



# DL-FLEX2-DTW-3018

LED FLEXIBLE LINEAR  
DIM TO WARM LED TAPE

Type	
Project	
Catalog No.	



## DESCRIPTION

JESCO Lighting's Dim-to-Warm LED strip smoothly mimics the dimming curve of an incandescent lamp as it is dimmed. At full brightness, the LED strip has a CCT of 3000K. As the strip is dimmed, the color changes to a warmer tone, reaching as low as a CCT of 1800K. Simple wiring using only a JESCO 0-10V dimmable driver and a compatible dimmer - the intelligent circuit design eliminates the need for any additional controllers. The LED strip is field-cutable every ~2" for shorter runs. Cut ends can be linked with connectors (sold separately). Made of highly flexible material that can be applied to most surfaces categorized as having high surface energy using pre-attached 3M™ double sided tape.

## FEATURES

- Smoothly mimics the dimming curve of an incandescent lamp
- 3000K at full brightness - dims down to 1800K
- A very high LED density - 72 LEDs/ft - eliminating hotspots in most scenarios
- Dims down to 15% with JESCO 0-10V dimmable drivers
- 3-Step MacAdam LED binning for uniformity in both color and intensity
- Precise sizing - field-cutable every ~2 inches
- Low-profile and flexible
- Cut ends can be linked with connectors. No soldering required.
- 3oz. Printed Circuit Board thickness for optimal thermal management, mitigating voltage drop as length increases
- Easy installation with 3M® adhesive tape
- Large variety of channel and lens options available
- Plug and Play and Hardwire options available
- No ultra violet (UV/IR) radiation, no mercury

## SPECIFICATIONS

Beam Angle	120°
Input Voltage	24V DC
Wattage	5.30 W/ft
Lumens	302 lm @ 3000K 40 lm @1800K
CRI	90+ (R9>90)
CCT	3000K to 1800K
Dimensions	7/16"W x 1/16"H
LEDs/ft	72
Ambient Operating Temperature *	-4°F to 104°F
Max Run †	16.4 ft
Min Run †	~2" (50mm)
Lamp Life	50,000 hours
Environment	Indoor - Dry
Certifications	
Warranty	5 Years – see published warranty terms for detailed information.

## APPLICATIONS

- Cove, soffit, and accent lighting
- Under-shelf and under-cabinet lighting
- Path, contour, and edge lighting

\* Exceeding the ambient operating temperature values may damage the LEDs by reducing the lifespan, lumen output, adversely impact color consistency, and void the warranty. It is recommended adequate airflow and heat sinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure.

† Single runs can not exceed max run lengths. Cuts can only be made on the cutting mark. Cut pieces cannot be joined.

**NOTE:** Use of an aluminum channel is recommended

## ORDERING INFORMATION

<b>SERIES</b>	-	<b>MODEL</b>	-	<b>CCT RANGE</b>
DL-FLEX2	-	DTW – Dim-to-Warm	-	3018 – 3000K to 1800K

Specify required amount of 1 ft lengths before the ordering number.

**Example :** (12) DL-FLEX2-DTW-3018

**NOTE:** Use of an aluminum channel is recommended



www.jescolighting.com  
support@jescolighting.com  
Tech Support: 855.592.0029

15 Harbor Park Drive  
Port Washington, NY 11050  
Main Line: 800.527.7796  
Fax Line: 855.265.5768

219 South 6<sup>th</sup> Ave  
City of Industry, CA 91746  
Main Line: 855.654.0110  
Fax Line: 626.333.2955

8/7/2020

Specifications subject to change without notice.

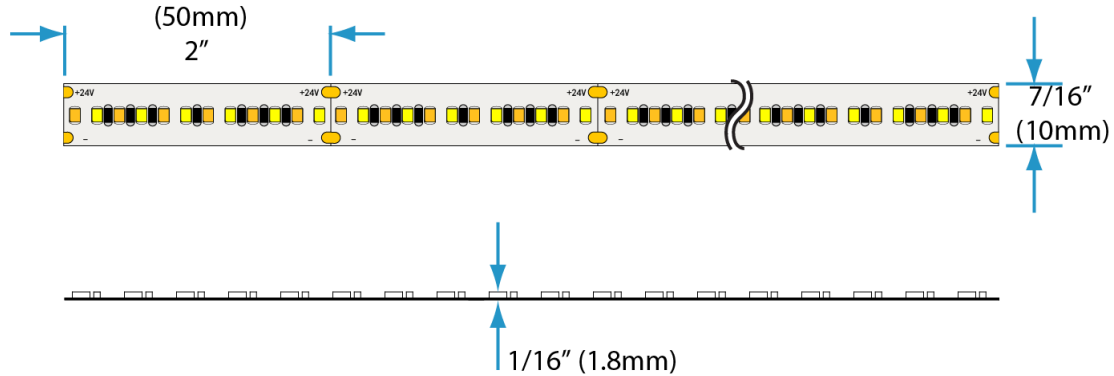


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## DIMENSIONS

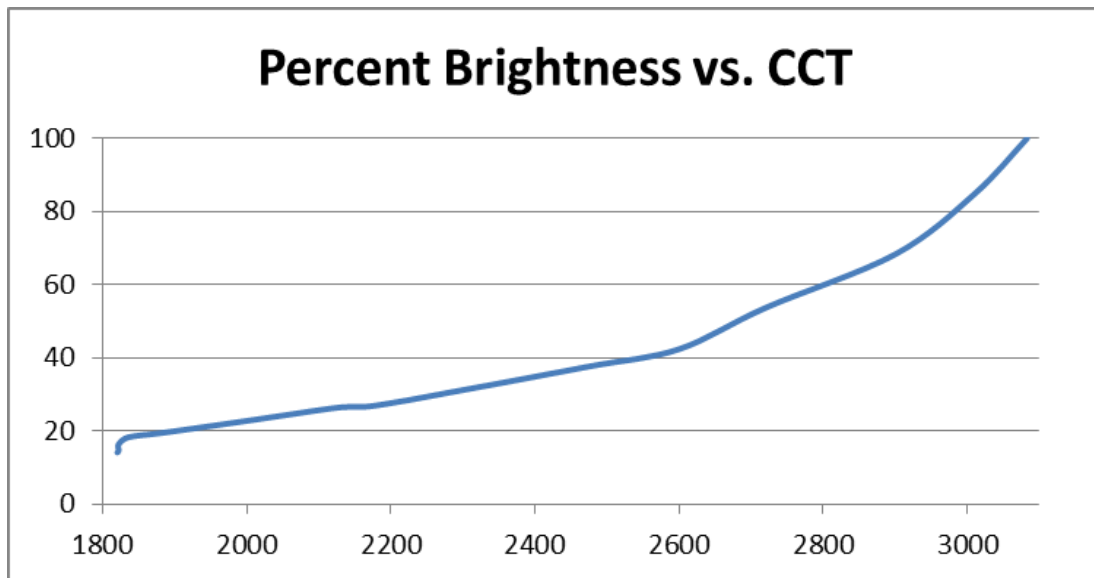


## POWER SUPPLIES

24V Hardwire 0-10V Dimmable Power Supplies in Junction Box  
UL Listed, Indoor/Outdoor Rated

Model Number	Wattage
DL-PS-30/24-JB-OD-DIM	30W
DL-PS-60/24-JB-OD-DIM	60W
DL-PS-96/24-JB-OD-DIM	96W

## DIMMING CURVE





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## WIRING ACCESSORIES WITH TERMINAL BLOCKS

	<p><b>DL-FLEX2-TB10-PC-PP</b></p> <p>Plug and Play power cord. Connects Plug and Play equipment to LED strip. <i>Can only be connected to ends cut along the cutting mark*</i> 12" cable length.</p>		<p><b>DL-FLEX2-TB10-PC-HW</b></p> <p>Hardwire power cord. Connects hard-wire equipment to LED strip. <i>Can only be connected to ends cut along the cutting mark*</i> 12" cable length.</p>
	<p><b>DL-FLEX2-TB10-CC12</b></p> <p>Connecting cable with 12" wire. Connects cut ends of 2 LED strips. Check for correct polarity before closing connector. <i>Can only be connected to ends cut along the cutting mark*</i></p>		

## WIRING ACCESSORIES WITH CLAMPS

	<p><b>DL-FLEX2-CLAMP-PC-HW-10B</b></p> <p>Hardwire power cord. Connects hard-wire equipment to LED strip. Check for correct polarity before closing connector. <i>Can only be connected to ends cut along the cutting mark*</i> 12" cable length.</p>		<p><b>DL-FLEX2-CLAMP-CC3-10B</b></p> <p>Connecting cable with 3" wire. Connects cut ends of 2 LED strips. Check for correct polarity before closing connector. <i>Can only be connected to ends cut along the cutting mark*</i></p>
	<p><b>DL-FLEX2-CLAMP-CC6-10B</b></p> <p>Connecting cable with 6" wire. Connects cut ends of 2 LED strips. Check for correct polarity before closing connector. <i>Can only be connected to ends cut along the cutting mark*</i></p>		<p><b>DL-FLEX2-CLAMP-CC12-10B</b></p> <p>Connecting cable with 12" wire. Connects cut ends of 2 LED strips. Check for correct polarity before closing connector. <i>Can only be connected to ends cut along the cutting mark*</i></p>

## CLAMP CONNECTORS

	<p><b>DL-FLEX2-CLAMP-WT10B</b></p> <p>Wire to Tape Connector for 10mm wide PCB Quick Splice action, insert unstripped wire (wire not provided). <i>Can only be connected to ends cut along the cutting mark.</i></p> <p>Use 18-22AWG cable with outer diameter of <math>\varnothing</math>1.5mm to <math>\varnothing</math> 2.1mm</p> <p>Max. operating current: 5A Ambient temp. range: 68°F to 122°F Dims: 5/8" (14.6mm) W x 1" (24.5mm) L x 3/8" (8mm) H</p>		<p><b>DL-FLEX2-CLAMP-TT10B</b></p> <p>Tape to Tape Connector for 10mm wide PCB Connects cut ends where indicated by a cutting mark of LED strip.</p> <p>Max. operating current: 5A Ambient temp. range: 68°F to 122°F Dims: 5/8" (14.6mm) W x 7/8" (19.5mm) L x 3/8" (8mm) H</p>
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\*Avoid cutting on soldered joints. Segments starting with solder joint will not work with connector.

**NOTE:** All dimensions are nominal



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## COMPATIBLE DIMMERS FOR DL-PS-XX/24-JB-OD-DIM POWER SUPPLIES

**LUTRON:**  
Lutron Diva - DDTV  
Lutron Diva - NFTV  
Lutron Nova T - NTFTV

**LEVITON:**  
Leviton Illumatech - IP7

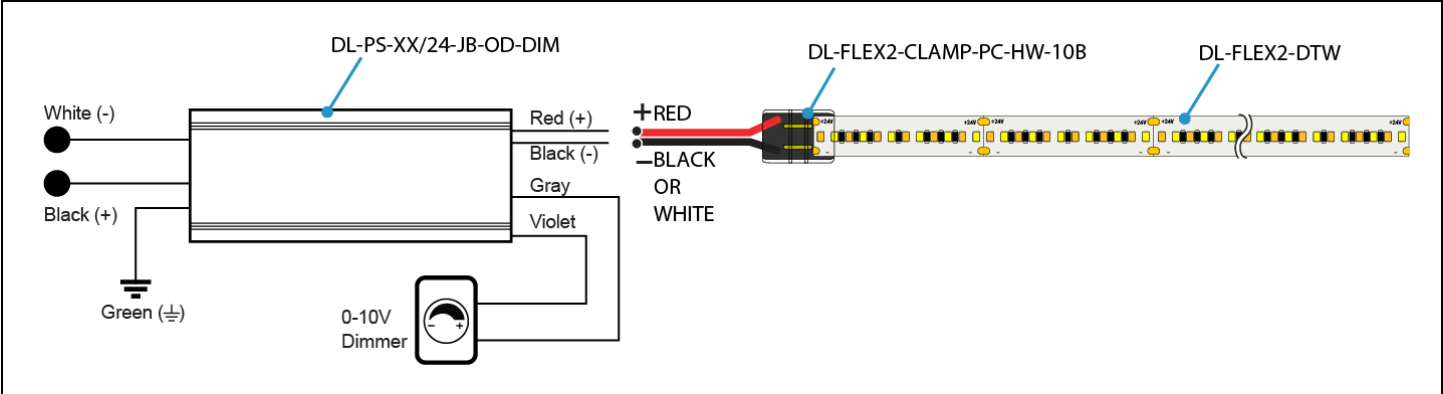
**WATT STOPPER:**  
Watt Stopper DCLV1

**Lightolier Controls:**  
Lightolier Controls ZP600FAM120

**Philips:**  
Philips Sunrise - SR1200ZTUNV

## WIRING DIAGRAMS

**Dimming Option – 0-10V (Using our DL-PS-XX/24-JB-OD-DIM drivers).**





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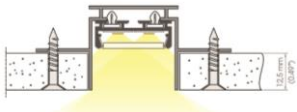
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## CHANNEL FEATURE MATRIX

	ROUGH-IN				MEDIUM DEPTH PROFILE					SMALL DEPTH PROFILE					BASIC		
	CH-RI-11	CH-RI-12	CH-RI-13	CH-RI-14	CH-ME-21	CH-ME-22	CH-ME-23	CH-ME-24	CH-ME-25	CH-SM-31	CH-SM-32	CH-SM-33	CH-SM-34	CH-SM-35	DL-FLEX-CH6	DL-FLEX-CH6-B	DL-FLEX-OD-CH6
DL-FLEX2-DTW-3018	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DL-FLEX2-DTW-3018 w/ connectors	●	●	●	●													
Surface Mounting			C	C/E	D		D	D	D	D		D		D	D	D	D
45° Mounting								●						●			
Recessed – For Miter Grooves					F	G				F	G	F	G				
Rough-in – For Walls & Ceilings	A/B	A	A	A													
Adjustable Mounting										●						●	
Outdoor Mounting																	●
Flangeless			●	●	●		●	●	●	●		●		●	●	●	●
Flanged	●	●				●					●		●				
Lens Included										●	●	●	●	●			
Lensless															●	●	●
Lens – UV and Fire Rated up to 240F option	●	●	●		●	●	●	●	●								
Small Profile Depth – Diffused Light										●	●	●	●	●	●	●	●
Medium Profile Depth – More Diffused Light					●	●	●	●	●								
Large Profile Depth – Best Diffused Light	●	●	●	●													
Aluminum – Anodized	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
MDF (easy paintable)							●										
6 Ft. Length										●	●	●	●	●	●	●	●
6-1/2 Ft. Length (2 meters)	●	●	●	●	●	●	●	●	●								

## SUGGESTED MOUNTING TECHNIQUES

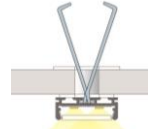
**A** Drywall Recessed Rough-In Mounting with Channel Housing



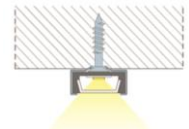
**B** Drywall Recessed Rough-In Mounting with Spring Clip



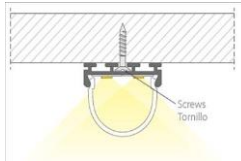
**C** Surface Mounting onto Drywall or Drop Ceilings



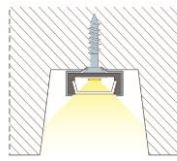
**D** Surface Mounting with Bracket



**E** Surface mounting by Sliding onto Flat Head Screws



**F** Recessed Mounting into Mitered Groove with Bracket



**G** Recessed Mounting into a Mitered Groove using a flanged Channel

