

# SILICONE LED NEON LIGHT

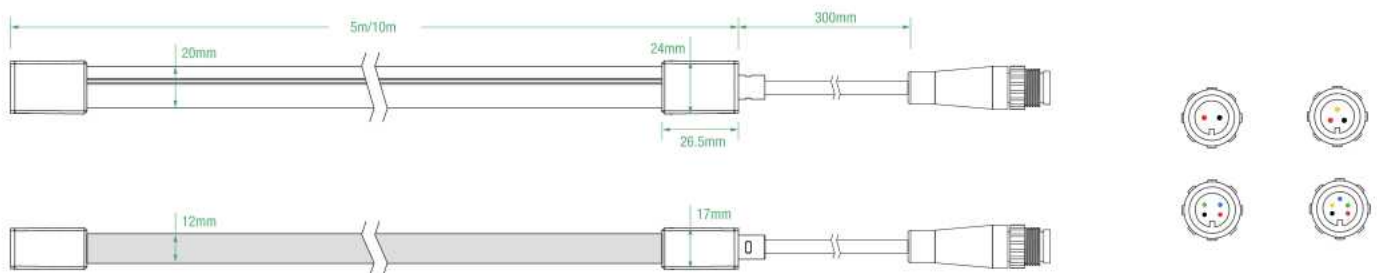
**Model:HL-N1220V24-Cxx**



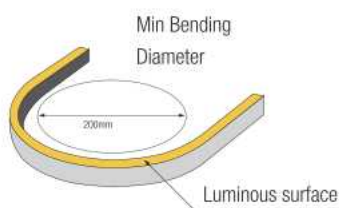
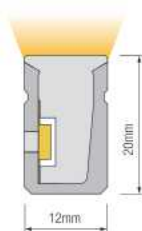


High light transmittance, environmental protection grade silicone material, integrated extrusion molding process. Unique optical light distribution structure design, uniform lighting surface and no shadow. IP67 protection level, salt solution resistance, acids & alkalis, corrosive gases, fire and UV. Excellent toughness, simple and stylish appearance, delicate and unique. 5 years warranty.

## Dimension structure



Across section  
size's picture



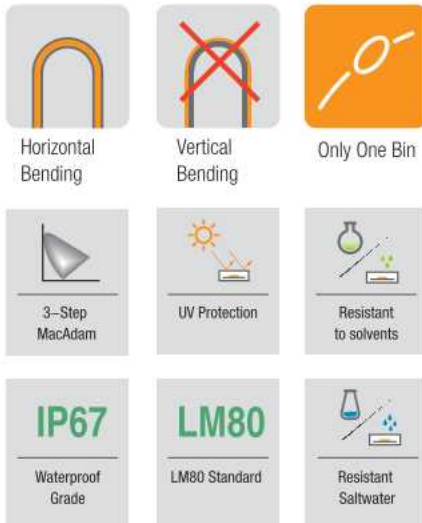
## Electrical Parameter

|                     |                              |  |  |
|---------------------|------------------------------|--|--|
| Voltage             | DC24V                        |  |  |
| LED PIN Temperature | Max. 65 °C                   |  |  |
| Working Temperature | -25 °C ~ 60 °C               |  |  |
| Ambient Temperature | Min. -25°C, Max(Table below) |  |  |
| CRI                 | Ra80/Ra90 Optional           |  |  |

## Specification

| Power                   | 5w/m     | 10w/m    | 15w/m    |
|-------------------------|----------|----------|----------|
| Efficacy@4000K          | 34.0lm/W | 33.6lm/W | 31.3lm/W |
| Max Ambient Temperature | 50 °C    | 45 °C    | 35 °C    |

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



## Various Connections

Use three kinds of entry cable, to meet the different installing request



| Finished CCT (K) | Unit cut (mm) | CRI | Power (W) | Lumen (LM/m) | Efficacy (LM/w) | Max.run length(m) | CC/CV |
|------------------|---------------|-----|-----------|--------------|-----------------|-------------------|-------|
| ● 2100 ±100      | 50            | >90 | 5         | 131.7        | 26.3            | 5                 | CC/CV |
|                  |               |     | 10        | 258.7        | 25.9            |                   |       |
|                  |               |     | 15        | 360.9        | 24.1            |                   |       |
| ● 2400 ±100      | 50            | >90 | 5         | 150.4        | 30.1            | 5                 | CC/CV |
|                  |               |     | 10        | 293          | 29.3            |                   |       |
|                  |               |     | 15        | 410.1        | 27.3            |                   |       |
| ● 2700 ±100      | 50            | >90 | 5         | 152.7        | 30.5            | 5                 | CC/CV |
|                  |               |     | 10        | 303.2        | 30.3            |                   |       |
|                  |               |     | 15        | 431.7        | 28.8            |                   |       |
| ● 3000 ±100      | 50            | >90 | 5         | 156.7        | 31.3            | 5                 | CC/CV |
|                  |               |     | 10        | 307.2        | 30.7            |                   |       |
|                  |               |     | 15        | 432.3        | 28.8            |                   |       |
| ● 3500 +200 -100 | 50            | >90 | 5         | 176.9        | 35.4            | 5                 | CC/CV |
|                  |               |     | 10        | 345.1        | 34.5            |                   |       |
|                  |               |     | 15        | 475.4        | 31.7            |                   |       |
| ● 4000 +300 -200 | 50            | >90 | 5         | 170.1        | 34.0            | 5                 | CC/CV |
|                  |               |     | 10        | 335.6        | 33.6            |                   |       |
|                  |               |     | 15        | 470.1        | 31.3            |                   |       |
| ● 5000 +300 -200 | 50            | >90 | 5         | 170          | 34.0            | 5                 | CC/CV |
|                  |               |     | 10        | 329.4        | 32.9            |                   |       |
|                  |               |     | 15        | 461.8        | 30.8            |                   |       |
| ● 6000 +300 -100 | 50            | >90 | 5         | 168.2        | 33.6            | 5                 | CC/CV |
|                  |               |     | 10        | 328.3        | 32.8            |                   |       |
|                  |               |     | 15        | 465.1        | 31.0            |                   |       |
| ● TW             | 50            | >90 | 2.5       | 80.2         | 32.1            | 5                 | CV    |
|                  |               |     | 2.5       | 85.6         | 34.2            |                   |       |
|                  |               |     | 5         | 167.4        | 33.5            |                   |       |
| ● TW             | 50            | >90 | 5         | 171.3        | 34.3            | 5                 | CV    |
|                  |               |     | 5         | 186          | 37.2            |                   |       |
|                  |               |     | 10        | 353.5        | 35.4            |                   |       |
| ● TW             | 50            | >90 | 7.5       | 229          | 30.5            | 5                 | CV    |
|                  |               |     | 7.5       | 244.3        | 32.6            |                   |       |
|                  |               |     | 15        | 476.3        | 31.8            |                   |       |
| ● R              | 50            | --  | 5         | 73.8         | 14.8            | 5                 | CC/CV |
|                  |               |     | 10        | 155.4        | 15.5            |                   |       |
|                  |               |     | 15        | 204.7        | 13.6            |                   |       |
| ● G              | 50            | --  | 5         | 198.2        | 39.6            | 5                 | CC/CV |
|                  |               |     | 10        | 372.6        | 37.3            |                   |       |
|                  |               |     | 15        | 473.2        | 31.5            |                   |       |
| ● B              | 50            | --  | 5         | 35.2         | 7.0             | 5                 | CC/CV |
|                  |               |     | 10        | 69.8         | 7.0             |                   |       |
|                  |               |     | 15        | 93.3         | 6.2             |                   |       |
| ● Yellow         | 50            | --  | 5         | 15.5         | 3.1             | 5                 | CC/CV |
|                  |               |     | 10        | 30.4         | 3.0             |                   |       |
|                  |               |     | 15        | 40.8         | 2.7             |                   |       |
| ● Pink           | 50            | --  | 5         | 74.6         | 14.9            | 5                 | CC/CV |
|                  |               |     | 10        | 148.2        | 14.8            |                   |       |
|                  |               |     | 15        | 199          | 13.3            |                   |       |
| ● Orange         | 50            | --  | 5         | 60           | 12              | 5                 | CC/CV |
|                  |               |     | 10        | 110          | 11              |                   |       |
|                  |               |     | 15        | 160          | 11              |                   |       |

- TW: Tunable white, CRI80
- Max series length refers to single side feed
- The above color temperature is the finished-product color temperature.
- The given data are typical values due to the tolerance of the production and electrical components, output value and electrical power can vary up to 10%
- Please don't walk on it without protection.

| Power (W) | Finished CCT (K)                                                                                   | Lumen (LM/m) | Efficacy (LM/w) | Unit cut (mm) | Max.run length(m) | CV/CC |
|-----------|----------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|-------------------|-------|
| 5         |  R                | 26.5         | 15.6            | 62.5          | 5                 | CV    |
|           |  G                | 75.3         | 44.3            |               |                   |       |
|           |  B                | 15.6         | 9.2             |               |                   |       |
|           |  RGB              | 86.1         | 17.2            |               |                   |       |
| 10        |  R                | 35.8         | 10.8            | 62.5          | 5                 | CV    |
|           |  G                | 107.2        | 32.5            |               |                   |       |
|           |  B                | 22.1         | 6.7             |               |                   |       |
|           |  RGB              | 160.2        | 16.0            |               |                   |       |
| 15        |  R                | 50           | 10.0            | 62.5          | 5                 | CV    |
|           |  G                | 120.8        | 24.2            |               |                   |       |
|           |  B                | 25           | 5.0             |               |                   |       |
|           |  RGB              | 200.3        | 13.4            |               |                   |       |
| 5         |  R                | 18           | 14.4            | 62.5          | 5                 | CV    |
|           |  G                | 75           | 60.0            |               |                   |       |
|           |  B                | 18           | 14.4            |               |                   |       |
|           |  W (5000-5600K)   | 74           | 59.2            |               |                   |       |
|           |  RGBW            | 190          | 38.0            |               |                   |       |
| 10        |  R              | 32           | 12.8            | 62.5          | 5                 | CV    |
|           |  G              | 143          | 57.2            |               |                   |       |
|           |  B              | 34           | 13.6            |               |                   |       |
|           |  W (5000-5600K) | 158          | 63.2            |               |                   |       |
|           |  RGBW           | 366          | 36.6            |               |                   |       |
| 15        |  R              | 53           | 14.1            | 62.5          | 5                 | CV    |
|           |  G              | 166          | 44.3            |               |                   |       |
|           |  B              | 45           | 12.0            |               |                   |       |
|           |  W (5000-5600K) | 210          | 56.0            |               |                   |       |
|           |  RGBW           | 496          | 33.1            |               |                   |       |
| 5         |  R              | 18           | 15.2            | 62.5          | 5                 | CV    |
|           |  G              | 75           | 60.8            |               |                   |       |
|           |  B              | 18           | 15.2            |               |                   |       |
|           |  W (3400-4000K) | 74           | 62.4            |               |                   |       |
|           |  RGBW           | 190          | 38.6            |               |                   |       |
| 10        |  R              | 32           | 13.2            | 62.5          | 5                 | CV    |
|           |  G              | 143          | 56.0            |               |                   |       |
|           |  B              | 34           | 14.0            |               |                   |       |
|           |  W (3400-4000K) | 158          | 67.6            |               |                   |       |
|           |  RGBW           | 366          | 37.4            |               |                   |       |
| 15        |  R              | 53           | 14.7            | 62.5          | 5                 | CV    |
|           |  G              | 166          | 45.6            |               |                   |       |
|           |  B              | 45           | 11.7            |               |                   |       |
|           |  W (3400-4000K) | 210          | 59.5            |               |                   |       |
|           |  RGBW           | 496          | 33.6            |               |                   |       |

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- Max series length refers to single side feed
- The above color temperature is the finished-product color temperature.
- The given data are typical values due to the tolerance of the production and electrical components, output value and electrical power can vary up to 10%
- Please don't walk on it without protection.

| Power (W) | Finished CCT (K)                                                                                   | Lumen (LM/m) | Efficacy (LM/w) | Unit cut (mm) | Max.run length(m) | CW/CC |
|-----------|----------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|-------------------|-------|
| 5         |  R                | 18           | 14.4            | 62.5          | 5                 | CV    |
|           |  G                | 78           | 62.4            |               |                   |       |
|           |  B                | 19           | 15.2            |               |                   |       |
|           |  W (2400-3000K)   | 72           | 57.6            |               |                   |       |
|           |  RGBW             | 188          | 37.6            |               |                   |       |
| 10        |  R                | 34           | 13.6            | 62.5          | 5                 | CV    |
|           |  G                | 138          | 55.2            |               |                   |       |
|           |  B                | 35           | 14.0            |               |                   |       |
|           |  W (2400-3000K)   | 158          | 63.2            |               |                   |       |
|           |  RGBW             | 358          | 35.8            |               |                   |       |
| 15        |  R                | 55           | 14.7            | 62.5          | 5                 | CV    |
|           |  G                | 172          | 45.9            |               |                   |       |
|           |  B                | 49           | 13.1            |               |                   |       |
|           |  W (2400-3000K)   | 207          | 55.2            |               |                   |       |
|           |  RGBW             | 500          | 33.3            |               |                   |       |
| 5         |  R                | 19           | 15.2            | 62.5          | 5                 | CV    |
|           |  G                | 77           | 61.6            |               |                   |       |
|           |  B                | 18           | 14.4            |               |                   |       |
|           |  W (2400-3000K)   | 69           | 55.2            |               |                   |       |
|           |  RGBW           | 182          | 36.4            |               |                   |       |
| 10        |  R              | 32           | 12.8            | 62.5          | 5                 | CV    |
|           |  G              | 135          | 54.0            |               |                   |       |
|           |  B              | 31           | 12.4            |               |                   |       |
|           |  W (2400-3000K) | 145          | 58.0            |               |                   |       |
|           |  RGBW           | 337          | 33.7            |               |                   |       |
| 15        |  R              | 55           | 14.7            | 62.5          | 5                 | CV    |
|           |  G              | 157          | 41.9            |               |                   |       |
|           |  B              | 42           | 11.2            |               |                   |       |
|           |  W (2400-3000K) | 191          | 50.9            |               |                   |       |
|           |  RGBW           | 466          | 31.1            |               |                   |       |

## Mounting Way



Stainless Steel Mounting clips  
12.8\*18.9\*20mm



Aluminium Mounting clips  
17.5\*22.9\*20mm



Aluminium Profile  
17.5\*22.9\*1000mm

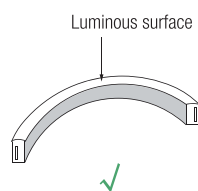
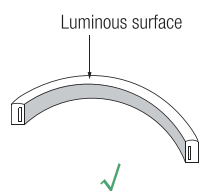
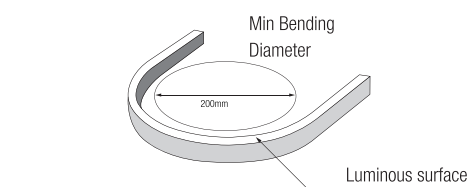


Flexible profile  
13.5\*18\*1000mm

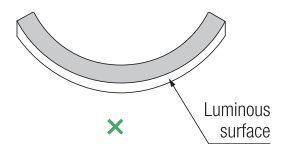
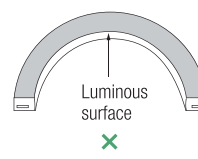
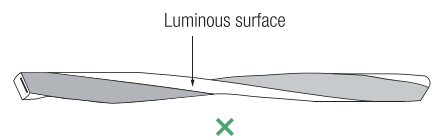


Suspension Installation

## Bending Diagram



Correct Bending

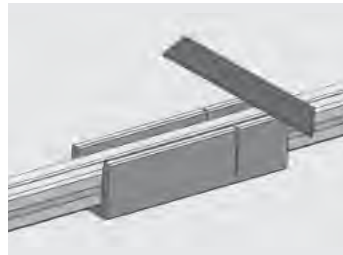


Wrong Bending

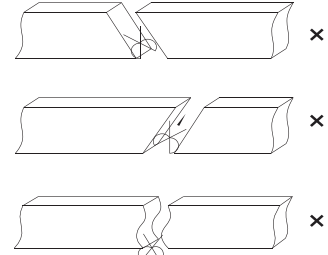
## End Cap's Fast Installation Process



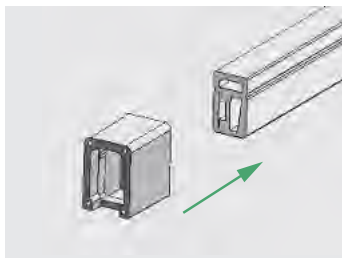
Remark: The bottom of the led strip has transparent window, the black marker is the cutting position



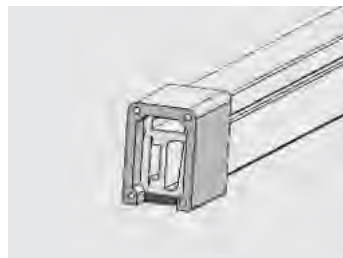
Use a cutting jig, vertical cutting precisely in the exact cutting position of led strip.



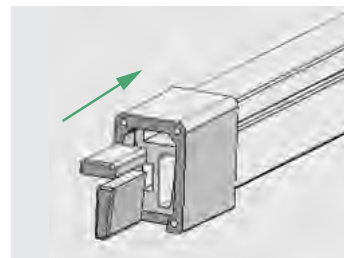
Please don't be feel free to cut and cut into an oblique angle or cambered section.



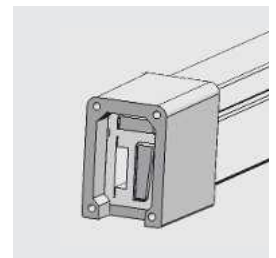
Insert the transparent PC shell into the led strip, insert in to the limit.



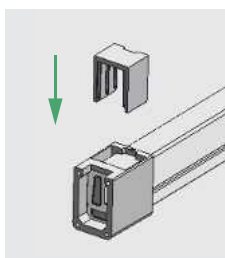
Its window is at the bottom of the led strips for all the front cable entry, side cable entry and bottom cable entry



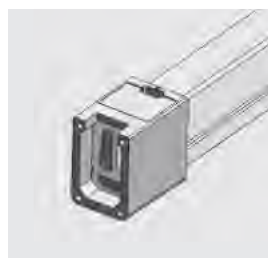
Stuff the plug into the holes corresponding to the led strip



Effect diagram of the finished assembly

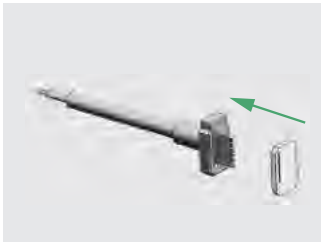


Insert the stopper into the PC shell



Effect diagram of the stopper assembly completed

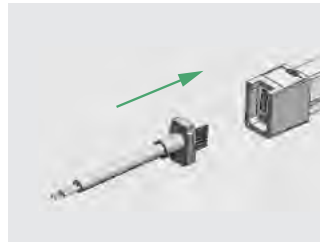
## End Cap's Fast Installation Process



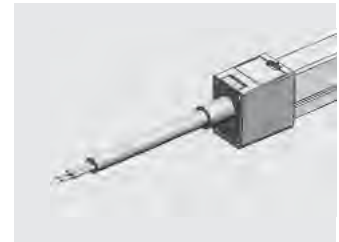
Put the waterproof washer into the plug



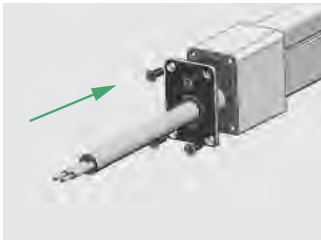
Effect diagram of the waterproof washer assembly completed



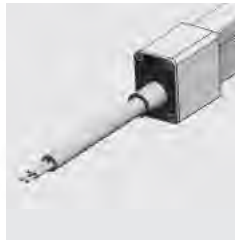
Insert the plug with the waterproof washer into the LED strip, and the Pin insert between FPC and transparent PET.



Effect diagram of the plug finished assembly completed



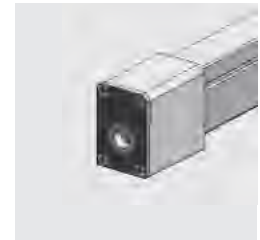
Fix the hardware on the PC shell with 4pcs screws, close to the PC shell, completed assembly



Effect diagram of the metal plate assembly completed

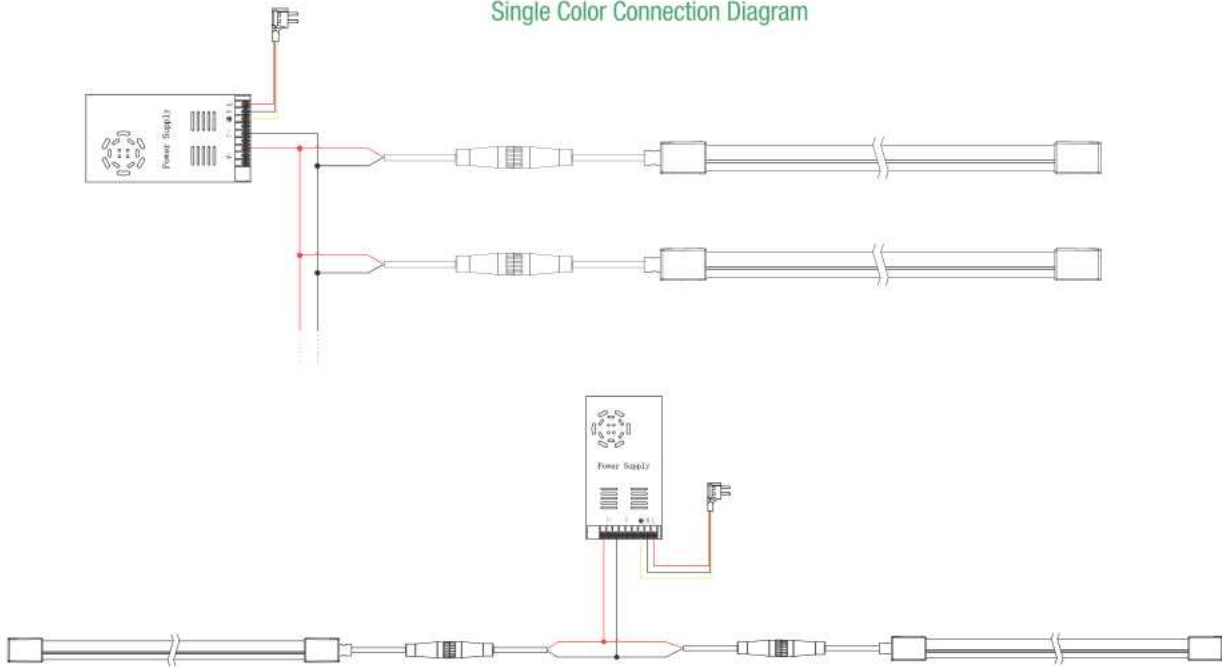


End cap's installation diagram

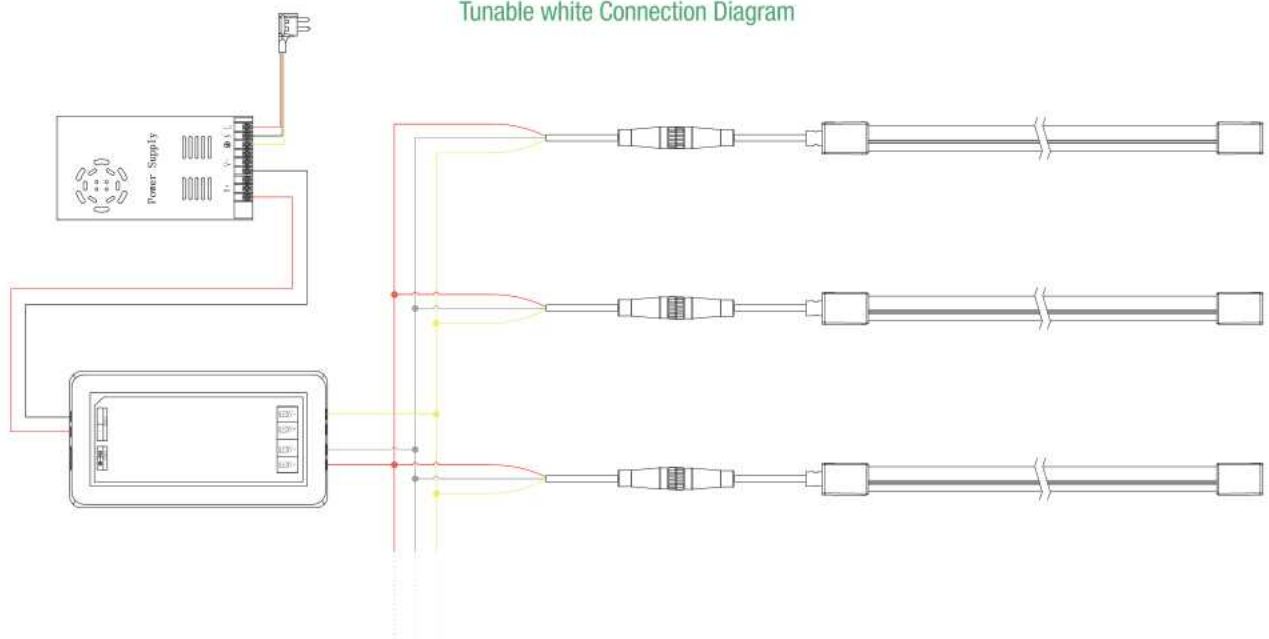


Effect diagram of the metal plate assembly completed

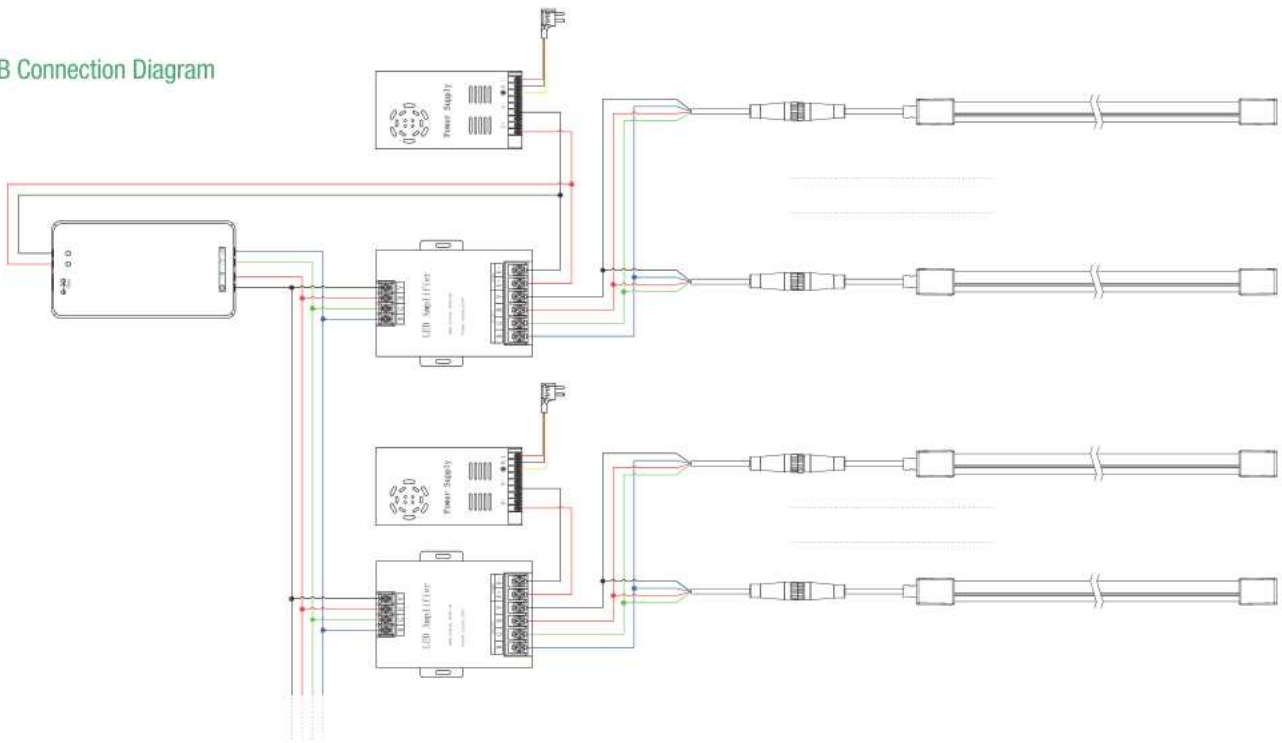
Single Color Connection Diagram



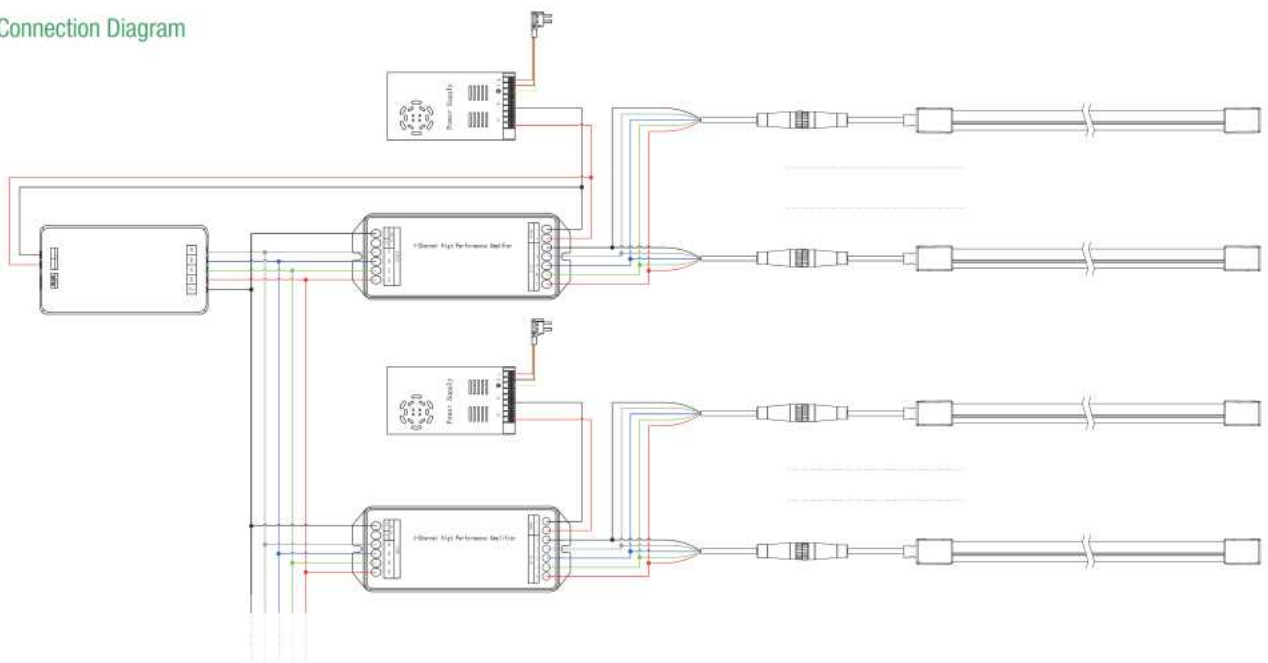
Tunable white Connection Diagram



RGB Connection Diagram



RGBW Connection Diagram



H E L I A N

**Specialized  
LED strip  
Manufacturer**

**Shenzhen Helian Electronics Co.,Ltd**



3F, Tonggao building 2, Sanlian industrial area, Songbai Rd, Shiyan Town, Bao'an District, Shenzhen, Guangdong, China



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