

Customer Name

Project Name

Part Number


### Flexible White LED Strip



### Description

When it comes to an efficient and elegant way to illuminate any accent space, SIRS-E'S Linear LED Tape Lighting allows a level of flexibility and performance that few other lighting fixtures and formats can achieve. The AcuVivid line of White LED Tape now has 5 different Correlated Color Temperature options: 2700K, 3000K, 3500K, 4000K and 5500K. From the warm, sunset like tones of the 2700K, to the bright and neutral cast of the perfectly white 5500K, the AcuVivid Line provides various options to suit any environment. With top of the line quality control and thorough lab testing procedures, including UL listing certifications, the AcuVivid series is the perfect choice when color matching existing lighting and when reliability and safety is key.

### Product Specifications

Input Voltage	12 V DC <sup>2</sup> / 24 V DC	Cuttable Segments	2 in (50 mm) for 12V / 4 in (100 mm) for 24V
Limiting Control Method	CV - Constant Voltage	Reel Length	16.4 ft / 5 m
Power Consumption	4.60 W/ft	Max Run Length	10 meters, 10% luminous flux loss
LED Chip Type	High Quality SMD 5050 3-Diode	Segment Width	0.39 in (10 mm) for IP40 / 0.50 in (12.7 mm) for IP68
LED Density	18 LEDs/ft / 60 LEDs/m	Luminous Flux Maintenance	75,000 hrs <sup>3</sup>
Board Type/Color	4 oz Density Copper, White PCB	Dimming	DMX PWM, RF PWM, 0-10V, MLV, Incandescent
Beam Angle	120°	Environmental	IP 40 - Indoor, Dry / IP 68 - Damp, Wet
Operating Temperature	-20°F to 120°F	Warranty	5 Years Limited
Mounting	Non-Porous: 3M VHB Adhesive Mounting Tape	Certifications	 UL Listed, E479339

### Product Photometrics

Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CIE (x,y)	Duv <sub>1</sub>	CRI	TM-30-15	
						Fidelity (Rf)	Gamut (Rg)
2700 K	315	77.4	(0.4536, 0.4082)	+0.0005	95.9	90.8	97.4
3000 K	321	78.6	(0.4225, 0.3977)	+0.0005	95.9	90.9	97.9
3500 K	327	80.8	(0.3825, 0.3787)	+0.0005	96.2	89.2	98.3
4000 K	330	81.8	(0.3666, 0.3690)	+0.0005	96.3	88.4	97.2
5500 K	329	81.5	(0.3233, 0.3279)	-0.0031	95.9	91.4	102.7

1 - Duv Chromaticity Consistency is throughout the run length. Typically below 1-step MacAdam Ellipse.

2 - AcuVivid™ 12V RGBW LED Strips are Special Order only.

3 - After 75,000 hrs: 30% Luminous Flux loss, 10% Chromaticity change, as per LM-80-15

### Ordering Guide

Series	Voltage	Control	CCT / $\lambda$ <sup>2 3 *</sup>	IP	Run Length
AcuVivid™	XX	CV	XX	XX	16
	12 <sup>1</sup>	CV	27	40	
	24	CC	30	68	
			35		
			40		
			55		

<sup>1</sup> Voltage - AcuVivid™ 12V White LED Strips are Special Order only.

<sup>2</sup> CCT - Correlated Color Temperature, represented by the first 2 digits of the nominal CCT.

### Product Country of Origin

Product Engineering & Design	USA
Assembled	China Preassembled / USA Final Assembly
QC Quality Control	USA
Product Customization	USA
Technical Support	USA

<sup>3</sup>  $\lambda$  - Peak Wavelength, represented by the 3 digits of the color wavelength.

\* CCT /  $\lambda$  - applicable on AcuVivid and AcuHue series only.

<sup>2</sup>27 - White 2700 K

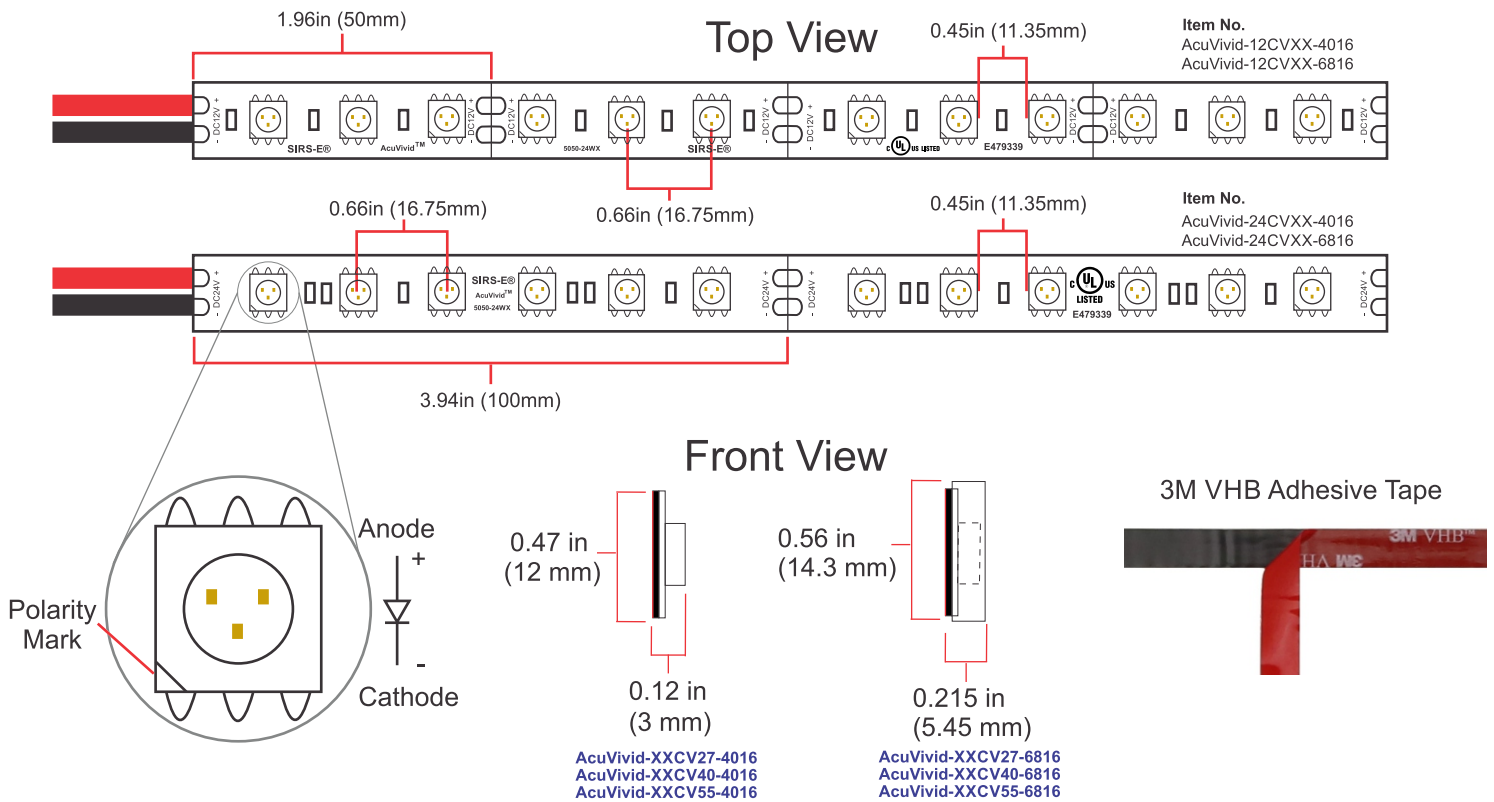
<sup>2</sup>30 - White 3000 K

<sup>2</sup>35 - White 3500 K

<sup>2</sup>40 - White 4000 K

<sup>2</sup>55 - White 5500 K

### Mechanical Dimensions



### Weight

Product Weight: 4.5 oz, 16.4 ft Reel, IP40. Without Packaging.  
13.1 oz, 16.4 ft Reel, IP68. Without Packaging.

### Notes

- A good technique to minimize brightness loss and increase lumen output on CV LED Strips is to power the strip on both sides.
- LED electrical and photometric characteristics change with the manufacturing batch/bin date. Approximately 3-Step MacAdam Ellipses between batches.
- We reserve the right to change any data without prior notice.

## Accessories Compatible

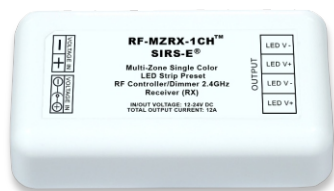
This list shows some of our most sellable accessories compatible for this product. For a complete list, please visit our website.



Meanwell 12V & 24V PSUs  
LED-PS12V-60W-UL  
LED-PS24V-90W-UL



Magnitude Dimmable PSUs  
PS12V60W-DIM  
PS24V96W-DIM



SIRS-E RF Controllers  
RF-MZR-1CH™  
RF-MZR-1CH™  
SIRS-E®  
Multi-Zone Single Color  
LED Strip Press  
RF Controller/Dimmer 2.4GHz  
Receiver (RX)  
INPUT VOLTAGE: 12-24V DC  
TOTAL OUTPUT CURRENT: 12A



SIRS-E DMX Controllers  
DMX-CON3-C2



SIRS-E Waterproof  
Accessories



SIRS-E Single Color Wire Leads



## About Us



SIRS-E /semiconductor • illumination • research • solutions /

In 2004, SIRS-E began research in the use of high powered LED components to be applied in direct lighting fixtures and LED strips. In 2005, SIRS-E developed the RGB HPL01 - 12 watt (60 lumens per watt efficacy) RGB lighting fixture controlled via DMX using LumiLEDs, one of the first high powered LEDs, eventually acquired by Phillips. Included in early research solutions was the development and testing of many different LED strips intended to be used for direct RGB lighting and effects applications.

This was the beginning of what we now know as SIRS - Electronics.