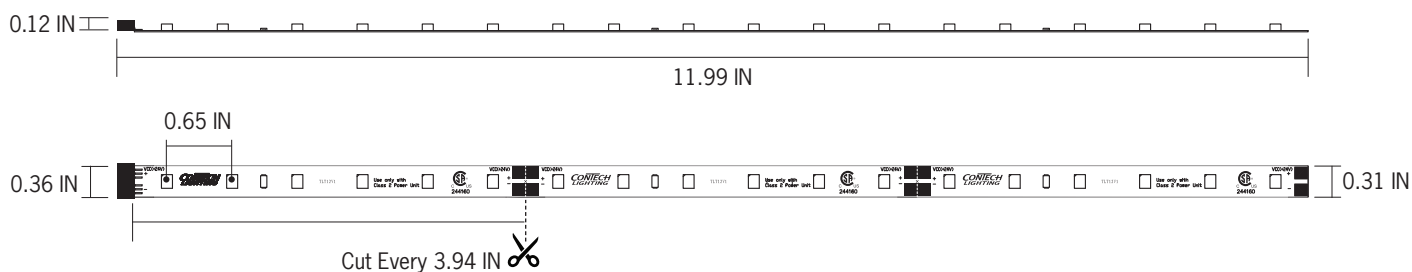
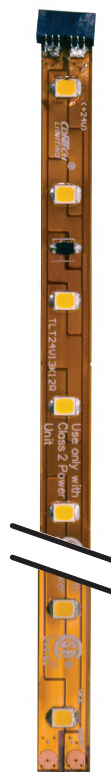
DATE

PROJECT

TYPE

# TLT24V1 | 24V Standard Output Performance LED Tapelight

WATTAGE	2.1W/Ft
LUMEN OUTPUT	248Lm/Ft (3000K)
LED DENSITY	18 LED/Ft (0.65" Spacing)
COLOR TEMPERATURE	2700K, 3000K, 3500K, 4000K
CRI	80+
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance
INPUT VOLTAGE	24V
DIMMING	Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
RUN LENGTH	32 Ft Max
AMBIENT OPERATING TEMP	-4° to 104°F (-20° to 40°C)
LISTING	cCSAus Certified to UL Standards Suitable for Dry or Damp Locations Not Suitable for Wet Locations Closet Rated
WARRANTY	Full replacement guarantee after date of purchase: - Five years when installed with mounting channel - Three years when installed without mounting channel



## Ordering Information

Example Order:

Tapelight Series	Output	Color Temp	Length/Quantity
TLT24V - 24VDC Performance LED Tapelight	1 - Standard Output	27K - 2700K	4 - 4 In Individual Segment
		3K - 3000K	12 - 12 In Individual Segment
		35K - 3500K	4R - 20 Ft Reel of 4 In Segments (60 Pieces Total, Actual Length 19.75 Ft)
		4K - 4000K	12R - 20 Ft Reel of 12 In Segments (20 Pieces Total, Actual Length 19.75 Ft)
			30CR - 30 Ft Continuous Reel (Actual Length 29.35 Ft)

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# TLT24V1 | 24V Standard Output Performance LED Tapelight

## Product Details

### Features

- Flexible, low voltage linear LED accent lighting system provides high quality illumination for many indoor applications
- Modular “plug and play” system, no need for field soldering
- Wide range of Power Supplies, Controllers, Connectors and Mounting Channels
- Available in:
  - Individual 4 inch and 12 inch segments with male and female connector ends
  - 20 Foot Reels of connected, individual 4 inch or 12 inch segments
  - 30 Foot Continuous Reels (no mid-connectors); one male and one female connector end
- TLT24V1 Series can be cut (on the cut lines) in 4 inch increments
- Easy to install using the 3M Double Sided Adhesive on each segment; tape can be directly mounted to most surfaces
- For additional thermal heatsinking, protection of the LEDs and an overall cleaner aesthetic, using the Aluminum Mounting Channel is recommended
- For added protection of the LEDs and subtle diffusion and glare control, a Clear or Frosted Lens may be used; Lens must be used with the Aluminum Mounting Channel and is easily installed

### Performance Summary

- High output LEDs provide excellent luminous intensities at low drive currents
- Low power consumption and consistent, stable performance
- Delivers 248 lumens at 2.1W per foot (delivered lumens based on 1foot of 3000K tape)
- Single run length up to 32 feet on one 96W power supply
- Dimmable using any of the TL Series Dimming Controls
- TLT24V1 Standard Output tapelight series is available in 2700K, 3000K, 3500K and 4000K
- Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
- System designed and rated for 50,000 hours at 70% lumen maintenance when mounted in ConTech Aluminum Mounting Channel
- cCSAus Certified to UL standards
- Suitable for dry or damp locations; not suitable for wet locations
- Closet Rated

### Warranty

- Covered by ConTech's full replacement guarantee after date of purchase:
  - Five (5) year replacement guarantee when tape light is installed using the Aluminum Mounting Channel
  - Three (3) year replacement guarantee when installed without the Aluminum Mounting Channel

## Run Lengths

TLT24V 24V POWER SUPPLY INPUT: 24V DC	TLT24V1 STANDARD OUTPUT (SO) 2.1W/FT	
	MAX RUN	MAX SPLIT
20W	7 FT	9 FT
36W	11 FT	16 FT
60W	18 FT	26 FT
90W	28 FT	40 FT
96W	32 FT	45 FT

- Max split can be split more than once, without exceeding the max single run in each leg.
- Max Run refers to the total single run of tapelight that can go on a power supply. Max Split refers to the total amount of tapelight that can go on a driver if it were separated into two runs.
- Max Run lengths are calculated with 12V or 24V DC at the start of the tape run. Voltage drop may occur if not using proper wire gauge. Please refer to the Voltage Drop and Wire Length Distance chart.
- Max Run lengths are calculated with no more than 30% light loss from the start of the tape run to the end of the tape run for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.
- Overall distance of LED tape under load [illuminated sections]. If exceeded damage to the power supply and LED tape may result.

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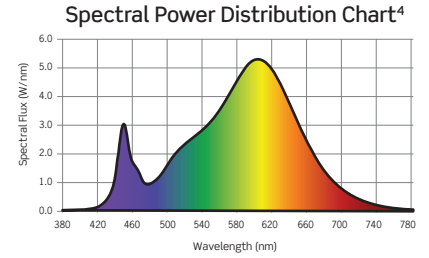
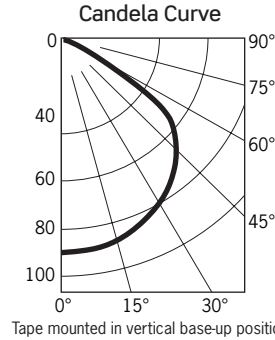
# TLT24V1 | 24V Standard Output Performance LED Tapelight

## Photometrics

### TLT24V13K12

Fixture Delivered Lumens: 247.91  
 Total Watts@120V: 6.74  
 Lumens Per Watt: 37.0  
 Center Beam Candle Power: 90.0  
 Beam Distribution: 116°  
 Spacing Criterion: 1.3  
 Color Rendering Index (CRI)<sup>1</sup>: 82  
 Color Temperature (CCT)<sup>2</sup>: 2971K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21010607  
 LM-79 Test No. S21022404

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
2'	22.5	5.9
4'	5.6	11.9
6'	2.5	17.8
8'	1.4	23.7
10'	0.9	29.6
12'	0.6	35.6

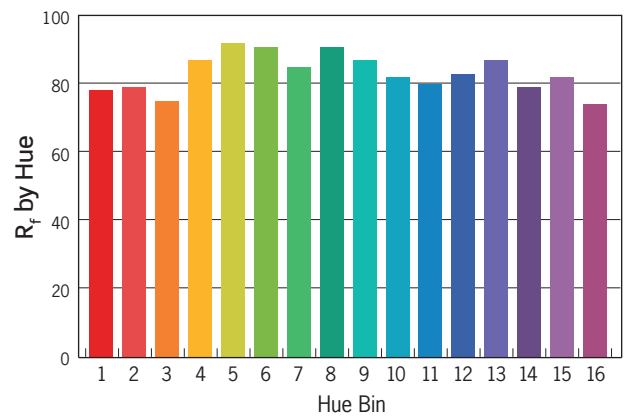
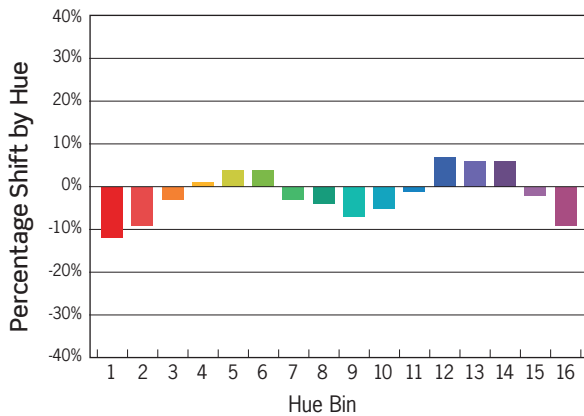
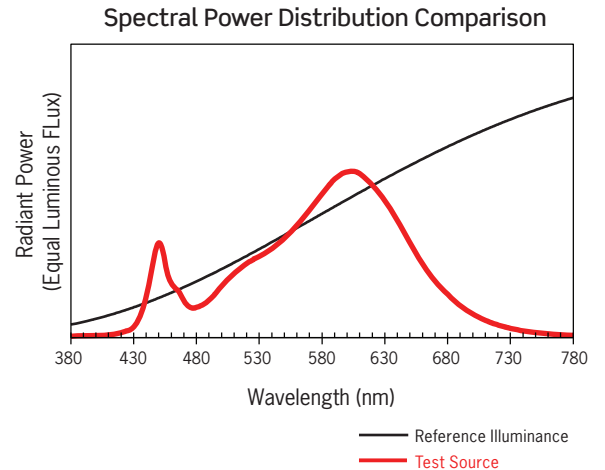
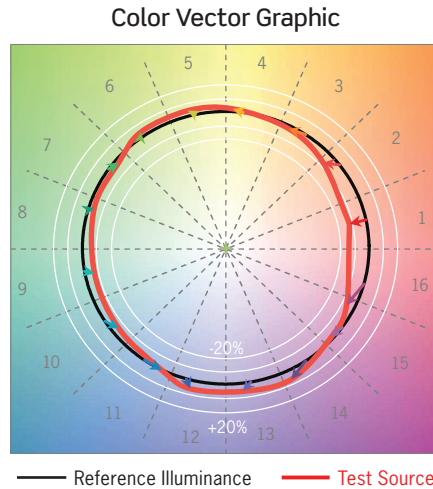


1. Accuracy of rendering colors 2. Color appearance of light source 3. Dependent on surrounding temperatures 4. Colors present within the light source

## TM-30 Data

ANSI/IES TM-30-18 Color Rendition Report Test No. S21022404

R <sub>f</sub>	84
R <sub>g</sub>	96
CCT(K)	2971K
D <sub>uv</sub>	-0.0010
u <sup>I</sup>	0.2520
v <sup>I</sup>	0.5205



Colors are for visual orientation purposes only

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# PERFORMANCE LED TAPELIGHT | 24V Power Supplies

## 24V Plug-In Power Supplies



### TLP24VP Series

#### Plug-and-Play Power Supply

120VAC/24VDC. Includes AC wall plug and female power output barrel plug for easy installation. Class 2 listed.

For use with 24V LED Tapelight.

#### Power Supply/Wattage

**TLP24VP36** - 36W

4-1/4" L x 2" W x 1-3/8" H

**TLP24VP60** - 60W

4-1/2" L x 2" W x 1-3/8" H

**TLP24VP96** - 96W

6-1/8" L x 2-3/8" W x 1-1/2" H

#### Quantity

## 24V Hardwire Power Supplies



### TLP24VHW Series

#### Hardwire Power Supply

120VAC/24VDC. Includes stripped and tinned wire pigtails on the input and output sides. MUST BE MAINTAINED WITHIN AN ENCLOSURE THAT MEETS LOCAL BUILDING CODES AND NEC (SUPPLIED BY OTHERS). 1 Ft Wire leads. Class 2 recognized.

For use with 24V LED Tapelight.



### TLP24VHW \* MV-ENC Series

#### Hardwire Class 2 Constant Voltage Driver

120 – 277VAC/24VDC Dimming and non-dimming Class 2 Constant Voltage LED Drivers. UL Listed enclosure with built-in junction boxes. No minimum load requirement. Auto-reset protection for short circuit and over-temperature. Over load protection in CC mode. 0–10V Dimming driver delivers smooth flicker free linear dimming down to 1% with most LEDs and a wide variety of compatible dimmers.

0–10V Driver dimming not recommended when using TW/RGB/RGBW controllers.

For use with 24V LED Tapelight.

#### TLP24VHW20

20W 24V 120VAC: 5-3/4" L x 1-1/2" W x 1-1/4" D

#### TLP24VHW60

60W 24V 120VAC: 6-1/3" L x 1-3/4" W x 1-1/4" D

#### TLP24VHW96

96W 24V 120VAC: 8-3/4" L x 2-2/3" W x 1-1/2" D

#### Quantity



### TLP24VHW \* -ENC Series

#### Hardwire Class 2 Enclosed Driver

120VAC/24VDC. Dimmable Class 2 listed driver. Compact self-enclosed driver with two (2) knockouts. Auto Reset and short circuit protection. Dimmable with standard MLV/Incandescent TRIAC (Leading Edge) dimmers; 8W Min. load required for smooth dimming.

TRIAC Driver dimming not recommended when using TW/RGB/RGBW controllers.

For use with 24V LED Tapelight.

#### TLP24VHW60MV-ENC

60W 24V 120-277VAC, Non-Dimming Driver

#### TLP24VHW60MVD2-ENC

60W 24V 120-277VAC, 0-10V Dimming Driver

#### TLP24VHW96MV-ENC

96W 24V 120-277VAC, Non-Dimming Driver

#### TLP24VHW96MVD2-ENC

96W 24V 120-277VAC, 0-10V Dimming Driver

#### Quantity

#### TLP24VHW20-ENC

20W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D

#### TLP24VHW60-ENC

60W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D

#### TLP24VHW96-ENC

96W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D

#### TLP24VHW96-ENC277V

96W 24V 277VAC: 10" L x 3" W x 3" D

#### Quantity



### L3D0 Series

#### Hardwire Hi-Lume Premier Driver

Enclosed Class 2 96W Constant Voltage Driver with dimming down to 0.1% with compatible controls. Universal 120 - 277VAC input. Output wattage range 25-96W.

For use with 24V LED Tapelight.

#### L3D0-96W24V-U

96W 24V 120-277VAC: 5.5" W x 2" H x 10.5" L

#### Quantity

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# PERFORMANCE LED TAPELIGHT | 12V & 24V Power Supply Accessories

## Plug-and-Play Power Connectors



### TLCEXT Series

*Plug-and-Play Power Supply Extension*

Includes male and female plug connectors.

Use with 12V or 24V Performance LED Tapelight

*Not compatible with 24V RGBW Performance LED Tapelight series*



### TLCIP Series

*Static Color Male Power Connector*

Includes one (1) male plug connector and one (1) male flex tape connector.

Use with 12V or 24V Static Color Performance LED Tapelight

TLCEXT24 - 24 IN

TLCEXT48 - 48 IN

Quantity

TLCEXT36 - 36 IN

TLCEXT96 - 96 IN

TLCIP12 - 12 IN

TLCIP19 - 19 IN

Quantity



### TLCS2

*Plug-and-Play 2-Way Splitter*

Includes one (1) male and two (2) female connectors. Approximately 2 Ft long.

Use with 12V or 24V Performance LED Tapelight

*Not compatible with 24V RGBW Performance LED Tapelight series*



### TLCOP12

*Static Color Female Power Connector*

12 In. connector includes one (1) male plug connector and one (1) female flex tape connector.

Use with 12V or 24V Static Color Performance LED Tapelight

TLCS2 - 12V/24V Plug-and-Play 2-Way Splitter

Quantity

TLCOP - 12 Inch 12V/24V Static Color Female Power Connector

Quantity



### TLCS3

*Plug-and-Play 3-Way Splitter*

Includes one (1) male and three (3) female connectors. Approximately 2 Ft long.

Use with 12V or 24V Performance LED Tapelight

*Not compatible with 24V RGBW Performance LED Tapelight series*


TLCS3 - 12V/24V Plug-and-Play 3-Way Splitter

Quantity


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# PERFORMANCE LED TAPELIGHT | 12V & 24V Power Supply Accessories

## Hardwire Power Connectors




**TLC CF**  
*Female Connector*  
6 Inch long connector includes a wire pigtail end and a female plug connector on the other end. Used to add plug and play female connector to hardwire power supplies.  
Use with 12V or 24V Performance LED Tapelight




**TLC IP \* HW Series**  
*Male Power Connector*  
Includes wire pigtail end and one (1) male flex tape connector.  
Use with 12V or 24V Performance LED Tapelight

TLC CF - 12V/24V Hardwire Female Connector Quantity

TLC IP12HW - 12 IN    TLC IP19HW - 19 IN    Quantity  
**TLC IP19HW-12AWG10FT**  
 19 IN Connector with Additional 10 Ft 12AWG Red & Black Wires  
**TLC IP19HW-12AWG20FT**  
 19 IN Connector with Additional 20 Ft 12AWG Red & Black Wires



**TLC CM**  
*Male Connector*  
6 Inch long connector includes a wire pigtail end and a male plug connector on the other end. Used for easy plug in connection to plug and play power supply and wire end can be connected to RGB controller at the screw terminals.  
Use with 12V or 24V Performance LED Tapelight




**TLC OP12HW**  
*Female Power Connector*  
12 In. connector includes wire pigtail end and one (1) female flex tape connector.  
Use with 12V or 24V Performance LED Tapelight


TLC CM - 12V/24V Hardwire Male Connector Quantity

TLC OPHW - 12 IN 12V/24V Hardwire Female Power Connector Quantity

## Linear Connectors




**TLC M Series**  
*Bridge Connector*  
Blank section used to bridge gaps where LEDs are not necessary.  
Use with 12V or 24V Performance LED Tapelight



**TLC X**  
*Cross Connector*  
Used to connect up to four (4) TLT segments. May be cut to create 2-way "L" connection or 3-way "T" connection.  
Use with 12V or 24V Performance LED Tapelight

TLC M2 - 2 IN    TLC M6 - 6 IN    Quantity  
 TLC M12 - 12 IN

TLC X - 12V/24V Cross Connector Quantity



**TLC FF**  
*Short Female-to-Female Connector*  
Used to connect male tapelight ends (when tapelight is cut two male ends remain)  
Use with 12V or 24V Performance LED Tapelight

TLC FF - 12V/24V Short Female-to-Female Connector Quantity



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# PERFORMANCE LED TAPELIGHT | 12V & 24V TLT Series Static Color Controllers



**TLPRTW**  
**4-Channel Power Repeater**  
 Enables synchronized control of multiple runs from one controller.  
 5-5/16" L x 1-3/4" W x 1-1/8" D  
 Use with 12V or 24V Static Color, TW, RGB or RGBW Performance LED Tapelight

TLPRTW - 12V/24V LED 4-Channel Power Repeater

Quantity



**TLPRGBRF**  
**Dimming Controller with RF Remote Control**  
 Pre-programmed functions include: color strobe, 3-channel color change and gradual brightness change. Includes two (2) programmable presets. Use with non-dimming tapelight power supplies. Not rated for outdoor use.  
 8-3/8" L x 1-5/8" W x 1-3/16" D  
 Use with 12V or 24V Performance LED Tapelight

TLPRGBRF - 12V/24V Dimming Controller with RF Remote Control

Quantity



**TLPINT**  
**DMX 512 CV Decoder**  
 Designed to convert universal DMX 512 signal to PWM signal when used with a DMX 512 console (by others). Use with non-dimming tapelight power supplies. Not UL listed for outdoor use.  
 6-3/16" L x 3-1/8" W x 1-5/8" D  
 Use with 12V or 24V Static Color, TW, RGB or RGBW Performance LED Tapelight

TLPINT - 12V/24V DMX 512 CV Decoder

Quantity

## IR Controllers



**TLPICB**  
**IR Cabinet Switch**  
 Allows on/off switching functionality for use with cabinet doors. 36W Max.  
 1-1/2" L x 1-3/16" W x 5/16" H  
 Use with 12V or 24V Performance LED Tapelight

TLPICB - 12V/24V IR Cabinet Switch

Quantity



**TLPDIM10V**  
**Static Color 0-10V Dimming Module**  
 For use with standard 0-10V dimmers. Dimming down to 15%. Not UL listed for outdoor use. Use with non-dimming tapelight power supplies.  
 4-3/4" L x 1-1/2" W x 1-1/2" D  
 For use with 12V or 24V Static Color Performance LED Tapelight  
*Not compatible with 12V or 24V TW, RGB or RGBW Performance LED Tapelight*

TLPDIM10V - 12V/24V Static Color 0-10V Dimming Module

Quantity



**TLPWIWV**  
**IR Wireless Waving Switch**  
 Allows wireless on/off switching functionality by waving an object within the IR field. 36W Max.  
 1-1/2" L x 1-3/16" W x 5/16" H  
 Use with 12V or 24V Performance LED Tapelight

TLPWIWV - 12V/24V IR Wireless Waving Switch

Quantity



**TLPIDM**  
**Tapelight Touch Dimmer**  
 Allows adjustment of the brightness of the LEDs by touching the controller housing. 36W Max.  
 1-1/2" L x 1-3/16" W x 5/16" H  
 Use with 12V or 24V Performance LED Tapelight  
*Not compatible with TW, RGB or RGBW Performance LED Tapelight*

TLPIDM - 12V/24V Tapelight Touch Dimmer

Quantity

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# PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

## Product Details

### Aluminum Mounting Channel

- Provides excellent heat sinking and protection to the LEDs while ensuring a clean, straight run
- 6 Ft long, Silver or Black Aluminum
- Outdoor/Wet listed Performance LED Tapelight is not compatible with channel end caps or diffusion lenses, except when using the Deep Standard Channel

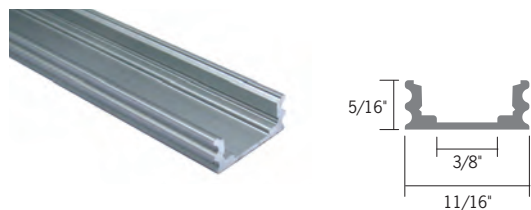
### Channel Mounting Clips

- Four (4) Mounting clips and four (4) Philips head screws per package
- 24 Inches between clips recommended for most applications
- Stainless Steel

### Channel End Caps

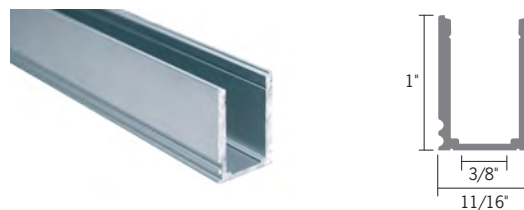
- Creates a clean finish to the mounting channel
- Two (2) end caps: one open, one closed
- ABS Plastic

## Standard and Deep Mounting Channels



**TLACS6** - 6 Ft Standard Channel, Aluminum  
**TLACS6-B** - 6 Ft Standard Channel, Black

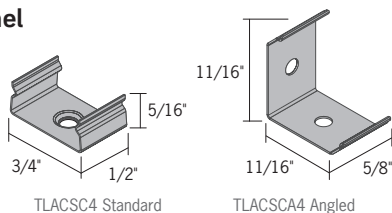
Quantity



**TLAC8T6** - 6 Ft Deep Standard Channel, Aluminum  
**TLAC8T6-B** - 6 Ft Deep Standard Channel, Black

Quantity

## Standard and Deep Channel Mounting Clips



**TLACSC4** - Four Standard Channel Mounting Clips  
**TLACSCA4** - Four Standard Channel Angled Mounting Clips

Quantity

## Standard and Deep Channel End Caps



**TLACSE2** - Two Standard Channel End Caps, Grey  
**TLACSE2-B** - Two Standard Channel End Caps, Black  
**TLAC8TE2** - Two Deep Channel End Caps, Grey  
**TLAC8TE2-B** - Two Deep Channel End Caps, Black

Quantity



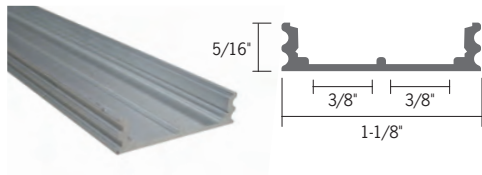
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# PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

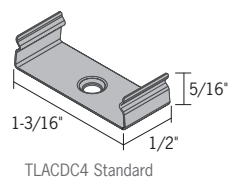
## Double Wide Mounting Channel



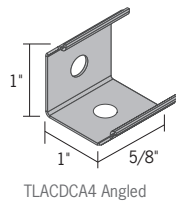
**TLACD6** - 6 Ft Double Wide Channel, Aluminum  
**TLACD6-B** - 6 Ft Double Wide Channel, Black

Quantity

### Double Wide Channel Mounting Clips



TLACDC4 Standard



TLACDCA4 Angled

### Double Wide Channel End Caps



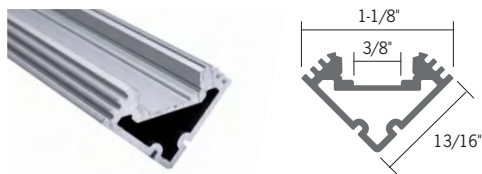
**TLACDC4** - Four Double Wide Standard Mounting Clips  
**TLACDCA4** - Four Double Wide Angled Mounting Clips

Quantity

**TLACDE2** - Two Double Wide End Caps, Grey  
**TLACDE2-B** - Two Double Wide End Caps, Black

Quantity

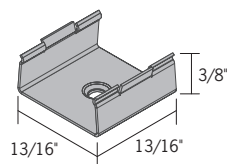
## 45° Angled Mounting Channel



**TLACA6** - 6 Ft 45° Angled Channel, Aluminum  
**TLACA6-B** - 6 Ft 45° Angled Channel, Black

Quantity

### 45° Angled Channel Mounting Clips



TLACAC4

### 45° Angled Channel End Caps



**TLACAC4** - Four Angled Channel Mounting Clips

Quantity

**TLACAE2** - Two Angled Channel End Caps, Grey  
**TLACAE2-B** - Two Angled Channel End Caps, Black

Quantity

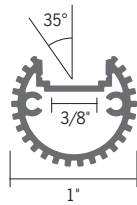
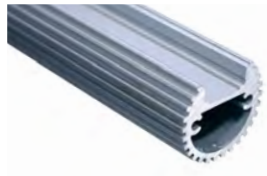
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# PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

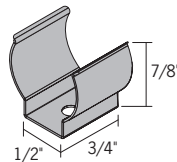
## Round Mounting Channel



**TLAC06** - 6 Ft Round Channel, Aluminum  
**TLAC06-B** - 6 Ft Round Channel, Black

Quantity

### Round Channel Mounting Clips



### Round Channel End Caps



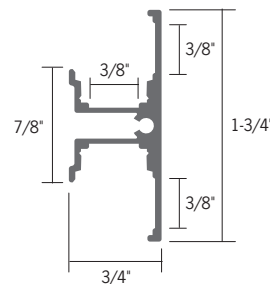
**TLACOC4** - Four Round Mounting Clips

Quantity

**TLACOE2** - Two Round End Caps, Grey  
**TLACOE2-B** - Two Round End Caps, Black

Quantity

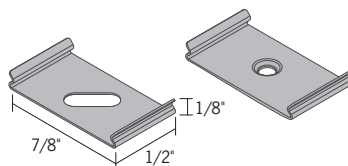
## Wall Mount "T" Mounting Channel



**TLACT6** - 6 Ft Wall Mount "T" Channel, Aluminum  
**TLACT6-B** - 6 Ft Wall Mount "T" Channel, Black  
**TLACT6-P** - 6 Ft Wall Mount "T" Channel, White

Quantity

### Wall Mount "T" Channel Mounting Clips



### Wall Mount "T" Channel End Caps



**TLACTC4** - Four Wall Mount "T" Channel Mounting Clips

Quantity

**TLACTE2** - Two Wall Mount "T" End Caps, Grey  
**TLACTE2-B** - Two Wall Mount "T" End Caps, Black  
**TLACTE2-P** - Two Wall Mount "T" End Caps, White

Quantity

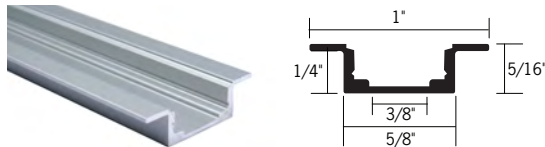
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# PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

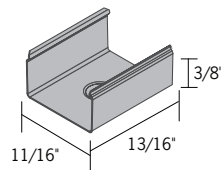
## Recessed Mounting Channel



**TLACR6** - 6 Ft Recessed Mounting Channel, Aluminum  
**TLACR6-B** - 6 Ft Recessed Mounting Channel, Black

Quantity

### Recessed Channel Mounting Clips



**TLACRC4** - Four Recessed Mounting Clips

Quantity

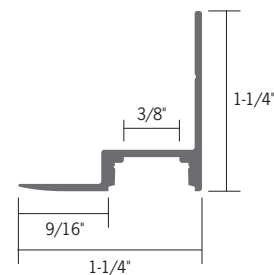
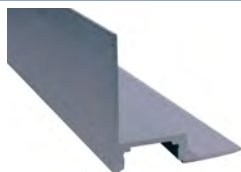
### Recessed Channel End Caps



**TLACRE2** - Two Recessed End Caps, Grey  
**TLACRE2-B** - Two Recessed End Caps, Black

Quantity

## Ceiling Edge Mounting Channel



**TLACE6** - 6 Ft Ceiling Edge Channel, Aluminum  
**TLACE6-B** - 6 Ft Ceiling Edge Channel, Black  
**TLACE6-P** - 6 Ft Ceiling Edge Channel, White

Quantity

### Ceiling Edge Channel Mounting Clips

Mounting clips are not available for the Ceiling Edge Mount Mounting Channel  
 Mount the channel by drilling holes through channel and mounting surface and screwing into place

### Ceiling Edge Channel End Caps

End caps are not available for the Ceiling Edge Mount Mounting Channel

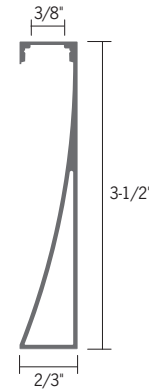
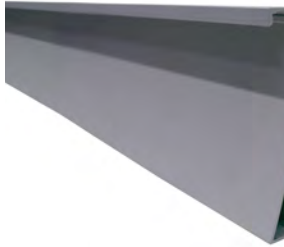
DATE

PROJECT

TYPE

# PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

## Toe Kick Mounting Channel



- TLACK6** - 6' Toe Kick Channel, Aluminum
- TLACK6-B** - 6' Toe Kick Channel, Black
- TLACK6-P** - 6' Toe Kick Channel, White

Quantity

### Toe Kick Channel Mounting Clips

Mounting clips are not available for the Toe Kick Mounting Channel  
Mount the channel by using construction adhesive or 3M™ VHB™ tape

### Toe Kick Channel End Caps



- TLACKE2** - Toe Kick End Caps, Grey
- TLACKE2-B** - Toe Kick End Caps, Black
- TLACKE2-P** - Toe Kick End Caps, White

Quantity

## Diffusion Lenses



- Use with mounting channels
- Provides extra protection for the LEDs as well as diffusion to reduce glare

- TLALC6** - 6 Ft Clear Lens
- TLALF6** - 6 Ft Frosted Lens
- TLALCD6** - 6 Ft Double Wide Clear Lens
- TLALFD6** - 6 Ft Double Wide Frosted Lens

Quantity

