

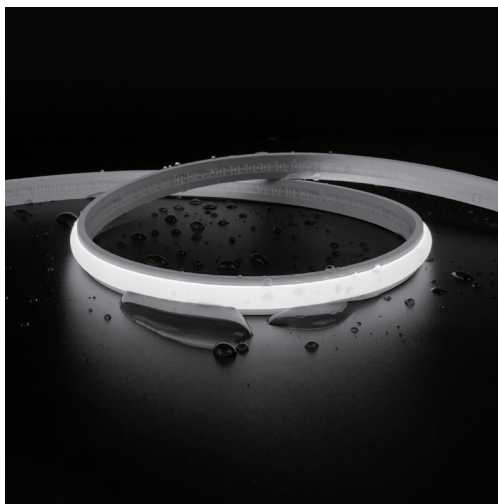


# Silicone neon strip

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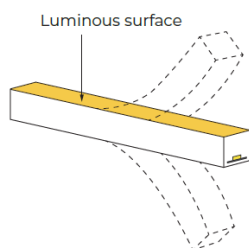
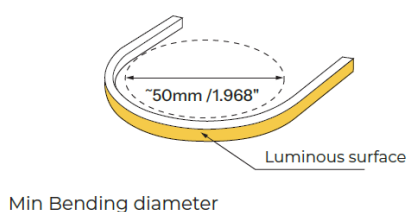
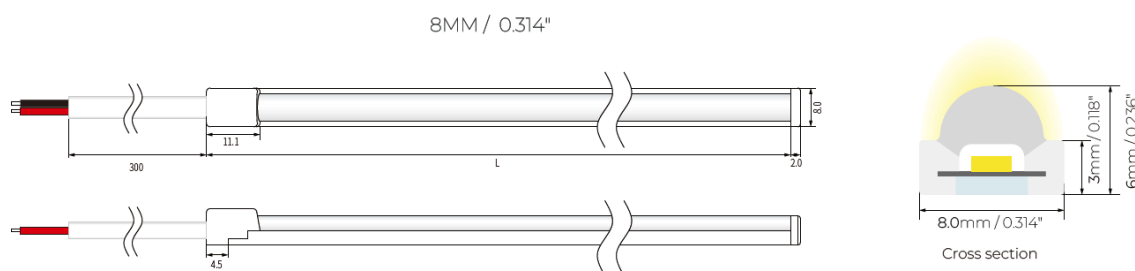
**VIVA COB 8**

**Product specification**



- It is made of Dow Chemical SILASTIC™ ET-7021 silicone rubber, which provides high transparency and high strength;
- Environmental protection grade silicone material, integrated extrusion molding process;
- Unique optical light distribution structure design, uniform lighting surface and no shadow;
- IP67 protection level, salt solution resistance, acids & alkalis and UV resistance;
- Excellent toughness, simple and stylish appearance, delicate and unique;
- 5 years warranty, working life  $\geq 50000$  hours.

## Dimensions Structure



Bend vertical only

## Electrical Parameters

| Voltage | LED PIN Temperature | Storage Temperature           | Ambient Temperature                    | RA        |
|---------|---------------------|-------------------------------|----------------------------------------|-----------|
| DC24V   | Max. 65°C / 149°F   | -25°C ~ 60°C<br>-13°F ~ 140°F | Min. -25°C / -13°F<br>Max(Table below) | $\geq 90$ |

## Specifications

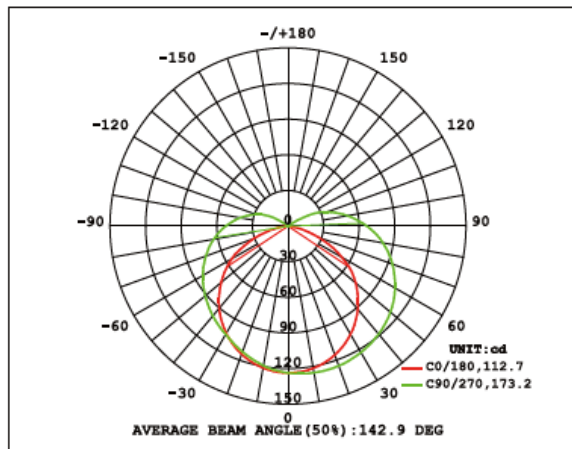
| Power(w/m - w/ft)  | Efficacy(lm/w)@4000K | Max Ambient Temperature |
|--------------------|----------------------|-------------------------|
| 10 w/m - 3.04 w/ft | 36lm/w               | 45°C / 113°F            |

Due to the tolerance of the production and electrical components, output value and electrical power can vary up to 10%

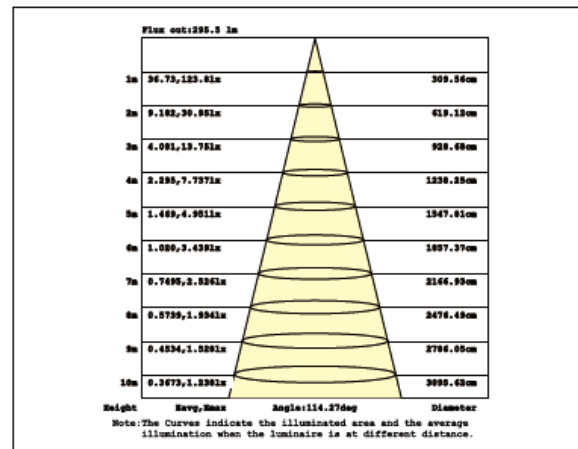
## Length Standard

| Length Range (M / ft)            | Integrated end cap | Tolerance                  |
|----------------------------------|--------------------|----------------------------|
| 0M < Strip(L) $\leq$ 5M / 16.4ft | L+8mm / L + 0.314" | $\pm 7$ mm / $\pm 0.275$ " |

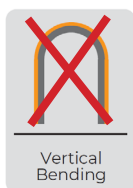
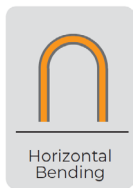
## Light Distribution Curve



## Illuminance curve



Note: The above data is based on 24V, 10W/M, single colour with 4000k colour temperature. If you need IES files for other types. Please contact our sales department.



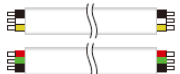
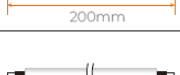
## Length Standard



| CCT(K)      | RA  | Voltage | Power (W) | Lumen (LM/M- LM/FT) | Efficiency (LM/W) | Unit Length (mm / inch) | Max. Run Length (M / ft) | CC/ CV |
|-------------|-----|---------|-----------|---------------------|-------------------|-------------------------|--------------------------|--------|
| 2700K ± 150 | ≥90 | DC24V   | 10        | 630 / 192.02        | 63                | 25 / 0.984"             | 5M / 16.4ft              | CV     |
| 3000K ± 150 | ≥90 | DC24V   | 10        | 660 / 201.16        | 66                | 25 / 0.984"             | 5M / 16.4ft              | CV     |
| 4000K ± 300 | ≥90 | DC24V   | 10        | 660 / 201.16        | 66                | 25 / 0.984"             | 5M / 16.4ft              | CV     |
| 5000K ± 400 | ≥90 | DC24V   | 10        | 660 / 201.16        | 66                | 25 / 0.984"             | 5M / 16.4ft              | CV     |
| 6500K ± 400 | ≥90 | DC24V   | 10        | 630 / 192.02        | 63                | 25 / 0.984"             | 5M / 16.4ft              | CV     |

- The maximum series length refers to the maximum single end power supply length of the constant current strip under the condition of standard 5m wire
- The given color temperature is the temperature of finished product.
- All products can be dimmed; the dimmer's voltage should conform to the rated voltage of the led light.
- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

## Cable

| Cable Type     | Schematic Diagram                                                                 | Specification                                   | Core                                                                              | Electrical Properties                        |
|----------------|-----------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------|
| Silicone Cable |  | 22AWG Red&Black 2-core Cable                    |  | Red V+, Black V-                             |
|                |  | 22AWG Black&White&Yellow 3-core Cable           |  | CCT Tunable:<br>Black V+, White W, Yellow WW |
|                |  | 22AWG Red&Green&Black 3-core Cable              |  | Pixel RGB:<br>Red V+, Green DI, Black GND    |
|                |  | 22AWG Black&Green&Red&Blue 4-core Cable         |  | Black V+, Green G, Red R, Blue B             |
|                |  | 22AWG Black&White&Blue&Green & Red 5-core Cable |  | Black V+, White W, Blue B, Green G, Red R    |

## Cable's Maximum load capacity

Cable with single-ended power supply, its maximum load power is as follows:

| Color        | Maximum load current (A) | DC24V Maximum load Power (W) | DC12V Maximum load Power (W) |
|--------------|--------------------------|------------------------------|------------------------------|
| Single color | 4.2                      | 100                          | 50                           |
| CCT Tunable  | 3.5                      | 84                           | 42                           |
| RGB          | 3                        | 72                           | 36                           |
| RGBW         | 3                        | 72                           | 36                           |
| Magic        | 3                        | 72                           | 36                           |

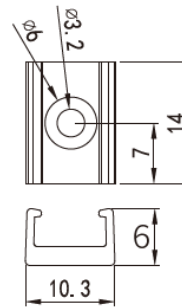
When one end of the single color led neon goes out, the power exceeds the wattage listed in the table, it is recommended to use integrated or silicone end cap

Mounting Way (Unit: mm and Inch")

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C8 Clip

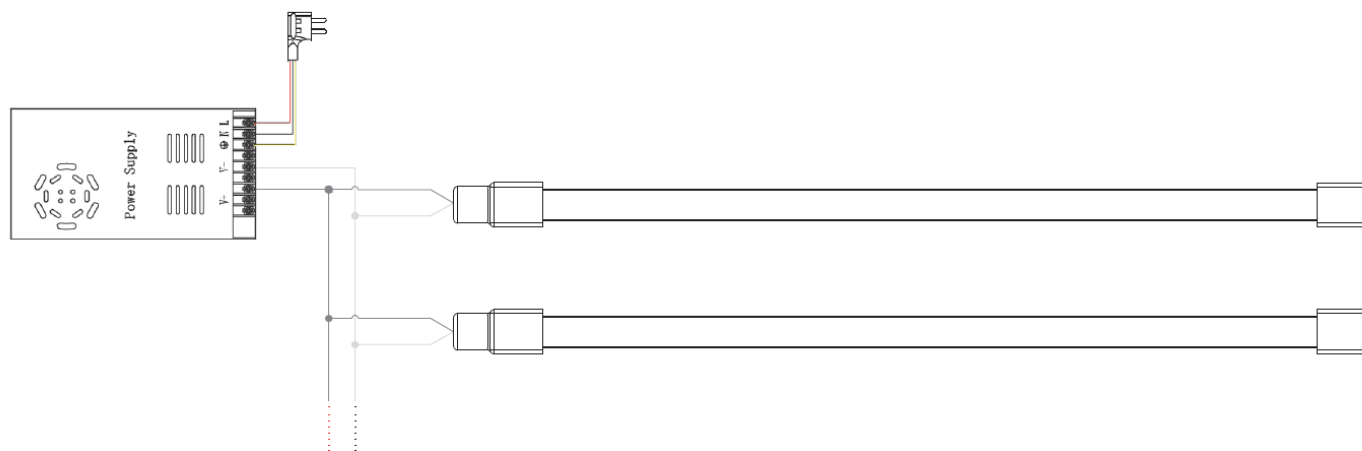
8MM



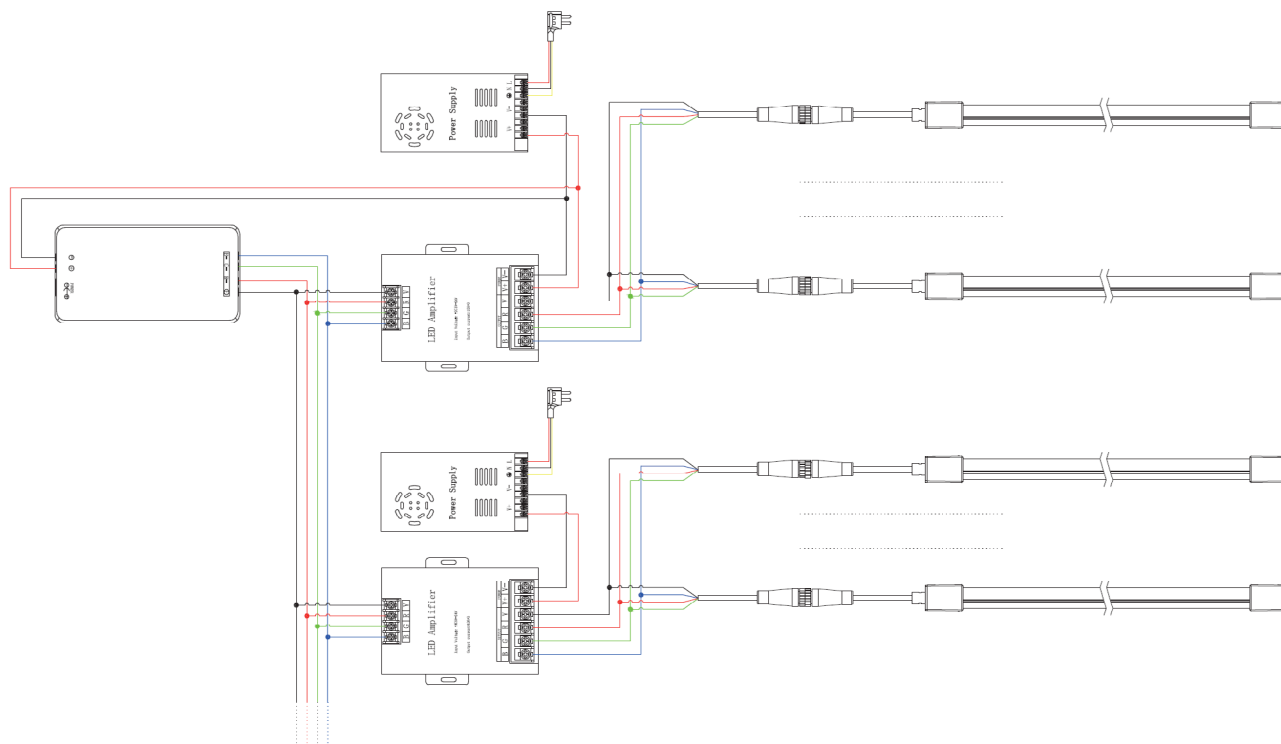
Dimension: :  
14x10.3x6mm  
0.551"x0.405"x0.236"

Accessories:  
PA 3X10 Self tapping screw

## Connection Diagram

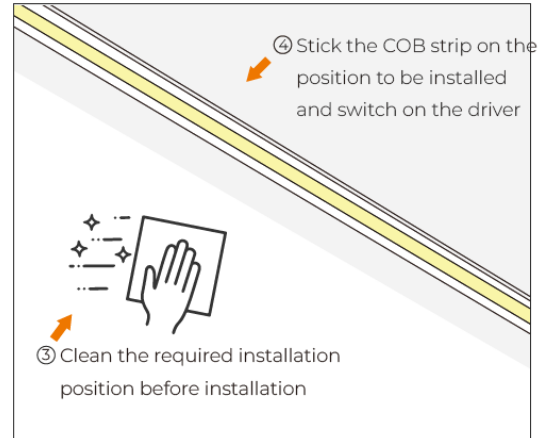
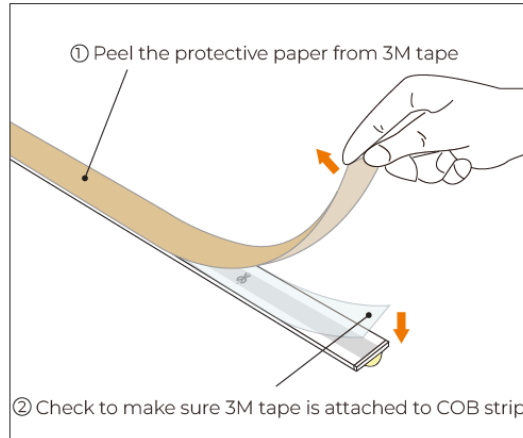


## RGB Connection Diagram

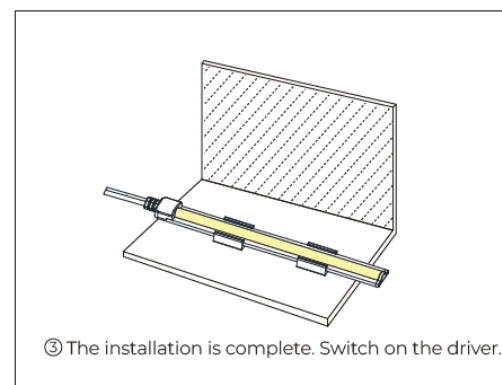
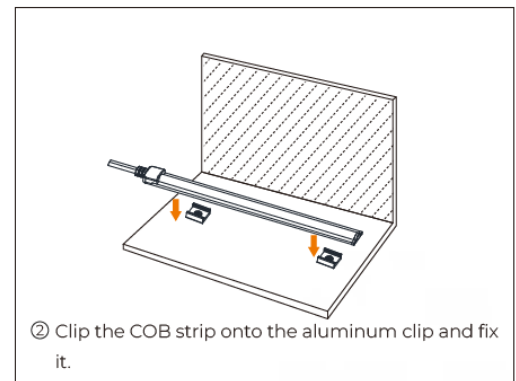
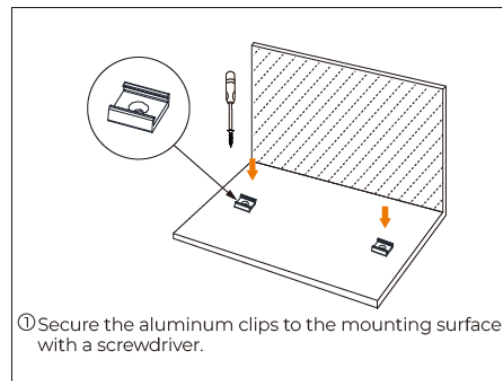


## Installation Diagram

### Installation with 3M tape

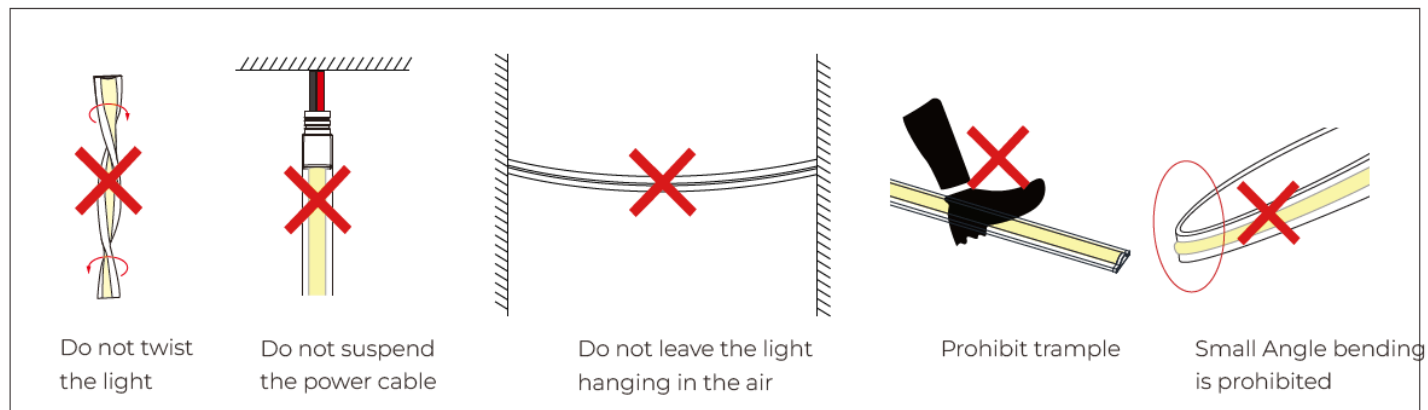


### Installation with aluminum clips



Cautions

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## Notes

The selection of the cable specification at the output end of the power supply, it depends on the total current of the load and the length of the cable. It is recommended to select according to the following table:

Specifications of the Cable

| Current of the light | L=1M         | L=2M         | L=4M  | L=6M  | L=8M  | L=10M | L=12M | L=14M | L=16M |
|----------------------|--------------|--------------|-------|-------|-------|-------|-------|-------|-------|
| 1A                   | <b>AWG26</b> | <b>AWG23</b> | AWG21 | AWG18 | AWG18 | AWG17 | AWG16 | AWG15 | AWG15 |
| 2A                   | <b>AWG23</b> | AWG21        | AWG18 | AWG16 | AWG15 | AWG14 | AWG13 | AWG12 | AWG12 |
| 3A                   | <b>AWG22</b> | AWG18        | AWG16 | AWG14 | AWG13 | AWG12 | AWG11 | AWG11 | AWG10 |
| 4A                   | <b>AWG21</b> | AWG18        | AWG15 | AWG13 | AWG12 | AWG11 | AWG10 | AWG9  | AWG9  |
| 5A                   | AWG20        | AWG17        | AWG14 | AWG12 | AWG11 | AWG10 | AWG9  | AWG9  | AWG8  |
| 6A                   | AWG18        | AWG16        | AWG13 | AWG11 | AWG10 | AWG9  | AWG8  | AWG8  | AWG7  |
| 7A                   | AWG18        | AWG15        | AWG12 | AWG11 | AWG9  | AWG8  | AWG8  | AWG7  | AWG6  |
| 8A                   | AWG17        | AWG15        | AWG12 | AWG10 | AWG9  | AWG8  | AWG7  | AWG7  | AWG6  |
| 9A                   | AWG17        | AWG14        | AWG11 | AWG10 | AWG8  | AWG7  | AWG7  | AWG6  | AWG5  |
| 10A                  | AWG16        | AWG14        | AWG11 | AWG9  | AWG8  | AWG7  | AWG6  | AWG6  | AWG5  |

- The unused light should be sealed with the packaging bag to avoid prolonged exposure.
- Please use DC24V isolated constant voltage power supply with ripple voltage less than 5%. Using other types of power supply may damage the light or cause other safety risks.
- In practical application, 20% allowance should be reserved for power supply to ensure the stability of power supply.
- It is recommended that professionals connect the power supply. Do not connect the power supply with live power to avoid electric shock.
- Please confirm whether the voltage of the power supply is consistent with the voltage of the light; Pay attention to the positive and negative poles of the power cord, do not connect wrong, so as not to cause product damage;
- When multiple power supplies are used, ensure that the positive poles of the power supply are not connected in parallel. Otherwise, the power supply system may be unstable or damaged after long-term operation.
- If the actual application length exceeds the specified length, it will lead to overload, heating and uneven brightness of the light.
- During installation, please do not scratch, twist, or bend the light irregularly. Otherwise, the light may be damaged beyond repair.
- To ensure the life and reliability of the light, please do not over bend the light, which will damage the product itself.
- To protect your eyes, please avoid staring at the glowing surface of the light for a long time.
- Non-professionals are forbidden to install, disassemble and maintain the product.
- Do not use any acid or alkaline adhesive to fix the light (including but not limited to glass glue, etc.)
- IP67 products are not suitable for long-term immersion in water; IP68 products are only customized by the factory. After cutting and processing by users themselves, there is a risk that IP68 protection level cannot be reached
- Because of the difference in structure, even if the same color temperature value, different sizes of light will look slightly different colors. Please confirm it before use.