

## High-Efficacy Free-Cutting Series

Static Colors 27k-65k & Tunable White



## LED Flexible Strip

### Features

The HEFC Series is a flexible, efficient, Tunable White (2700K-6500K) LED Strip. At 5.5 watts per foot (713 lumens per foot), the HEFC boasts both high efficacy and high CRI with 55 LEDs per foot, creating high output with a lower power consumption. High density of LED array for dot-free linear lighting performance. The HEFC offers maximum customization with multiple channel options and a segment length of only 0.44 inches. Various IP ratings available.

UL and CE with a 5-year warranty.

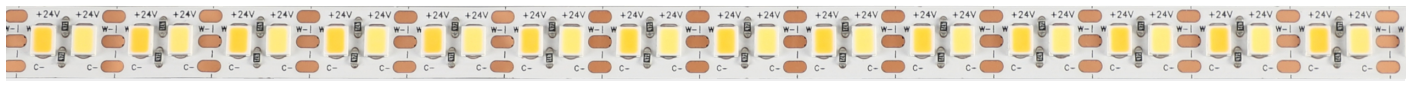
### Application

The HEFC is engineered for indirect lighting in showcases, shelving, cabinetry, billboards, signage, hotels, gardens, bridges, corridors, ceilings, stairways, coves, theaters, elevators, and suitable for countless other applications.

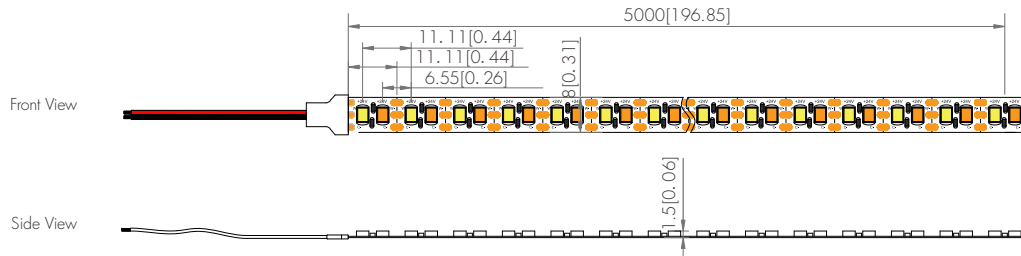


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### Diagram



Unit: mm[in.]



### Specification

Part No.	Dimension (L*W*H)	IP Rating	Lumen Flux±10% @CRI80&4000K	Light Eff. @CRI80&4000K	Lumen Flux±10% @CRI90&4000K	Light Eff. @CRI90&4000K
HEFC-9678S	5000*8*1.5mm [197*0.31*0.06in.]	IP20 [Dry]	\	\	2340lm/M [713lm/ft.]	130lm/W
HEFC-9678S	5000*8*2mm [197*0.31*0.08in.]	IP54 Thin [Damp]	\	\	2340*90%lm/M [713*90%lm/ft.]	130*90%lm/W
HEFC-9678S	5000*10*4mm [197*0.39*0.16in.]	IP65 [Wet]	\	\	2340*95%lm/M [713*95%lm/ft.]	130*95%lm/W
HEFC-9678S	5000*10*4mm [197*0.39*0.16in.]	IP67 [Wet]	\	\	2340*90%lm/M [713*90%lm/ft.]	130*90%lm/W
HEFC-9678S	5000*10*4mm [197*0.39*0.16in.]	IP68 [Wet]	\	\	2340*90%lm/M [713*90%lm/ft.]	130*90%lm/W

General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft] (power fed on one side)	Power±10%	18W/M [5.5W/ft.]
Increment & LED QTY	11.1mm[0.44in.] & 1 LED	Input Voltage	24VDC
LED Type	SMD2835 white	LED Current	4mA/LED
LED QTY	180LED/M [55LED/ft.]	LED CCT & Wavelength	2700~6500K CCT-Tunable
PCB Type	3oz white FPC, OSP	SDCM	ErP & ANSI Norm, 3 step in one bin
Operating Ambient	Ta(working): -20~45°C[-4~113°F] & Tstg(storage): -20~60°C[-4~140°F]	CRI	Ra≥90
Warranty	5 years	Beam Angle	120°
Lifespan	L70≥50,000h@Tc≤65°C [149°F] (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		

## LED Flexible Strip

### Specification

- Note:**
- 1: The lumen flux value above is base on 1M[3.28ft.] long, it need to be measured and considered separately for other longer lengths.
  - 2: Energy efficiency class of regulation (EU) 2019/2020 is E (CRI90) for 4000K in IP20, it varies depending on CRI, CCT and IP rating.
  - 3: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K/6500K is 5% lower, for CCT 5000K is 3% lower, compared with 4000K.
  - 4: Transmittance for IP54/IP67/IP68, 2700K/3000K/3500K/4000K is 90%, 5000K/6500K is 80%; for IP65/IP54 Plus/IP67 Plus is 95%.
  - 5: Dimension, CCT and lumen flux etc. of waterproof type will be different, compared with IP20 type.
  - 6: Applying with extra heat sink is proposed.
  - 7: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration.
  - 8: One end of 200mm[7.87in.] red/white silicon cable or waterproof connector kit according to specific IP rating, is standard configuration of Plus Series.
  - 9: Transparent reel and silvery ESD bag, are standard configuration.
  - 10: Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.
  - 11: 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-color like RGB/RGBW/RGBCCT/RGBWCCT)

POWER & BRIGHTNESS vs. LENGTH CHARACTERISTIC (POWER FED ON ONE SIDE)					
Length Of Single Product	1M [3.28ft.]	2M [6.56ft.]	3M [9.84ft.]	4M [13.1ft.]	5M [16.4ft.]
Actual Measured Power	18.5W	34.8W	47.7W	58.5W	65.7W
Power Maintenance Rate	100%	94%	86%	79%	71%
Brightness Maintenance Rate	99%	93%	86%	78%	70%

- 12: Some parameters and configurations are customizable, do not hesitate to contact us for a more detailed discussion.

## LED Flexible Strip

### Ordering Information

MODEL	COLOR	LENGTH	IP	VOLTAGE				
HEFC-9678S	27K	2700K	16.4	16.4' Reel	20	IP20	24V	24 Volt DC
	30K	3000K						
	35K	3500K	CU	Custom Length	54	IP54		
	40K	4000K			65	IP65		
	50K	5000K			67	IP67		
	65K	6500K			68	IP68		
	TW	Tunable white						

### Accessories

**FS-HEFC-9678S-WL** Wire lead connector for static white strip

**FS-HEFC-9678S-JC** Jumper cable connector static white strip

**FS-HEFC-9678S-SSC** Strip to strip connector for static white strip



### Recommended Power Supplies

Dimmable with 0-10v, ELV, MLV, TRIAC



Item Number	Description	Max/Min Load	Input Voltage	Output Voltage	Dimmable	Dimensions
PS-TSLC-UNV-24V-30WDHV2	30W	30W / 3W	100-277V AC	24V DC	Yes*	6.49"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-60WDHV2	60W	60W / 6W	100-277V AC	24V DC	Yes*	7.4"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-96WDHV2	96W	96W / 9.6W	100-277V AC	24V DC	Yes*	8.66"L x 3.6"W x 1.61"H
PS-TSLC-UNV-24V-288WDHV2	288W (3 x 96W)	288W / 28.8W	100-277V AC	24V DC	Yes*	11.85"L x 4.25"W x 1.8"H