superbrightleds.com

Color Changing LED Strip Lights

RGB Strip Light Specifications

Project _____

Date _____ Type _____

DC-IP67-RGB+CCT-5m

Voltage 12 or 24 VDC Available | RGB+ Tunable White | CRI 80+ | IP67 | LIFE TIME WARRANTY

Available Model[1]

12 VDC

☐ STW-B-G80-A6E-14B5M-12V

24 VDC

☐ STW-B-G80-A12E-14B5M-24V

SAMPLE PART NUMBER BREAKDOWN

STW-B-G80-A6E-14B5M-12V

Series	Strip Type	CRI	LED Type	LEDs/Segment	IP Rating	PCB Width	Density	Length	Voltage
STW-B	**G**	**80**	**A**	**6**	**E**	**14**	**B**	**5M**	**12V**
Weatherproof	RGB+CCT	80+	5050 SMD	6: 6 LEDs/seg 12: 12 LEDs/seg	IP67	14mm	60 LEDs/m	5 meters	12V: 12 VDC 24V: 24 VDC

Overview

This flexible LED strip light uses alternating color-changing and tunable white LEDs to produce bold, brilliant illumination in a wide range of high-quality color tones. Enjoy seamlessly blended color tones and rich, true whites. This strip is entirely waterproof and fit for use outdoors. Peel-and-stick 3M™ adhesive backing enables fast, easy mounting. Backed by a lifetime warranty.

Features

- Alternating 3-in-1 RGB and tunable white 5050 SMD LEDs
- Customize brightness, color tone, and light modes with an RGB + tunable white controller (sold separately)
- IP67 Waterproof

Details

- Maximum run: 16.4 ft (12V), 26.2 ft (24V)
- 16mm strip width
- 0-100% dimmable
- 18 LEDs/ft
- Lifetime exceeds 50000 hours
- 3M™ adhesive backing for surface mounting
- Waterproof, dual-end mating connections

Certifications and Compliances

- UL Listed - UL 2108 (IFDR)
- CE Compliant

UL LISTED CE

Applications

- Accent Lighting
- Backlighting
- Cove Lighting
- Display Cases
- Off Grid Lighting
- Retail Shops
- Sign Lighting
- Task Lighting
- Trade Shows
- Under-Cabinets

Warranty

- Lifetime warranty

T 866.811.5550 | **F** 314.972.6202
https://www.superbrightleds.com
email: commercial-sales@superbrightleds.com

[1]Contact customer service if interested in other options.

Rev V1.0 Date: 12/05/2025

Specifications are subject to change without notice.

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SPECIFICATIONS		
Model	**STW-B-G80-A6E-14B5M-12V**	**STW-B-G80-A12E-14B5M-24V**
PHOTOMETRIC		
Lumens per Foot	168 lm/ft	165 lm/ft
LED Color	RGB+Tunable CCT (2700K-6500K)	
Efficacy	50 lm/W	
CRI	80+	
Beam Angle	120°	
ELECTRICAL		
Operating Voltage	12 VDC	24 VDC
Current Draw	4.6A	2.3A
Current Draw per Foot	280 mA/ft	140 mA/ft
Wattage per Foot	3.4 W/ft	3.3 W/ft
Wattage	55 Watts	54 Watts
Dimmer Type	PWM	
MECHANICAL		
Max Run (Class 2)	16.4ft (5m)	26.2 ft (8 m)
Minimum Cut Length	100mm (3.9in.)	200mm (7.9in.)
LEDs per Segment	6	12
Input Connection Type	6-Pin Waterproof Connector, Pigtail	
LED Type	5050 SMD	
LED Density	18 LEDs/ft	
Strip Width	16mm (0.63in.)	
Length	16.4ft (5m)	
LED Lifetime	50000 hours	
ENVIRONMENTAL		
IP Rating	IP67	
Environmental Rating	Suitable for Wet Locations, Waterproof	
Ambient Operating Temperature	-20 to 60°C (-4 to 140°F)	

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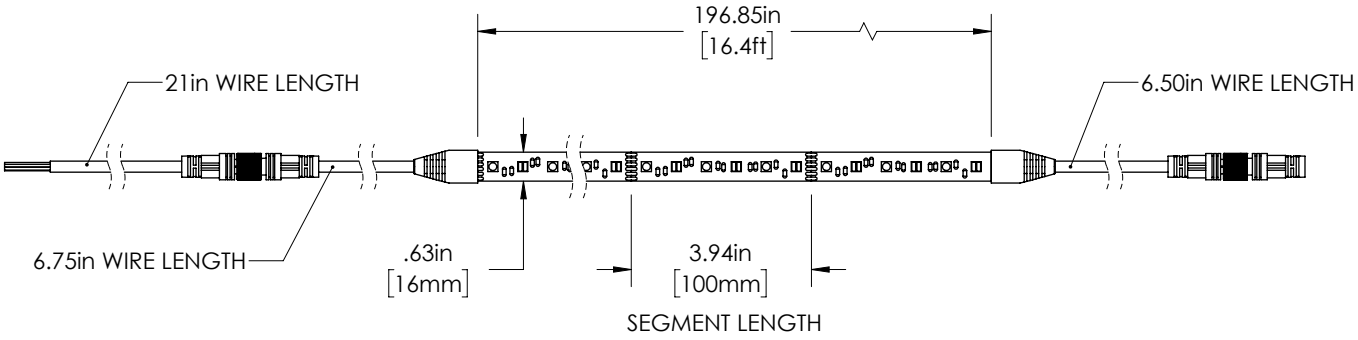
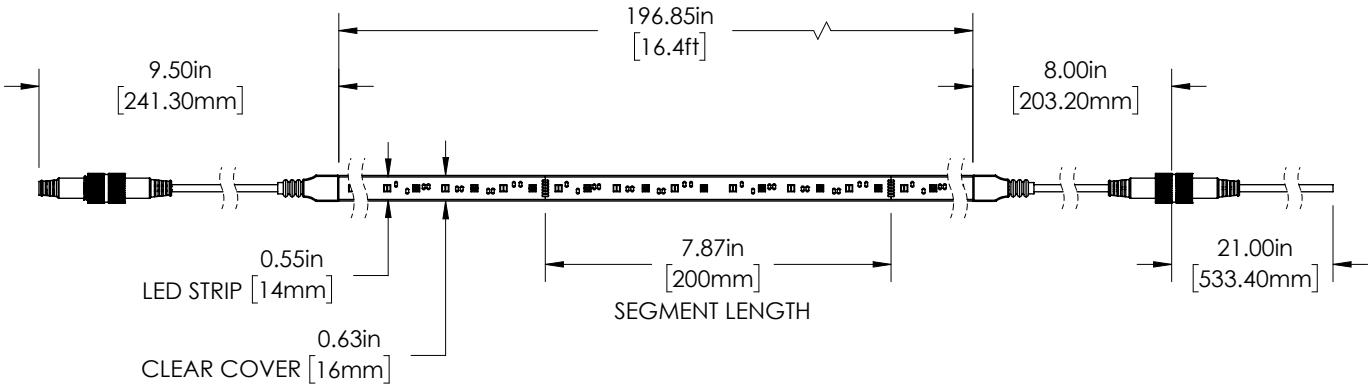
Dimensional Drawings

STW-B-G80-A6E-14B5M-12V

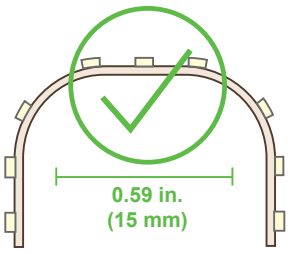


STW-B-G80-A12E-14B5M-24V



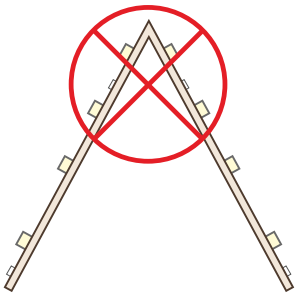
Note: Strip thickness ~0.21in. (5.3mm)

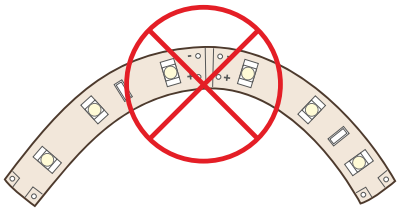
Strip Flexibility



Bends less than 15mm will damage circuit traces and void warranty.

Bending strips at sharp angles will damage circuit traces and void warranty.





Bending strips on horizontal plane will damage circuit traces and void warranty.

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