TLS12V2 | 12V High Output Side Emitting Performance LED Tapelight

WATTAGE	1.4W/Ft
LUMEN OUTPUT	122Lm/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	12V
DIMMING	Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
RUN LENGTH	22 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
WARRANTY	Full three (3) year replacement guarantee after date of purchase

0.12 IN

11.99 IN

0.65 IN

0.36 IN

12V GND   12V GND   Use only with Class 2 Power Unit   12V GND   12V GND   Use only with Class 2 Power Unit   12V GND

CONTECH LIGHTING   TLS12V23K12R   244160

0.31 IN

Cut Every 1.97 IN ✂
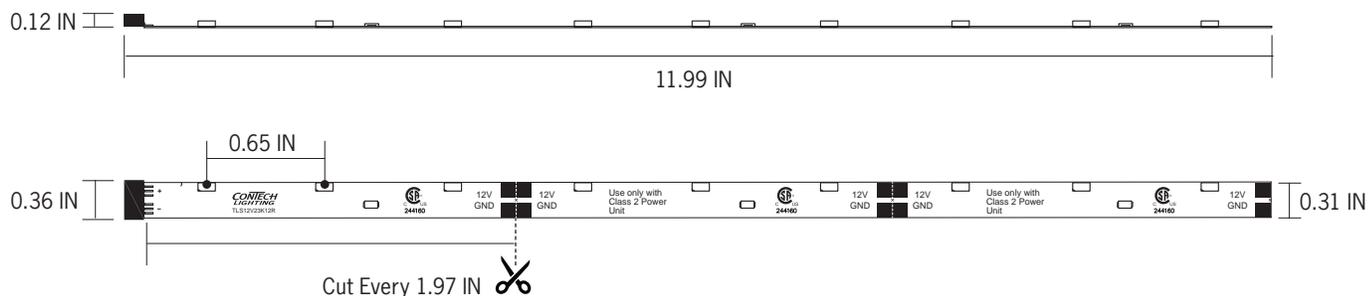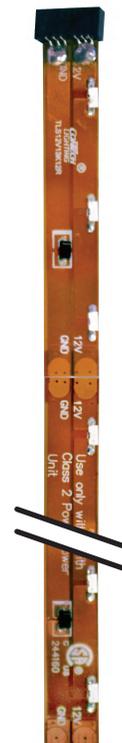
Ordering Information

Example Order: TLS12V23K12R

Tapelight Series	Output	Color Temp	Length/Quantity
TLS12V - 12VDC Side Emitting Performance LED Tapelight	**2** - High Output	**27K** - 2700K **3K** - 3000K **35K** - 3500K **4K** - 4000K	**12** - 12 In Individual Segment **12R** - 20 Ft Reel of 12 In Segments (20 Pieces Total, Actual Length 19.75 Ft)

TLS12V2 | 12V High Output Side Emitting 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
- Available in:
  – Individual 12 inch segments with male and female connector ends
  – 20 Foot Reels of connected, individual 12 inch segments
- TLS12V2 Series can be cut (on the cut lines) in 2 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

Performance Summary

- Side Emitting Performance LED Tapelight provides one directional light in a low profile
- High output LEDs provide excellent luminous intensities at low drive currents
- Low power consumption and consistent, stable performance
- Delivers 122 lumens at 1.4W per foot (delivered lumens based on 1 foot of 3000K tape)
- Single run length up to 22 feet on one 60W power supply
- TLS12V2 High Output Performance LED 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

Warranty

- Covered by ConTech's full Three (3) year replacement guarantee after date of purchase

Run Lengths

TLP12V 12V POWER SUPPLY INPUT: 12V DC	TLS12V2 HIGH OUTPUT (HO) SIDE EMITTING 1.4W/FT	
WATTAGE	MAX RUN	MAX SPLIT
20W	14 FT	14 FT
24W	17 FT	17 FT
36W	22 FT	26 FT
50W	22 FT	34 FT
60W	22 FT	40 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.*

PERFORMANCE LED TAPELIGHT | 12V Power Supplies

12V Plug-In Power Supplies

TLP12VP24

12V/24W Plug-and-Play Power Supply
120VAC/12VDC. Includes AC wall plug and female power output barrel plug for easy installation.
3-1/4" L x 1-3/4" W x 1-1/4" D
System length: 6'
Use with 12V Performance LED Tapelight

TLP12VP24	-	12V/24W Plug-and-Play Power Supply	Quantity

TLP12VP Series

12V Plug-and-Play Power Supplies
120VAC/12VDC. Includes AC wall plug and female power output plug for easy installation.
4" L x 2" W x 1-1/4" D
Use with 12V Performance LED Tapelight

Power Supply/Wattage	Quantity
TLP12VP36 - 36W, System Length 10'	
TLP12VP60 - 60W, System Length 12'	

12V Hardwire Power Supplies

TLP12VHW Series

Hardwire Power Supply
120VAC/12VDC. 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). 2' Wire leads. Class 2 recognized.
Use with 12V Performance LED Tapelight

TLP12VHW20	Quantity
20W 12V 120VAC: 4-3/4" L x 1-3/16" W x 1" D	
TLP12VHW60	
60W 12V 120VAC: 6-1/2" L x 1-3/4" W x 1-1/4" D	

TLP12VHW * MV-ENC Series

Hardwire Class 2 Constant Voltage Driver
120 – 277VAC/12VDC 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. Suitable for both indoor and outdoor installations.
Use with 12V Performance LED Tapelight

TLP12VHW50MV-ENC	Quantity
50W 12V 120-277VAC, Non-Dimming Driver	
TLP12VHW50MVD2-ENC	
50W 12V 120-277VAC, 0-10V Dimming Driver	

TLP12VHW * -ENC Series

Hardwire Class 2 Enclosed Driver
120VAC/12VDC. 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.
6-3/4" L x 2-5/8" W x 1-1/4" D
Use with 12V Performance LED Tapelight, not to be used with RGB tapelight series.

TLP12VHW20-ENC	-	20W 12V 120VAC	Quantity
TLP12VHW60-ENC	-	60W 12V 120VAC	

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

		Quantity
TLCEXT24 - 24 IN	**TLCEXT48** - 48 IN	
TLCEXT36 - 36 IN	**TLCEXT96** - 96 IN	

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

		Quantity
TLCIP12 - 12 IN	**TLCIP19** - 19 IN	

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

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

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

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

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

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

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

Hardwire Power Connectors

TLCCF
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

	Quantity
TLCCF - 12V/24V Hardwire Female Connector	

TLCCM
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

	Quantity
TLCCM - 12V/24V Hardwire Male Connector	

TLCIP * HW Series
Male Power Connector

Includes wire pigtail end and one (1) male flex tape connector.
Use with 12V or 24V Performance LED Tapelight

	Quantity
TLCIP12HW - 12 IN **TLCIP19HW** - 19 IN	
TLCIP19HW-12AWG10FT 19 IN Connector with Additional 10 Ft 12AWG Red & Black Wires	
TLCIP19HW-12AWG20FT 19 IN Connector with Additional 20 Ft 12AWG Red & Black Wires	

TLCOP12HW
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

	Quantity
TLCOPHW - 12 IN 12V/24V Hardwire Female Power Connector	

Linear Connectors

TLCM Series
Bridge Connector

Blank section used to bridge gaps where LEDs are not necessary.
Use with 12V or 24V Performance LED Tapelight

	Quantity
TLCM2 - 2 IN **TLCM6** - 6 IN	
TLCM12 - 12 IN	

TLCX
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

	Quantity
TLCX - 12V/24V Cross Connector	

TLCFF
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

	Quantity
TLCFF - 12V/24V Short Female-to-Female Connector	

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

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

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   Quantity
                with RF Remote Control

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   Quantity
                0-10V Dimming Module

IR CONTROLLERS

TLPICB
IR Cabinet Switch
Allows on/off switching functionality for use with cabinet doors.
12V Tape: 36W Max.; 24V Tape: 72W Max.
1-1/2" L x 1-3/16" W x 5/16" H
Use with 12V or 24V Performance LED Tapelight

TLPIWV
IR Wireless Waving Switch
Allows wireless on/off switching functionality by waving an object within the IR field.
12V Tape: 36W Max.; 24V Tape: 72W Max.
1-1/2" L x 1-3/16" W x 5/16" H
Use with 12V or 24V Performance LED Tapelight

TLPIDM
Tapelight Touch Dimmer
Allows adjustment of the brightness of the LEDs by touching the controller housing.
12V Tape: 36W Max.; 24V Tape: 72W 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

TLPICB - 12V/24V   Quantity
            IR Cabinet Switch

TLPIWV - 12V/24V IR Wireless   Quantity
            Waving Switch

TLPIDM - 12V/24V Tapelight   Quantity
            Touch Dimmer

PERFORMANCE LED TAPELIGHT | TLS Tapelight Series Side Emitting 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

Channel Mounting Clips
- Different mounting methods may be used for installing side emitting tapelight channel

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

## Straight Mounting Channel

1"

3/8"
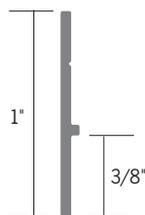
Straight Channel Mounting Clips

Mounting clips are not availalble for the Straight Mounting Channel

Mount the channel by drilling holes through channel along the guideline and screwing into place

Straight Channel End Caps

End caps are not availalble for the Straight Mounting Channel

TLACSS6 - 6 Ft Straight Channel, Aluminum   Quantity

"L" Mounting Channel

1/2"

5/8"

3/8"

1/8"
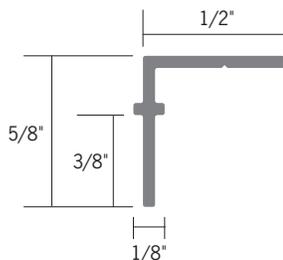
"L" Channel Mounting Clips

Mounting clips are not availalble for the "L" Mounting Channel

Mount the channel by drilling holes through channel along the guideline and screwing into place

"L" Channel End Caps

End caps are not availalble for the "L" Mounting Channel

TLACL6 - 6 Ft "L" Channel, Aluminum   Quantity

PERFORMANCE LED TAPELIGHT | TLS Tapelight Series Side Emitting Mounting Channels and Accessories

Wall Mount Channel

1.13"

0.40"
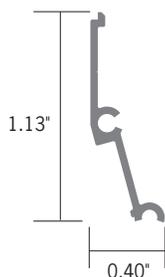
Wall Mount Channel Mounting Clips

Mounting clips are not availalble for the Wall Mount Channel

Mount the channel by drilling holes through channel along the guideline and screwing into place

TLACSW6 - 6 Ft Wall Mount Channel, Aluminum
TLACSW6-B - 6 Ft Wall Mount Channel, Black

Quantity

Wall Mount Channel Cover, End Caps and Accessories

See TLACSW Specification Sheet for additional details

Wall Mount Channel Cover

0.49"

1.22"
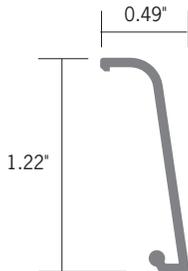
TLACSWCVR6-P - 6 Ft Wall Mount Channel Cover, White
TLACSWCVR6-B - 6 Ft Wall Mount Channel Cover, Black

Quantity

Wall Mount Channel
TLACSW6

Channel Cover
TLACSWCVR6

WALL

TLS Side Emitting
Tapelight Series
(Sold Separately)

TLACSWE-IN Series
Wall Mount Channel Inside Corner Caps
Set of two (2)
1.18"W x 1.18"L x 1.29"H

TLACSWE-IN-P - Inside Corner Caps, White
TLACSWE-IN-B - Inside Corner Caps, Black

Quantity

TLACSWE-OUT Series
Wall Mount Channel Outside Corner Caps
Set of two (2)
1.72"W x 1.72"L x 1.29"H

TLACSWE-OUT-P - Outside Corner Caps, White
TLACSWE-OUT-B - Outside Corner Caps, Black

Quantity

TLACSWE Series
Wall Mount Channel End Caps
Set of two (2): one left, one right
0.54"W x 1.81"L x 1.29"H

TLACSWE-P - Two End Caps, White
**TLACSWE-B** - Two End Caps, Black

Quantity

TLS12V2 | 12V High Output Side Emitting Performance LED Tapelight

Photometrics

TLS12V13K12

Fixture Delivered Lumens: 103
Total Watts@120V: 1.76
Lumens Per Watt: 58.5
Center Beam Candle Power: 13
Beam Distribution: 109°
Test Distance: 20 Ft.
Color Rendering Index (CRI)[1]: 80
Color Temperature (CCT)[2]: 3066K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. 87094
LM-79 Test No. 87094

Candela Curve
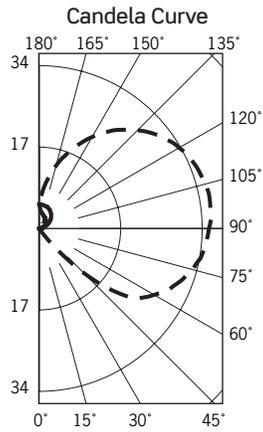
Tape mounted aimed at the horizon

Spectral Power Distribution Chart[4]
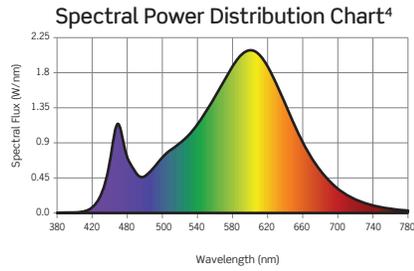
1. Accuracy of rendering colors 2. Color appearance of light source 3. Dependent on surrounding temperatures 4. Colors present within the light source