



RGB LIGHT STRIP

## LS-HEC-24V-20M-12MM-RGBTW

### Feature

- Built with top-quality materials: Epistar/San'an chips, Intermatix phosphor powder, ShinEtsu & Dow Corning glue, Heraeus 99.99% pure gold wire, pure copper, and fresh plastic stand.
- Delivers gorgeous, vibrant lighting effects with RGB, warm white, and cool white LEDs.
- Enhanced light spectrum for deeper blues, purples, bolder colors, and more vivid pastels than standard RGB/RGBW.
- Flexible color combinations with separate LED layouts for customized lighting effects.

### Applications

Ideal for decorative and indirect lighting in:

- Showcases, shelves, cabinets, and billboards
- Signage, hotels, gardens, bridges, and corridors
- Ceilings, stairs, floors, coves, theaters, and lifts



## Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
LS-HEC-24V-20M-12MM-RGBTW	5000*12*1.8mm	RGBTW	SMD	24Vdc	19.2W/M	1420lm/m	Ra≥80&90	100mm	5m	IP20	120°



## Parameter

GENERAL PARAMETERS		PHOTOELECTRIC PARAMETERS	
Standard Length	5M [16.4ft.] (power fed on one side)	Power $\pm$ 10%	19.2W/M [5.85W/ft.]
Min. Unit & LED QTY	100mm [3.94in.] & 18 LEDs	Input Voltage	24VDC
LED Type	SMD3535 RGB + SMD2835 white+ SMD2835 white	LED Current	R:10mA, G:10mA, B:10mA, WW: 25mA, CW: 25mA
LED QTY	180LED/M [54LED/ft.]	LED CCT & Wavelength	R:620~625nm, G:520~525nm, B:465~470nm, WW:2700, CW:6500K
PCB Type	2oz white FPC, OSP	SDCM	W: ErP & ANSI Norm, 3 step
Operating Ambient	Ta(working): -20~45°C & Tstg(storage): -20~60°C	CRI	W: Ra $\geq$ 80&90
Warranty	5 years	Beam Angle	120°
Lifespan	W: L70 $\geq$ 50,000@Tc $\leq$ 65°C (Tc is temperature of LED pin)	Dimming Method	PWM (dimmable driver like RF, Bluetooth, 0/1-10V, Triac, DALI, DMX, WIFI etc.)
Certification	CE, UL, CB, SAA, RoHS, LM80		

Note:

- Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.
- Transmittance for IP54/IP67/IP68, 2700K/3000K is 95%, 3500K/4000K is 90%, 5000K/6500K is 80%; for IP65/IP54 Plus/IP67 Plus is 95%.
- Applying with extra heat sink for cooling is proposed.
- 3M 300LSE yellow adhesive tape attached on backside, is standard configuration of Plus Series.
- One end of 200mm AWG22 brown/green/red/blue/white/black PVC cable or waterproof connector kit according to specific IP rating, is standard configuration of Plus Series.
- Transparent reel and silvery ESD bag, are standard configuration of Plus Series.
- Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.
- Power maintenance rate = actual measured power in a certain length / (a same certain length \* actual measured power in 1M[3.28ft.] length);  
Brightness maintenance rate = actual measured brightness on the tail section in a certain length / actual measured brightness on the first section in a same certain length. (Generally, there are few cases of full power operation for mixed colour like RGB/RGBW/RGBWCT/RGBWCCT)

## Dimensions Diagram



## Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	11 November 2025	Jesse Jankelowitz	Michael Xu