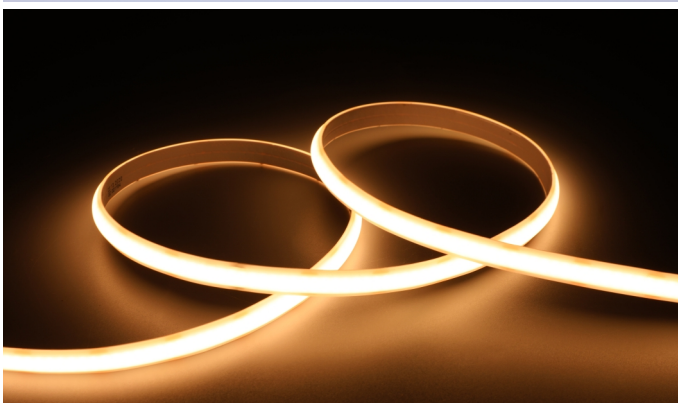


# LED Strip Light

## IP54 Pure Flow Series

Ultra-Thin Dot-Free 2835 LED NS-413



### Features

- Same as FCOB strip -

1. Dot-free linear and homogeneous lighting performance.
2. Very flexible top-bend style in ultra-thin appearance.
3. Multiple voltages, widths, LED densities and powers.
4. Infield cutting and assembly, simple mounted by 3M tape.
5. Quite short cutting unit with high density LED array

- Better than FCOB strip -

6. More reliable and mature solution assure 50,000h lifespan and 5 years warranty, using LM80&TM-21 certified 2835 LED.
7. More perfect color consistency and uniform lighting area for the entire run length.
8. More powerful and brighter with higher light efficacy.
9. Much wider lighting area, no dark angle emitting part on both edges.
10. More flexible customized of parameters such as color, CCT, CRI, brightness, power etc.
11. Better structural and mechanical property against quality issues during usage and processing.
12. Higher production efficiency and quality rate adopting mature silicone extrusion processing technology. with high transmittance in 85-95%.
13. Ultra-long production and packing length up to 50M[164ft.] per spool.
14. Higher waterproof rating in IP54 for indoor application.
15. Higher price-performance ratio.

### Application

1. Excellent lighting solution for residential and retail market.



# LED Strip Light

## General Parameters

Part No.	Dimension	Max. Length (La)	Min. Unit (L1)	LED Type	LED QTY	IP Rating	Operating Ambient	Lifespan	Warranty
NS-413 (GL-K2835XX-24-CV-304-720L)	W10*H4mm [W0.39*H0.16in.]	5M [16.4ft.]	26.3mm [1.04in.]	SMD2835	304LED/M [92LED/ft.]	IP54 [Damp]	Ta: -20~45°C	50,000h (L70@ Tc≤65°C, Tc is the temp. of LED pin)	5 years

## Photoelectric Parameters

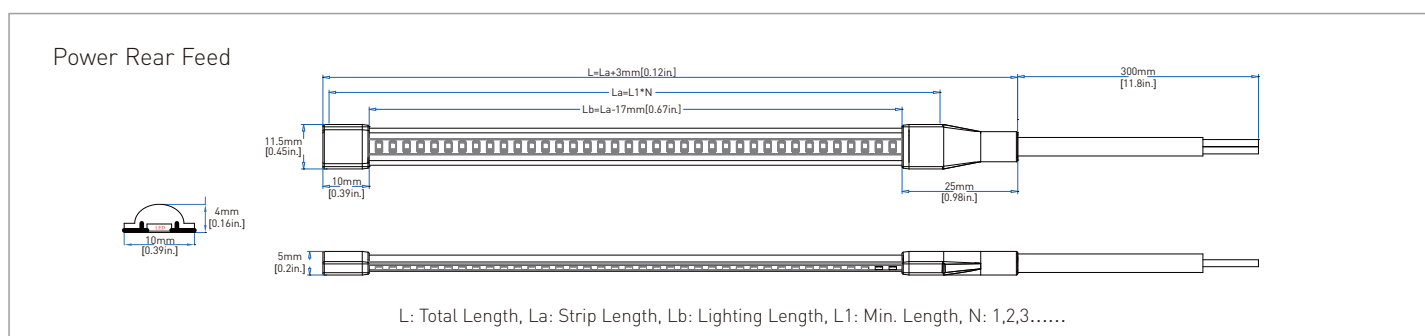
Part No.	Power ± 10%	Operating Voltage	Finished Product CCT/ Wavelength	CRI80, 4000K		CRI90, 4000K		Beam Angle
				Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	Light Efficiency	
NS-413 (GL-K2835XX-24-CV-304-720L)	24W/M [7.3W/ft.]	24VDC	2700K±120K 3000K±150K 3500K±300K 4000K±300K 5000K±400K 6500K±500K & LED in 3 step	3360lm/M [1020lm/ft.]	140lm/W	2830lm/M [860lm/ft.]	118lm/W	Vertical 120° / Horizontal 140°

## Notice:

- (1) The value of lumen flux above, is base on the test report of integrated sphere, actually it can be 10~15% higher in the IES report.
- (2) Energy efficiency class of regulation (EU) 2020/2015 is F[CRI80/CRI90] for 4000K in IP54 with part No. GL-H2835XX-24-CV-308-560L, it varies depending on CRI, CCT and IP rating.
- (3) Energy efficiency class of regulation (EU) 2020/2015 is E[CRI80]/E~F[CRI90] for 4000K in IP54 with part No. GL-H2835XX-24-CV-304-720L, it varies depending on CRI, CCT and IP rating.

## Specification

### Dimension / Diagram

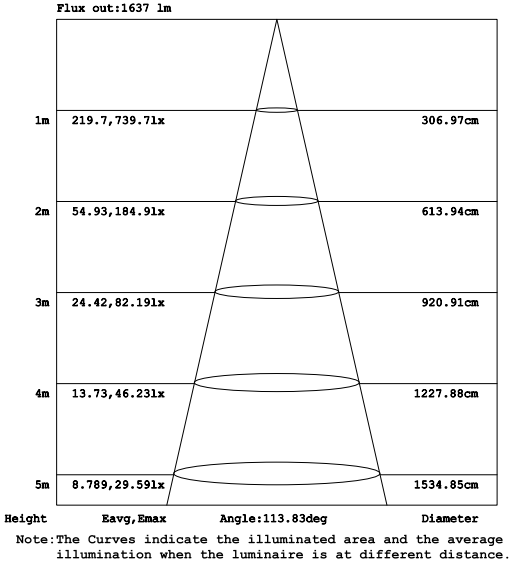
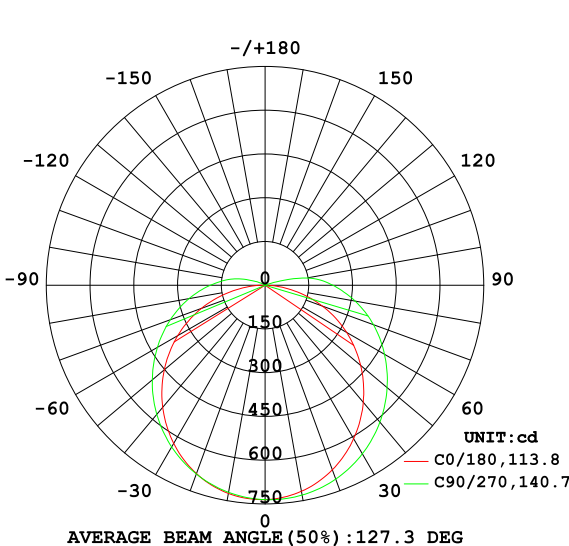


# LED Strip Light

**Note:**

- (1) 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.
- (2) The Max. Length (La) is defined as power fed on one side.
- (3) Applying with extra heat sink, it's not necessary with self-cooling capacity for 15W/M[4.57W/ft.], it's proposed for 15-20W/M[4.57-6.1W/ft.] and it's mandatory for >20W/M[6.1W/ft.].
- (4) 3M 300LSE adhesive tape attached on backside, is standard configuration.
- (5) One end of 300mm length, red/black double insulated PVC cable, white reel and silvery ESD bag, are standard configuration.

## Light Distribution Diagram

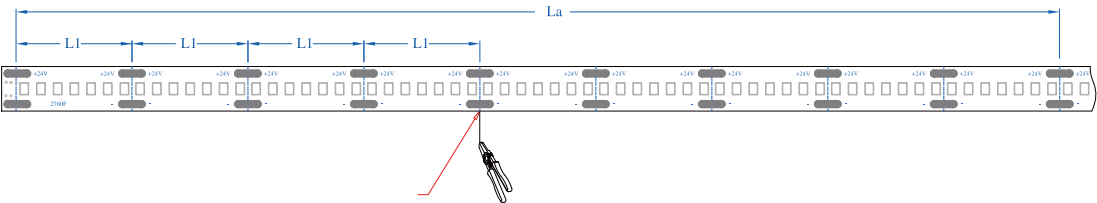


24W/M[7.3W/ft.], CRI80, 3000K, 1M[3.28ft.]

# LED Strip Light

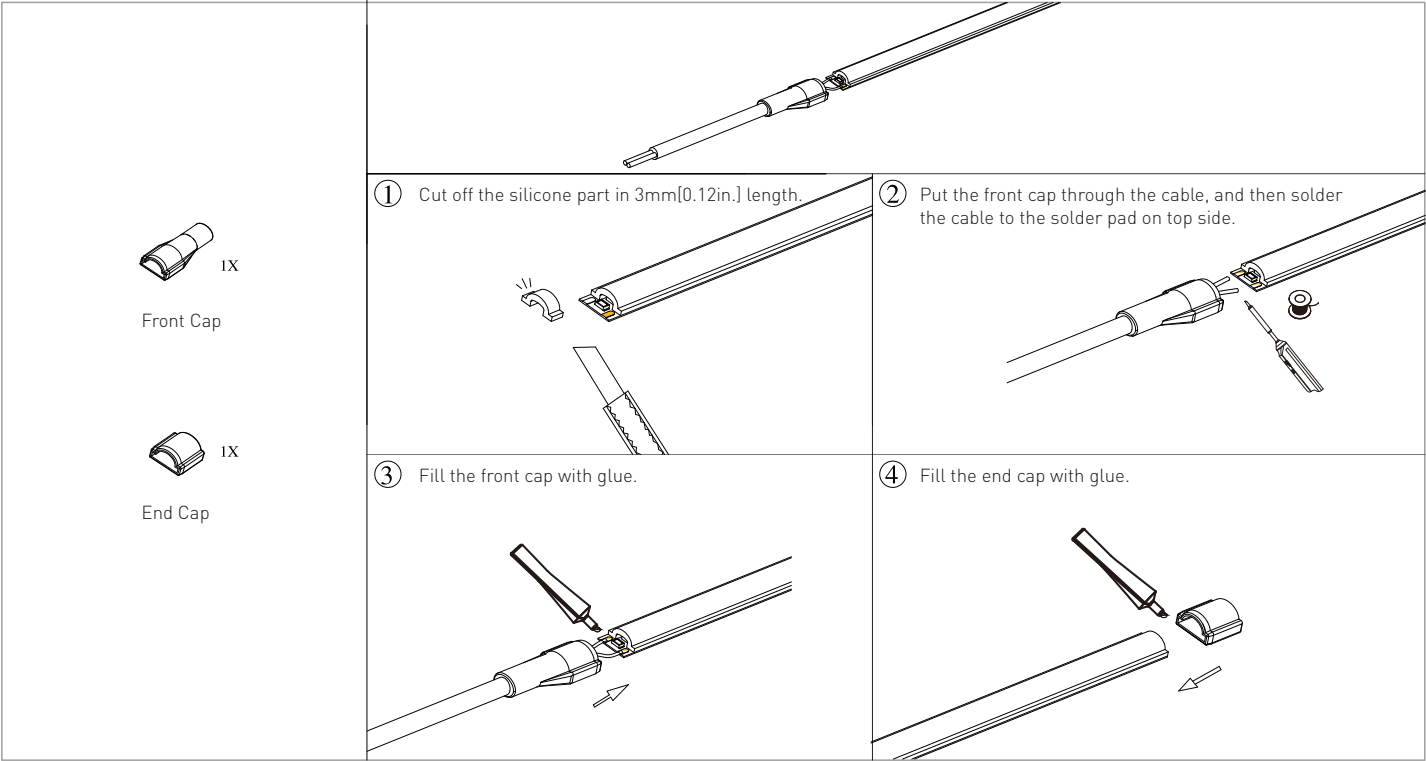
## General Characteristics

### (1) Cutting



Power off, and then cut the strip along the cutting line mark.  
Bending the strip upwards a little bit while cutting, will make the processing operation more simple and precise.

### (2) Assembly

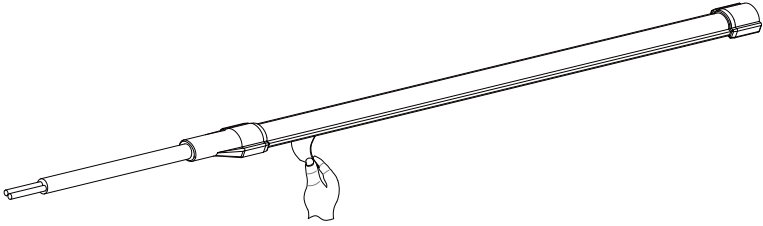


**1X**  
Front Cap

**1X**  
End Cap

- ① Cut off the silicone part in 3mm[0.12in.] length.
- ② Put the front cap through the cable, and then solder the cable to the solder pad on top side.
- ③ Fill the front cap with glue.
- ④ Fill the end cap with glue.

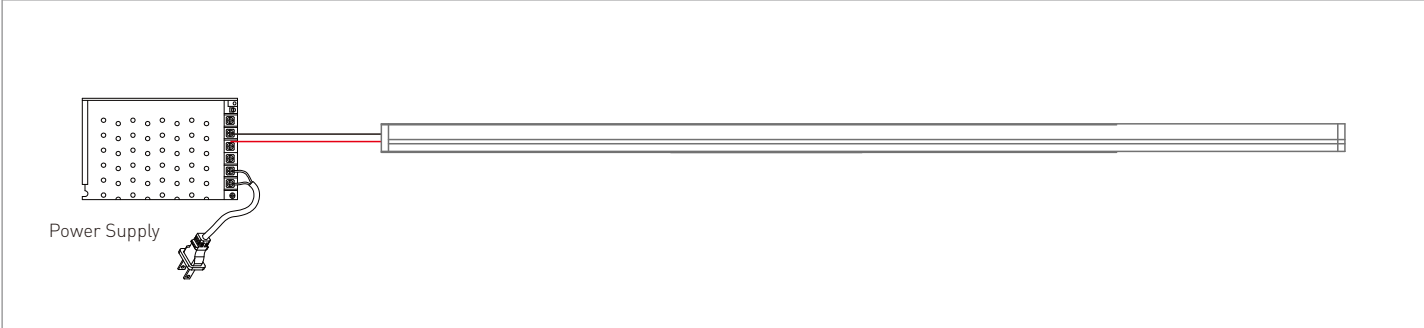
### (3) Installation



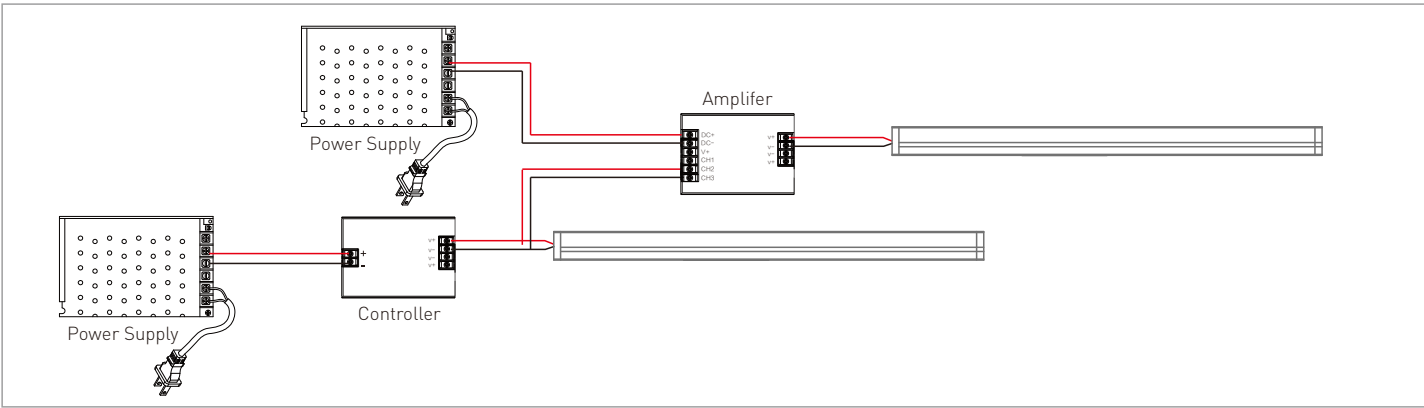
Peel off the 3M tape on bottom, and then attach to the mounting surface.

## Connection

### Non-dimmable Method

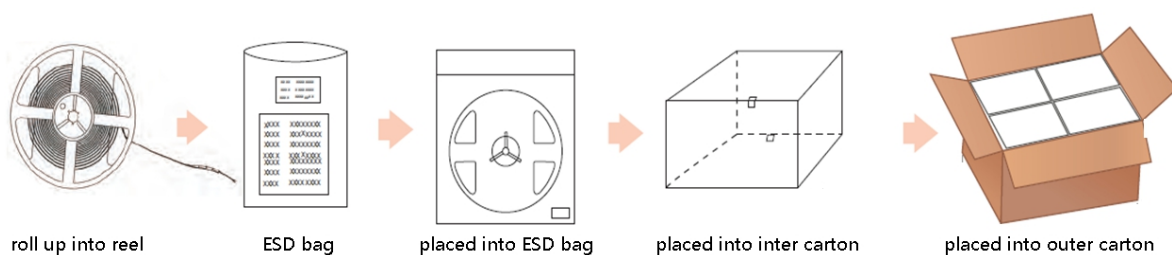


### Dimmable Method



# LED Strip Light

## Packing



Part No.	Product Dimension	Product N.W.	Reel Size	ESD Bag Size	Inner Carton Size	Outer Carton Size	Product QTY/ Inner Carton	Product QTY/ Outer Carton	Carton Total N.W.	Carton Total G.W.
NS-413 (GL-K2835XX-24-CV-304-720L)	L5000*W10*H4mm [L197*W0.39*H0.16in.]	0.19kg	D178*H12mm [D7*H0.47in.]	L215*W245mm [L8.46*W9.65in.]	L260*W220*H250mm [L10.2*W8.66*H9.84in.]	L540*W450*H265mm [L21.3*W17.7*H10.4in.]	16pcs	64pcs	14.5kg	16.5kg

## Notice

1. Adopt suitable power supply with power is 20% higher than the max. power of luminary, to ensure long time performance of power supply.
2. Do not install it when power is on. Before powering on, make sure the wiring is correct.
3. Avoid privately changing or damaging the circuit or other component on the luminary.
4. Avoid scrape, twist and irregular bend during installation, which might cause non repairable status for the luminary.
5. Minimum bending diameter definition, is 30mm[1.18in.], too small bending diameter will break the luminary.
6. Luminary linked in over long length will lead to problem of overload or uneven brightness.
7. To protect your eyes, do not stare at the luminary for a long time while it's illuminated.
8. Only professional personnel can install, dismantle and repair.

## Edition

Release Date	Issuance of Category
2020.04.10	The 1st. Version
2020.09.03	The 2nd. Version
2021.12.01	The 3rd. Version