



Neon Flex RGB LED – Slim Series

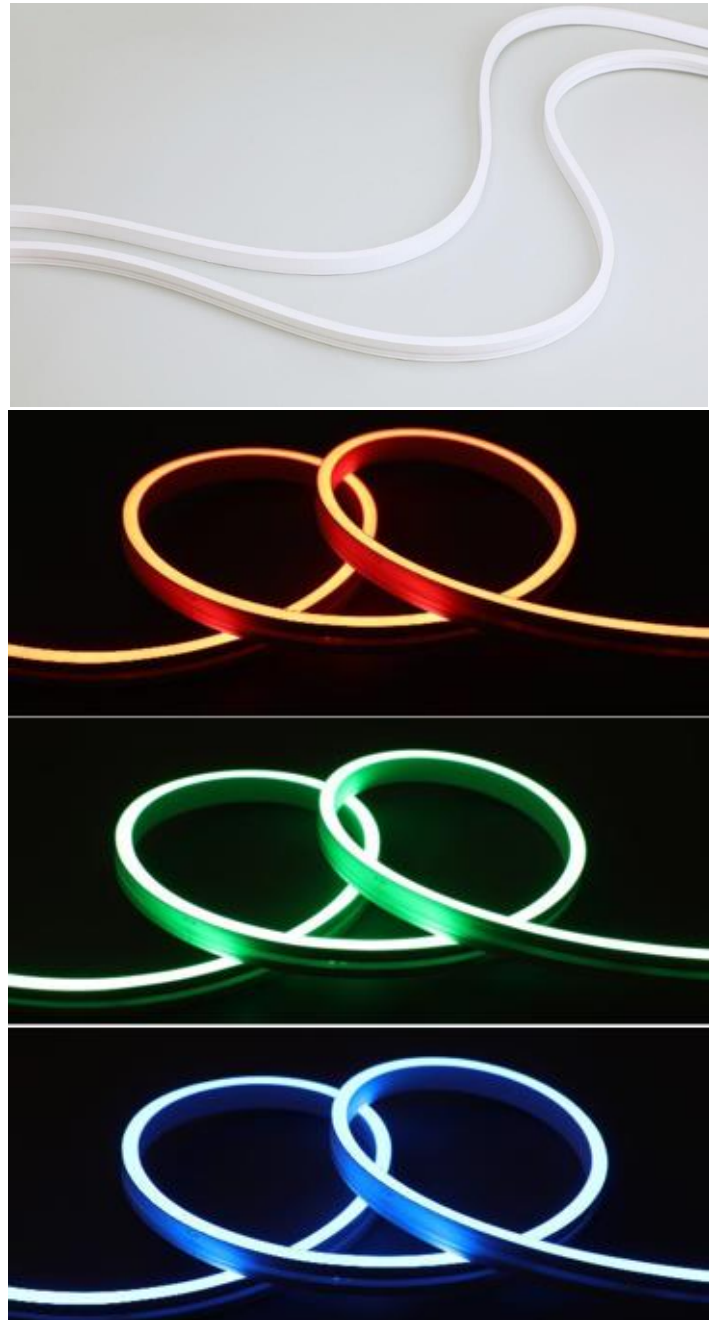
NF-SBD-24V-5M-6X12MM-RGB-IP67

Feature

- Easy and flexible installation (surface or flush mount; cabinet, shelf, etc.)
- Uniform, dot-free lighting up to 10 m (32.8 ft) per run
- Cuttable to any length with sealed end caps
- Dimmable via PWM signal
- Durable PVC sheathing with silicone extrusion technology
- High brightness, flexibility, impact and weather resistance
- Long lifespan up to 50,000 hours
- 5-year warranty

Applications

- Showcase and advertising display lighting
- Hotel, garden, and bridge lighting
- Corridor, ceiling, stair, and pathway lighting
- Signage and architectural lighting



Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
NF-SBD-24V-5M-6X12MM-RGB-IP67	5000*6*12mm	RGB	SMD (Side Bend)	24Vdc	12W/m	125lm/m	Ra≥90	50mm	5m	IP67	120°



Parameters

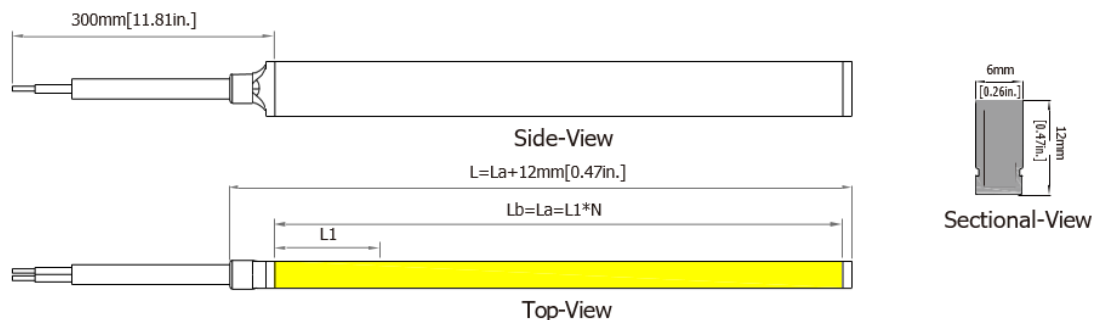
Style	Dimension	Max. Run Length (La) & Max. Shipping Length	Increment	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
Side-Bend (White)	W6xH12mm [W0.23xH0.47in.]	5M [16.4ft.] & 50M [164ft.]	Free cutting to be any length	SMD 2835	120LED/M [36LED/ft]	IP67 & IK06	Ta: -20~45°C [4~113°F]	50,000h (L70@ Tc≤65°C[149°F], Tc is the temp. of LED pin.)	5 years
Side-Bend (CCT)		10M [32.8ft.] & 50M [164ft.]							
Side-Bend (RGB)		5M [16.4ft.] & 50M [164ft.]	50mm [1.97in.]	SMD 2835	240LED/M [73LED/ft]				
			50mm [1.97in.]	SMD 4040	120LED/M [36LED/ft]				

Style	Power ±10%	Operating Voltage	Finished Product CCT/ Wavelength	CRI80, 4000K		CRI90, 4000K	Beam Angle
				Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	
Side-Bend (White)	9W/M [2.74W/ft.]	DC24V	2700K±120K 3000K±150K 3500K±300K 4000K±300K 5000K±400K 6000K±500K (LED is 3-step SDCM in one bin)	260lm/M [80lm/ft.]	\	220lm/M [67lm/ft.]	120°
	6W/M [1.83W/ft.]		180lm/M [55lm/ft.]	\	150lm/M [46lm/ft.]		
Side-Bend (CCT)	12W/M [3.66W/ft.]		2700K~6000K CCT-tunable (LED is 3-step SDCM in one bin)	2700K:154lm/M [47lm/ft.] 6000K:169lm/M [52lm/ft.] Mix:323lm/M [98lm/ft.]	\	2700K:131lm/M [40lm/ft.] 6000K:144lm/M [44lm/ft.] Mix:275lm/M [84lm/ft.]	
Side-Bend (RGB)	12W/M [3.66W/ft.]		R:650-630nm G:515-525nm B:460-470nm	R:28lm/M [8.5lm/ft.], G:81lm/M [24.7lm/ft.] B:16lm/M [4.9lm/ft.], Mix:125lm/M [38lm/ft.]			

Note:

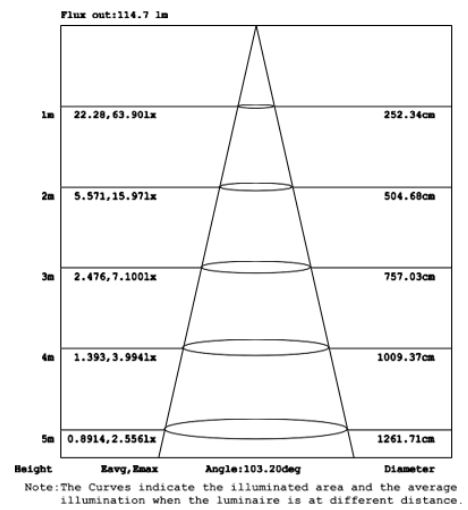
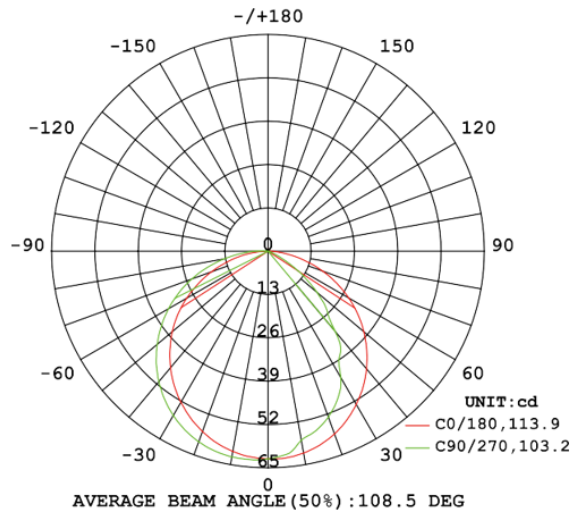
- (1) Luminous flux for CCT 2700K is 10% lower, for CCT 3000K is 8% lower, for CCT 3500K is 3% lower, for CCT 5000K/6000K is 2% lower, compared with 4000K.
- (2) The Max. Length (La) is defined as power fed on one side.
- (3) The power of the strip needs to be reduced to 6W/M[1.82W/ft.]@White and 8W/M[2.44W/ft.]@CCT/RGB for operating ambient temperature in -20~55°C[-4~131°F].
- (4) The standard packing length is fixed by default per reel without installation accessories; customized packing length is required to be evaluated.
- (5) Installation accessories pack should be ordered separately according to specific case.

Dimensions Diagram





Spectroscopic Data



Side-Bend, NS-204 (9W, CRI80, 2700K)

Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	07 January 2026	Jesse Jankelowitz	Michael Xu