



RGB LIGHT STRIP

LS-HEC-24V-20M-10MM-RGBW

Feature

- High efficiency with 7 LEDs per color in series.
- RGB+W design broadens the light spectrum.
- Compact high-density SMD2835 LED array.
- 10mm PCB fits most aluminum profiles.
- Flexible LED package combinations.
- Colour mixing similar to 4-in-1 LEDs with close mounting.

Applications

- Indirect decorative lighting for tables, showcases, shelves, cabinets, corridors, stairs, coves, and ceilings.



Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
LS-HEC-24V-20M-10MM-RGBW	5000*10*1.8mm	RGBW	SMD	24Vdc	19.2W/M	1140lm/m	Ra≥90	83.3mm	5m	IP20	120°

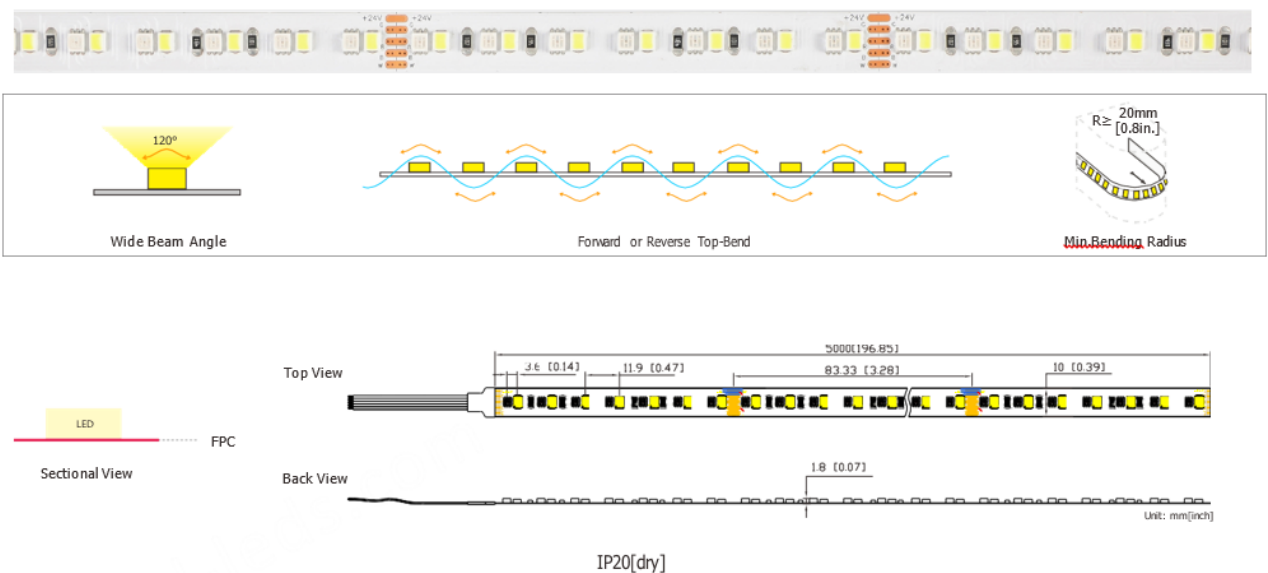
Parameters

General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft.] (power fed on one side)	Power±10%	19.2W/M [5.85W/ft.] (RGB: 8.64W/M[2.6W/ft.], W: 10.56W/M[3.2W/ft.])
Min. Unit & LED QTY	83.3mm [3.28in.] & 14LEDs	Input Voltage	24VDC
LED Type	SMD2835 RGB + White	LED Current	R: 10mA/LED, G: 10mA/LED B: 10mA/LED, W: 37mA/LED
LED QTY	168LEDs/M [51LEDs/ft.]	LED CCT & Wavelength	R: 615~625nm, G: 510~525nm, B: 460~470nm W: 2700K&3000K&3500K&4000K&5000K&6500K
PCB Type	3oz white FPC, OSP	SDCM	W: ANSI Norm, 3 step
Operating Ambient	Ta(working): -20~45°C [-4~113°F] & Tstg(storage): -20~60°C [-4~140°F]	CRI	W: Ra≥90
Warranty	5 years	Beam Angle	120°
Lifespan	W: L70≥50,000@Tc≤65°C [149°F] (Tc is temperature of LED pin)	Dimming Method	PWM (dimnable driver like RF, Bluetooth, 0/1-10V, Triac, DALI, DMX, WIFI etc.)
Certification	CE, UL, CB, SAA, RoHS, LM80		



1. Dimension and optical parameters such as lumen flux, CCT, etc. of the waterproof product may vary compared with the IP20 version.
2. 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.
3. Transmittance for IP54 Thin/IP54/IP67/IP68, 2700K/3000K is 95%, 3500K/4000K is 90%, 5000K/6500K is 80%; transmittance for IP65/ IP54 Plus/ IP67 Plus Thin/IP67 Plus is 95%.
4. Applying with extra heat shrink for cooling is proposed.
5. 3M 300LSE yellow adhesive tape attached on backside, is standard configuration.
6. One end of 200mm black/green/red/blue/white PVC cable or waterproof connector kit according to specific IP rating, is standard configuration.
7. Transparent reel and silvery ESD bag, are standard configuration.
8. Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.
9. 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/RGBCCT/RGBWCCT)

Dimensions Diagram



Document Revision

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