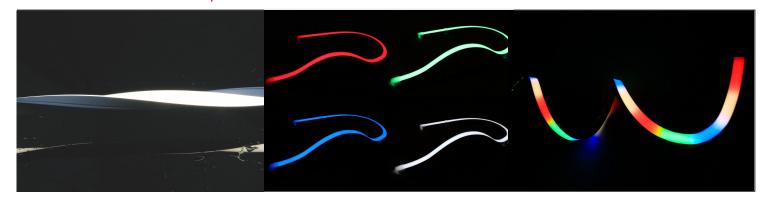


Neon SERIES | Free-Cutting Dual Bend



Application

This dual-bending LED Neon Strip is designed for decorative and ambient lighting in hotels, restaurants retail, showroom, bar and any commercial application where you want your space to stand out.

Features

- Dual-bend performance to fix many plane, curved, and complex irregular structures at will
- White, CCT-tunable, RGB, RGBW, SPI RGBW (IC in UCS8904) and DMX RGBW (IC in TM5 12AC) options are available for wide versatility
- 4.27 watts per foot
- On-site cuttable and assembly for fast and flexible customization operation, with end cap sealed by gluing process.
- Customized length with overall appearance in the same size by die-casting process
- Dimmable available with PWM signal
- Silicon extrusion technology is an advanced process resulting in a high grade appearance, soft bend flexibility, strong impact resistance and high weather resistance
- Up to 50,000h LED lifespan and 5 year warranty
- IP67 waterproofing for indoor or outdoor usage.

FNS

Introducing The Smart Lighting Company's newest upgrade to LED Tape technology! Our Dual Bend Neon Strip FNS Series is a high-performance lighting in a compact form designed to fix many plane, curved and complex structure irregularities. This top and side bending strip is cuttable on site and is IP67 rated for indoor or outdoor wet locations.

Easily customizable with options for free-cutting, this is available in Static White, Tunable White, RGB and RGBW. The FNS is dimmable, and compatible with most ELV and TRIAC dimmers. The FNS is capable of many different applications and can be fabricated to the specifications of your project.





























Specifications and Performance

	STATIC WHITE	TUNABLE WHITE	RGB	RGBW	SPI RGBW	DMX RGBW			
Watts per Foot	4.27	4.27	4.27	4.27	4.27	4.27			
Max Run Length	16.4ft	16.4ft	16.4ft	16.4ft	16.4ft	16.4ft			
Cuttable (factory cut only)	Free-cutting	Free-cutting	2.46"	2.46""	2.46""	2.46""			
Lumens per Foot	286lm	280lm	310lm	158lm	93lm	91lm			
Lumens per Watt	90lm/w	72lm/w	220lm/w	220lm/w	220lm/w	220lm/w			
LEDs Per Foot	67	67	/	/	/	/			
Input Voltage	24vdc								
Beam Spread	120°								
CRI	80, 90								
LED Lifespan	L70 ≥50,000 @ To	2 ≤ 65							
Dimming	PWM								
Dimensions	0.79"x 0.79"								
ССТ	2700k, 3000k, 40	000k, 5000k, 6000	ok, TW, RGB, RGE	SW, SPI RGBW, D	MX RGBW				
Operating Temp	-4°F to 113°F (-20)°C to 45°C)							
Ambient Temp	-4°F to 140°F (-20	O°C to 60°C)							
Environment	IP67								
Warranty	5 Year	5 Year 3 Year							
Certifications	CE, UL, RoHS,								





















NEON SERIES ORDERING INFORMATION

Ordering Example: FNS-DB-xxK-xxL-24VDC

Part No.	Style	Color Temp			Length	Voltage		
FNS	DB Dual-Bend	27 30 35 40 50 60 TW RGB RGBW SRGBW DRGBW	2700k 3000k 3500k 4000k 5000k 6000k Tunable white RGB RGBW SPI RGBW DMX RGBW	16 CU	16.4ft Custom Length see pg.2 for available cutting lengths	24	24vdc	

Mounting Accessories

FNS-A-SMB Surface mount FNS-MB Mounting Bracket (2 pieces)

FNS-A-SK Ceiling mount **FNS-AL-SCH** Aluminum Channel 39.37" length (1M)

FNS-A-PCC Suspended Mount FNS-AL-FDBCH Aluminum Flexible Channel 39.37" length

(1M) Max Run is 196"/roll

Wiring and End Cap Accessories

FNS-RPF Rear Power Feed 11.8" (300mm) leads

FNS-SPF Side Power Feed 11.8" (300mm) leads

FNS-BPF Bottom Power Feed 11.8" (300mm) leads

*All power feeds include a front cap and an end cap

FNS-ERF-EK Extra Rear Feed Endcap Kit Extra

FNS-ESF-EK Side Feed Endcap Kit Extra

FNS-EBF-EK Bottom Feed Endcap Kit

























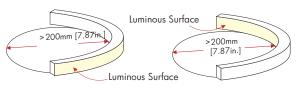
NEON SERIES ORDERING INFORMATION

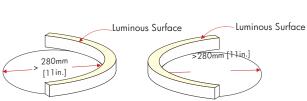
Recommended Power Supplies



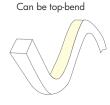
Dimmable with 0-10v, ELV, MLV, TRIAC

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 × 3.6"W × 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 × 4.25″W × 1.8″H

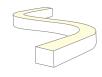








Can be side-bend























Specifications and Performance

Part No.	Style	Dimension	Max. Run Length (La) & Max. Shipping Length	Strip Increment (L1)	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
	White	W0.79xH0.79in.	1 6.4ft. (Power fed on one side) & 98.4ft.	Free-cutting to be any length	SMD	[36LED/ft.]		Ta: -4~113°F		
	ССТ				2835	[73LED/ft.]	IP67			
	RGB				SMD 5050	96LED/M [29LED/fi.]			50,000h (White/CCT/	5 years
	RGBW								RGB/RGBW), 36,000h	(White/ CCT/ RGB/
FNS	SPI RGBW		16.4ft. (Power fed on one side) & 32.8ft.	2.46in.	SMD 4040				(SPI RGBW/ DMX RGBW)	RGBW),
	16 pixels/3.28ft.								(L70@ Tc≤149°F	3 years (SPI RGBW/
	4 points/pixel								Tc is the temp.	DMX RGBW)
	DMX RGBW 16 pixels/3.28ft. & 4 addresses/pixel				SMD 5050	96LED/M [29LED/ft.]				

Photoelectric Parameters

Part No.	6. 1	Power ±10%	Operating Voltage	Finished Product	IP67 CRI80, 400	OOK	IP67 CRI90, 40	00K	Beam
	Style			CCT/ Wavelength	Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	Light Efficiency	
	White		24VDC	2700K±120K 3000K±150K 3500K±300K 4000K±300K 5000K±400K 6000K±500K	286lm/ft.	67lm/W	250lm/ft.	58lm/W	
	ССТ			2700-6000K CCT-Tunable	2700K:134lm/ft. 6000K:146lm/ft. Mix:280lm/ft.	63lm/W 68lm/W 67lm/W	68lm/W 6000K:128lm/ft.		
FNS	RGB	4.27W/fl.		R:620-630nm G:518-528nm B:460-470nm	R:27lm/ft. G:55lm/ft. B:12lm/ft. Mix:94lm/ft.	\	\	\	
	RGBW			R:620-630nm G:518-528nm B:460-470nm W:2700-6500K	R:21lm/ft. G:58lm/ft. B:12lm/ft. W:67lm/ft. Mix:158lm/ft.	\	R:21lm/ft. G:58lm/ft. B:12lm/ft. W:54lm/ft. Mix:146lm/ft.	\	120°
	SPI RGBW 16 pixels/3.28ft. & 4 points/pixel			R:620-630nm G:518-528nm B:460-470nm W:2700-6500K	R:11lm/ft. G:39lm/ft. B:7lm/ft. W:36lm/ft. Mix:93lm/ft.	\	R:11lm/ft. G:39lm/ft. B:7lm/ft. W:30lm/ft. Mix:88lm/ft.	\	
	DMX RGBW 16 pixels/3.28ft. & 4 addresses /pixel			R:620-630nm G:518-528nm B:460-470nm W:2700-6500K	R:8lm/ft. G:37lm/ft. B:7lm/ft. W:39lm/ft. Mix:91lm/ft.	\	R:8lm/ft. G:37lm/ft. B:7lm/ft. W:33lm/ft. Mix:85lm/ft.	\	













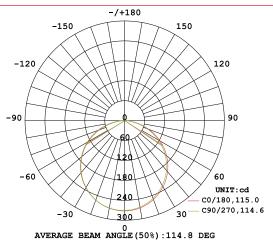


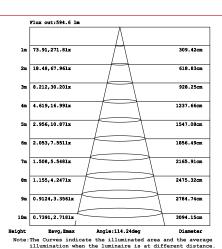




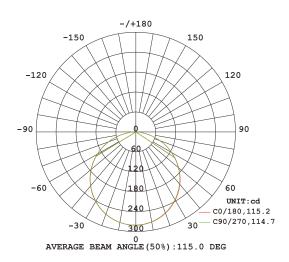


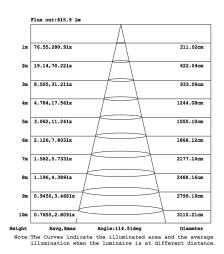
Light Distribution



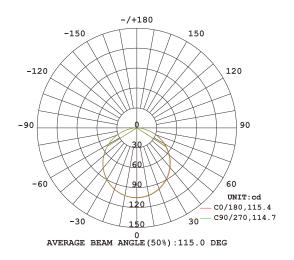


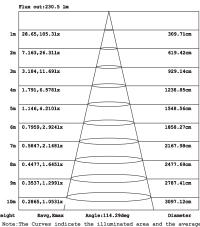
White, 3000K, CRI90





CCT, 2700+6000K, CRI90





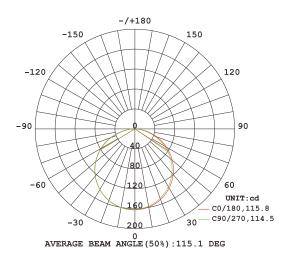
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance

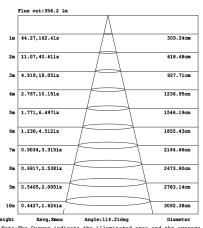
RGB





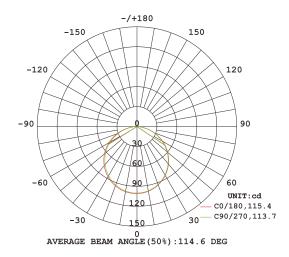
Light Distribution

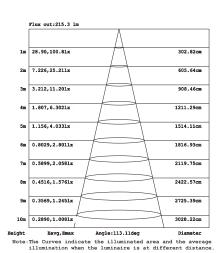




Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

RGBW, 4000K, CRI90



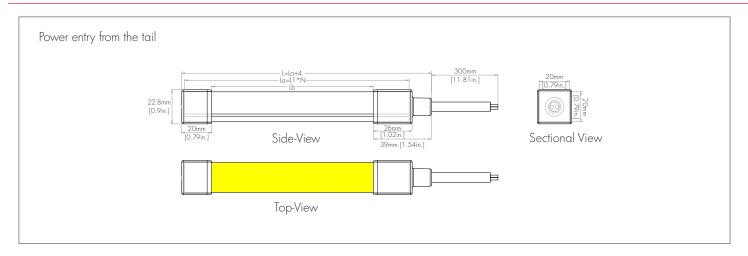


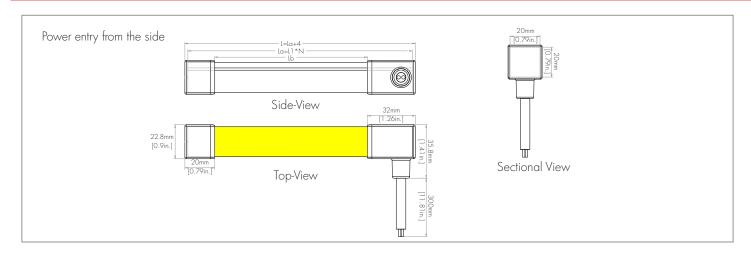
DMX RGBW, 4000K, CRI90





Diagram & Dimensions - Endcap sealed by gluing process





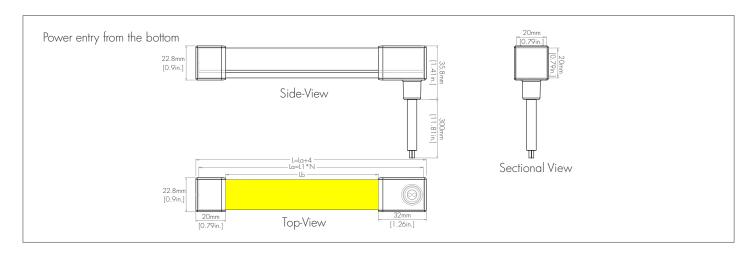
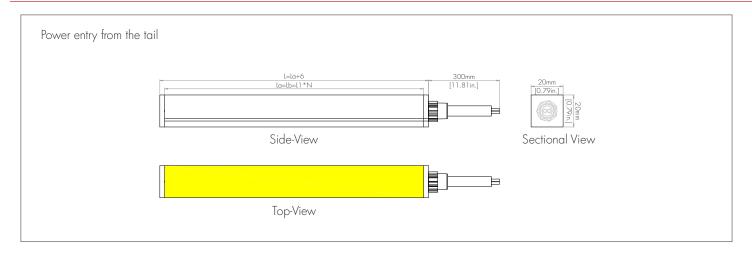
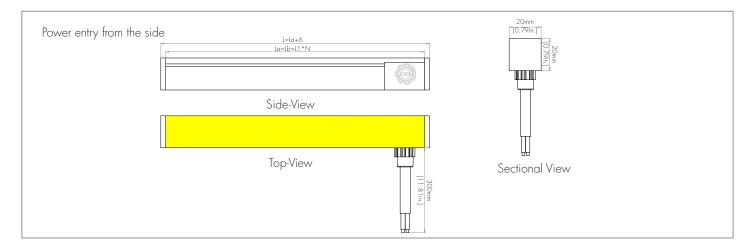
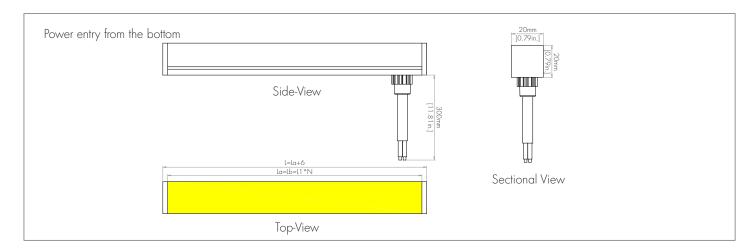




Diagram & Dimensions - Endcap sealed by die-casting process



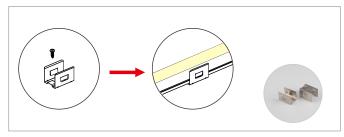






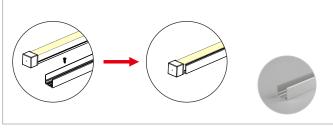
Installation

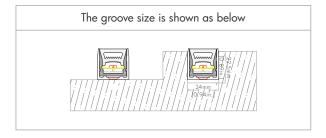
Option 1: Fixed by bracket.



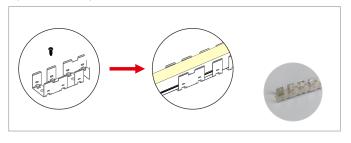
The groove size is shown as below

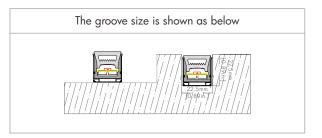
Option 2: Fixed by aluminum channel.





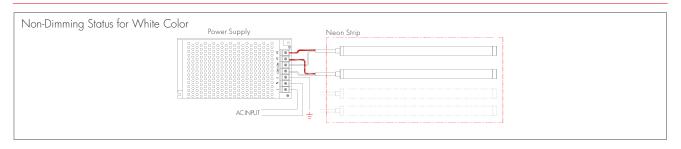
Option 3: Fixed by bendable bracket.

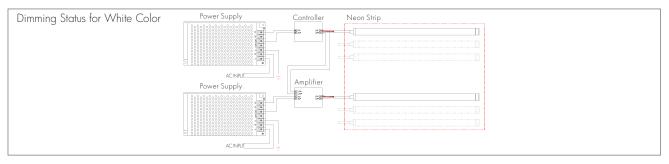




Note: It can also support surface & recessed mounting by gluing process.

Connection

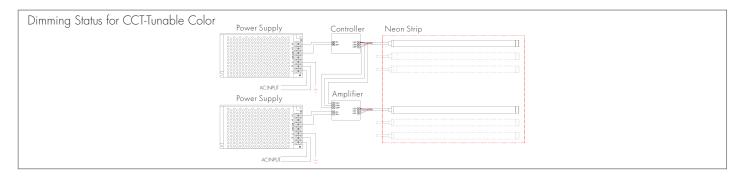


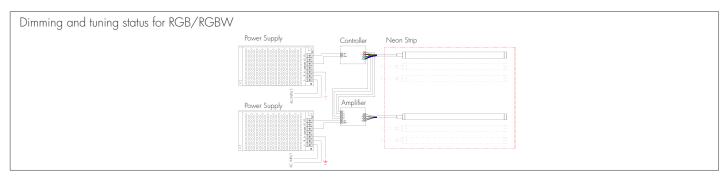


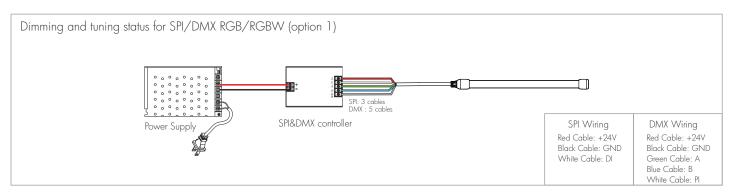


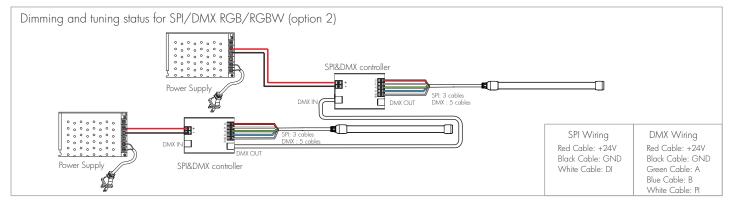


Connection









Important notice for wiring: the linkable connection must be form DI/PI to Do/PO strictly following the arrow printing on connector. It cannot be connected in reverse, otherwise the product will not work.

