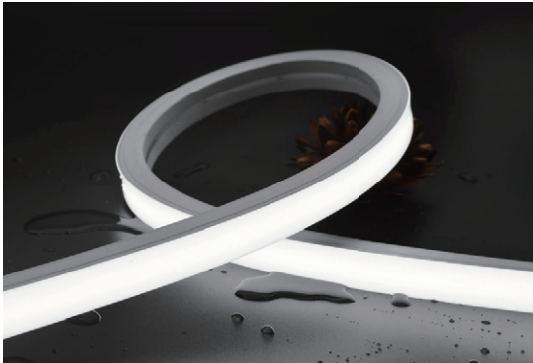


# SILICONE NEON STRIP

HL-N3020V24-Cxx

Top view

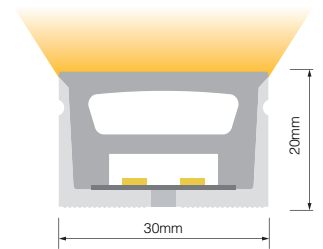
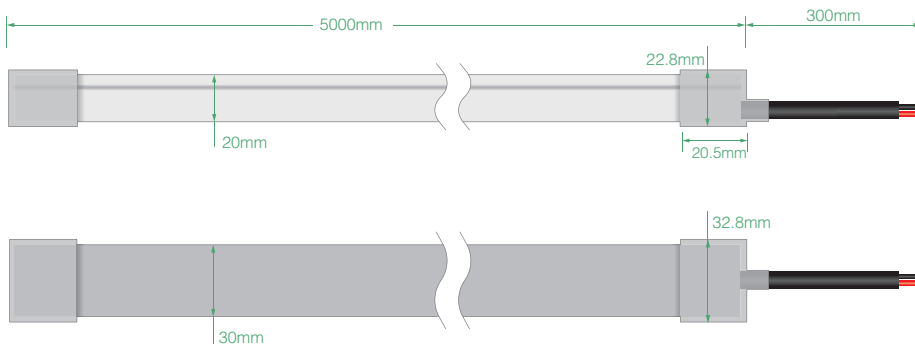




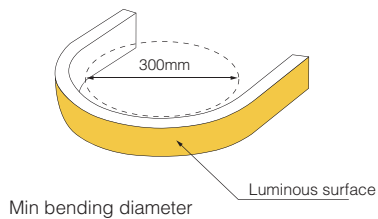
## Model: HL-N3020V24-Cxx

- 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.

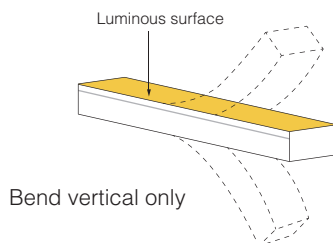
## Dimension structure



Across section size's picture



Min bending diameter



Bend vertical only

## Electrical Parameter

|                     |                              |
|---------------------|------------------------------|
| Voltage             | DC24V                        |
| LED PIN Temperature | Max. 65°C                    |
| Storage Temperature | -25°C ~ 60°C                 |
| Ambient Temperature | Min.-25°C , Max(Table below) |
| CRI                 | >90                          |

## Specification

|                         |          |        |         |
|-------------------------|----------|--------|---------|
| Power                   | 16w/m    | 20w/m  | 24w/m   |
| Efficacy@4000K          | 65.6lm/w | 64lm/w | 63 lm/w |
| Max Ambient Temperature | 55°C     | 45°C   | 35°C    |

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



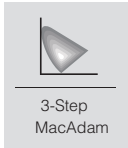
Horizontal Bending



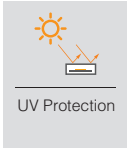
Vertical Bending



Only One Bin



3-Step MacAdam



UV Protection



Resistant to solvents



IP67

Waterproof Grade



LM80

LM80 Standard



Resistant Saltwater

- TW: Tunable white, Testing CCT: 2700K+5400K
- 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.

| Finished CCT( K)                       | Unit cut (mm) | CRI | Power (W) | Lumen (LM/m) | Efficacy (LM/w) | Max.run length(m) | CV/CC |
|----------------------------------------|---------------|-----|-----------|--------------|-----------------|-------------------|-------|
| ● 2100±100                             | 50            | >90 | 16        | 836.9        | 52.3            | 5                 | CC/CV |
|                                        |               |     | 20        | 1017         | 50.9            | 5                 |       |
|                                        |               |     | 24        | 1196         | 49.8            | 5                 |       |
| ● 2400±100                             | 50            | >90 | 16        | 855.5        | 53.5            | 5                 | CC/CV |
|                                        |               |     | 20        | 1040.6       | 52.0            | 5                 |       |
|                                        |               |     | 24        | 1226         | 51.1            | 5                 |       |
| ● 2700±100                             | 50            | >90 | 16        | 991          | 61.9            | 5                 | CC/CV |
|                                        |               |     | 20        | 1209.6       | 60.5            | 5                 |       |
|                                        |               |     | 24        | 1426         | 59.4            | 5                 |       |
| ● 3000±100                             | 50            | >90 | 16        | 1001         | 62.6            | 5                 | CC/CV |
|                                        |               |     | 20        | 1222         | 61.1            | 5                 |       |
|                                        |               |     | 24        | 1439         | 60.0            | 5                 |       |
| ● 3500 <sup>+200</sup> <sub>-100</sub> | 50            | >90 | 16        | 925.7        | 57.9            | 5                 | CC/CV |
|                                        |               |     | 20        | 1129.4       | 56.5            | 5                 |       |
|                                        |               |     | 24        | 1333         | 55.5            | 5                 |       |
| ● 4000 <sup>+300</sup> <sub>-200</sub> | 50            | >90 | 16        | 1050         | 65.6            | 5                 | CC/CV |
|                                        |               |     | 20        | 1280         | 64.0            | 5                 |       |
|                                        |               |     | 24        | 1511         | 63.0            | 5                 |       |
| ● 5000 <sup>+300</sup> <sub>-200</sub> | 50            | >90 | 16        | 1067         | 66.7            | 5                 | CC/CV |
|                                        |               |     | 20        | 1298         | 64.9            | 5                 |       |
|                                        |               |     | 24        | 1534         | 63.9            | 5                 |       |
| ● 6000 <sup>+300</sup> <sub>-100</sub> | 50            | >90 | 16        | 962.6        | 60.2            | 5                 | CC/CV |
|                                        |               |     | 20        | 1176         | 58.8            | 5                 |       |
|                                        |               |     | 24        | 1390         | 57.9            | 5                 |       |
| ● TW                                   | 41.66         | >90 | ● 8       | 500.5        | 62.6            | 5                 | CV    |
|                                        |               |     | ● 8       | 528.5        | 66.1            | 5                 |       |
|                                        |               |     | ● 16      | 1008         | 63.0            | 5                 |       |
| ● TW                                   | 41.66         | >90 | ● 10      | 609.7        | 61.0            | 5                 | CV    |
|                                        |               |     | ● 10      | 651.1        | 65.1            | 5                 |       |
|                                        |               |     | ● 20      | 1232.8       | 61.6            | 5                 |       |
| ● TW                                   | 41.66         | >90 | ● 12      | 722.2        | 60.2            | 5                 | CV    |
|                                        |               |     | ● 12      | 769.5        | 64.1            | 5                 |       |
|                                        |               |     | ● 24      | 1457         | 60.7            | 5                 |       |
| ● R                                    | 50            | --  | 16        | 435.4        | 27.2            | 5                 | CC/CV |
|                                        |               |     | 20        | 530          | 26.5            | 5                 |       |
|                                        |               |     | 24        | 617.5        | 25.7            | 5                 |       |
| ● G                                    | 50            | --  | 16        | 1071         | 66.9            | 5                 | CC/CV |
|                                        |               |     | 20        | 1243         | 62.2            | 5                 |       |
|                                        |               |     | 24        | 1445         | 60.2            | 5                 |       |
| ● B                                    | 50            | --  | 16        | 221.7        | 13.9            | 5                 | CC/CV |
|                                        |               |     | 20        | 268.2        | 13.4            | 5                 |       |
|                                        |               |     | 24        | 314.3        | 13.1            | 5                 |       |
| ● Amber                                | 50            | --  | 16        | 352.8        | 22.1            | 5                 | CC/CV |
|                                        |               |     | 20        | 338          | 16.9            | 5                 |       |
|                                        |               |     | 24        | 367.8        | 15.3            | 5                 |       |
| ● Pink                                 | 50            | --  | 16        | 431.3        | 27.0            | 5                 | CC/CV |
|                                        |               |     | 20        | 518.8        | 25.9            | 5                 |       |
|                                        |               |     | 24        | 613.2        | 25.6            | 5                 |       |

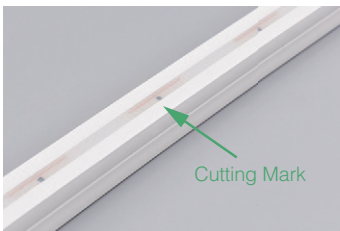
- TW: Tunable white, Testing CCT: 2700K+5400K
- Max series length refers to single side feed
- The above color temperature is the finished-product color temperature.
- The given data are typical values due to the tolerance of the production and electrical components, output value and electrical power 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 |
|-----------|----------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|-------------------|-------|
| 16        |  R                | 108.1        | 20.2            | 41.66         | 5                 | CV    |
|           |  G                | 305.4        | 57.2            |               |                   |       |
|           |  B                | 56.26        | 10.5            |               |                   |       |
|           |  RGB              | 461.3        | 28.8            |               |                   |       |
| 20        |  R                | 133.4        | 20              | 41.66         | 5                 | CV    |
|           |  G                | 354          | 51.3            |               |                   |       |
|           |  B                | 69.4         | 10.4            |               |                   |       |
|           |  RGB              | 536          | 26.8            |               |                   |       |
| 24        |  R                | 158.4        | 19.8            | 41.66         | 5                 | CV    |
|           |  G                | 400.8        | 50.1            |               |                   |       |
|           |  B                | 78.73        | 9.8             |               |                   |       |
|           |  RGB              | 614          | 25.6            |               |                   |       |
| 16        |  R                | 68.77        | 17.2            | 41.66         | 5                 | CV    |
|           |  G                | 218.1        | 54.5            |               |                   |       |
|           |  B                | 53.48        | 13.4            |               |                   |       |
|           |  W (5000-5800K)   | 250          | 62.5            |               |                   |       |
|           |  RGBW            | 591.3        | 37              |               |                   |       |
| 20        |  R              | 88.1         | 17.6            | 41.66         | 5                 | CV    |
|           |  G              | 255.9        | 51.2            |               |                   |       |
|           |  B              | 65.5         | 13.1            |               |                   |       |
|           |  W (5000-5800K) | 313.1        | 62.6            |               |                   |       |
|           |  RGBW           | 719.8        | 36              |               |                   |       |
| 24        |  R              | 101.6        | 16.9            | 41.66         | 5                 | CV    |
|           |  G              | 290.8        | 48.5            |               |                   |       |
|           |  B              | 78.67        | 13.1            |               |                   |       |
|           |  W (5000-5800K) | 371.4        | 61.9            |               |                   |       |
|           |  RGBW           | 840.7        | 35              |               |                   |       |
| 16        |  R              | 72.8         | 18.2            | 41.66         | 5                 | CV    |
|           |  G              | 216.2        | 54.1            |               |                   |       |
|           |  B              | 49.54        | 12.4            |               |                   |       |
|           |  W (3400-4000K) | 259          | 64.8            |               |                   |       |
|           |  RGBW           | 588.5        | 36.8            |               |                   |       |
| 20        |  R              | 91.7         | 18.3            | 41.66         | 5                 | CV    |
|           |  G              | 256.5        | 51.3            |               |                   |       |
|           |  B              | 63.7         | 12.7            |               |                   |       |
|           |  W (3400-4000K) | 320.9        | 64.2            |               |                   |       |
|           |  RGBW           | 723.8        | 36.2            |               |                   |       |
| 24        |  R              | 110.2        | 18.4            | 41.66         | 5                 | CV    |
|           |  G              | 285.8        | 47.6            |               |                   |       |
|           |  B              | 71.75        | 12              |               |                   |       |
|           |  W (3400-4000K) | 384.5        | 64.1            |               |                   |       |
|           |  RGBW           | 839.5        | 35              |               |                   |       |

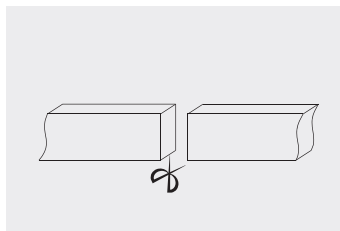
- TW: Tunable white, Testing CCT: 2700K+5400K
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- The given data are typical values due to the tolerance of the production and electrical components, output value and electrical power can vary up to 10%
- Please don't walk on it without protection.

| Power (W) | Finished CCT (K)                                                                                   | Lumen (LM/m) | Efficacy (LM/w) | Unit cut (mm) | Max.run length(m) | CV/CC |
|-----------|----------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|-------------------|-------|
| 16        |  R                | 75.42        | 18.9            | 41.66         | 5                 | CV    |
|           |  G                | 224.5        | 56.1            |               |                   |       |
|           |  B                | 55.11        | 13.8            |               |                   |       |
|           |  W (2500-2900K)   | 246.6        | 61.7            |               |                   |       |
|           |  RGBW             | 607.8        | 38              |               |                   |       |
| 20        |  R                | 91.5         | 18.3            | 41.66         | 5                 | CV    |
|           |  G                | 263.75       | 52.8            |               |                   |       |
|           |  B                | 66.25        | 13.3            |               |                   |       |
|           |  W (2500-2900K)   | 305.2        | 61              |               |                   |       |
|           |  RGBW             | 741.4        | 37.1            |               |                   |       |
| 24        |  R                | 111.8        | 18.6            | 41.66         | 5                 | CV    |
|           |  G                | 300.4        | 50.1            |               |                   |       |
|           |  B                | 79.45        | 13.2            |               |                   |       |
|           |  W (2500-2900K)   | 362.8        | 60.5            |               |                   |       |
|           |  RGBW             | 863          | 36              |               |                   |       |
| 16        |  R                | 74.86        | 18.7            | 41.66         | 5                 | CV    |
|           |  G                | 219.4        | 54.9            |               |                   |       |
|           |  B                | 55.95        | 14              |               |                   |       |
|           |  W (2200-2600K)   | 247.4        | 61.9            |               |                   |       |
|           |  RGBW           | 588.6        | 36.8            |               |                   |       |
| 20        |  R              | 93.4         | 18.7            | 41.66         | 5                 | CV    |
|           |  G              | 261.9        | 52.4            |               |                   |       |
|           |  B              | 70.1         | 14              |               |                   |       |
|           |  W (2200-2600K) | 305.7        | 61.1            |               |                   |       |
|           |  RGBW           | 717.8        | 35.9            |               |                   |       |
| 24        |  R              | 109.6        | 18.3            | 41.66         | 5                 | CV    |
|           |  G              | 291.1        | 48.5            |               |                   |       |
|           |  B              | 77.91        | 13              |               |                   |       |
|           |  W (2200-2600K) | 366.2        | 61              |               |                   |       |
|           |  RGBW           | 836.8        | 34.9            |               |                   |       |

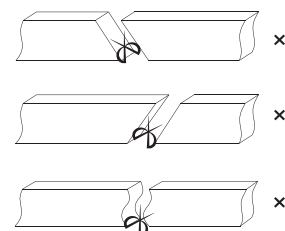
## Cutting Mark



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

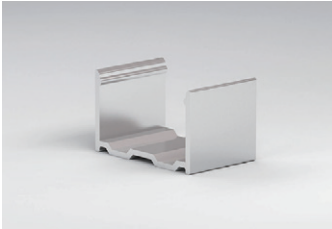


Vertical cutting precisely in the exact cutting position of led strip.



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

## Mounting Way



Aluminium Mounting clips  
33X20X20MM

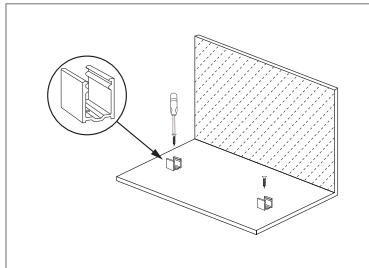


Aluminium Profile  
33X20X1000MM

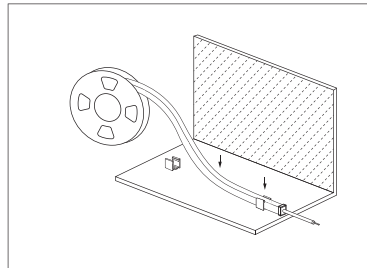


Bendable Stainless Steel Profile  
31.5X16.5X1000MM

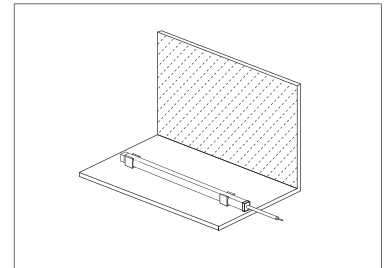
### Clips installation



Fix the mounting clips to the place where it needs to be installed by screwdriver.

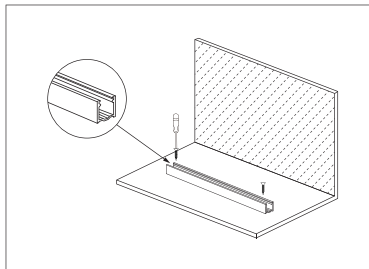


Put the neon light into the clips, please do not twist or bend excessively during installation. Take it out and reassemble, it will most likely cause the product damaged.

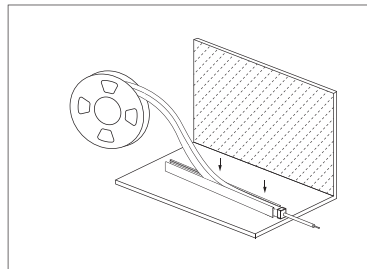


Fixed finish, light up with the DC driver

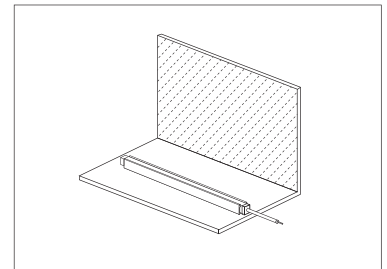
### Groove's installation



Fix the aluminum profile to the place where it needs to be installed by screwdriver.



Put the neon light into the aluminum profile, please do not twist or bend excessively during installation. Take it out and reassemble, it will most likely cause the product damaged.



Fixed finish, light up with the DC driver

## Cautions:

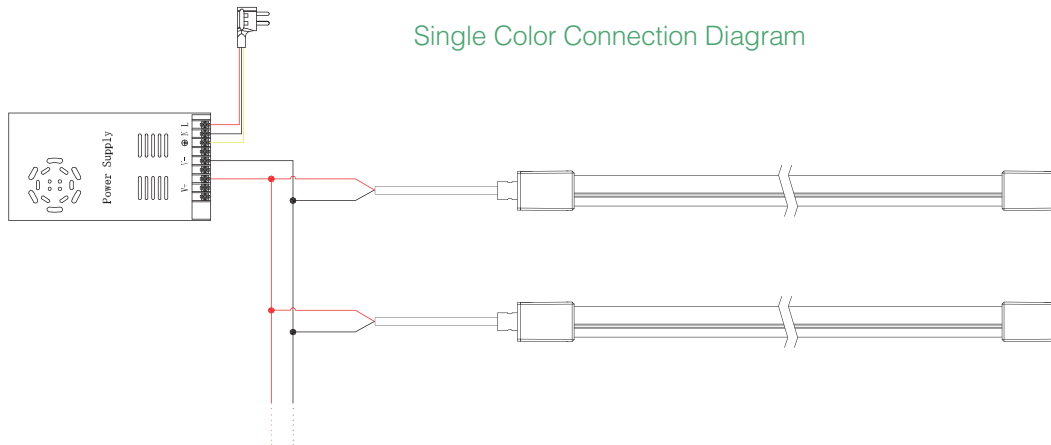
The unused product and unused product after unpacking should be sealed with the packaging bag to avoid prolonged exposure.

Tests showed that nail and benzene substances will have yellowing effects on silicone gel; in the new indoor decoration environment, epoxy floor paint, wall

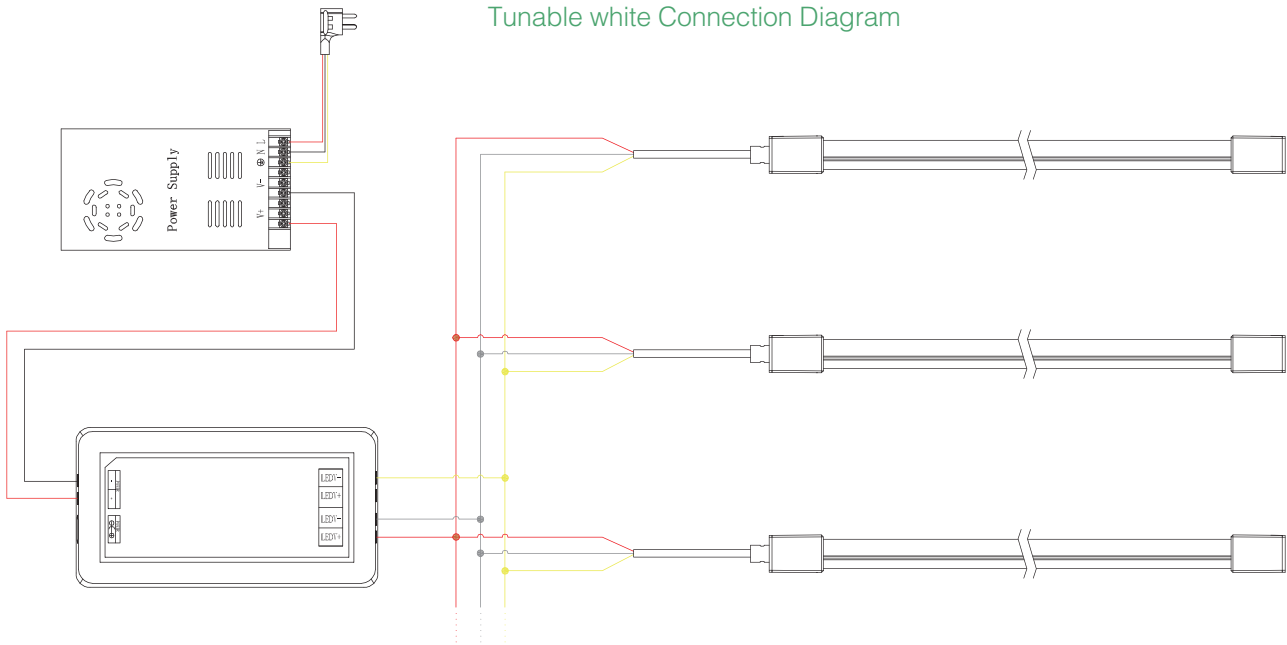
paint, wallpaper adhesive, various decoration materials or new furniture, possibly release of nail and benzene substances, it is recommended to remove formaldehyde and benzene or ventilate for a period of time in the new indoor decoration environment, and then install the neon strip to avoid yellowing of the silicone gel.

## Wiring diagram

Single Color Connection Diagram

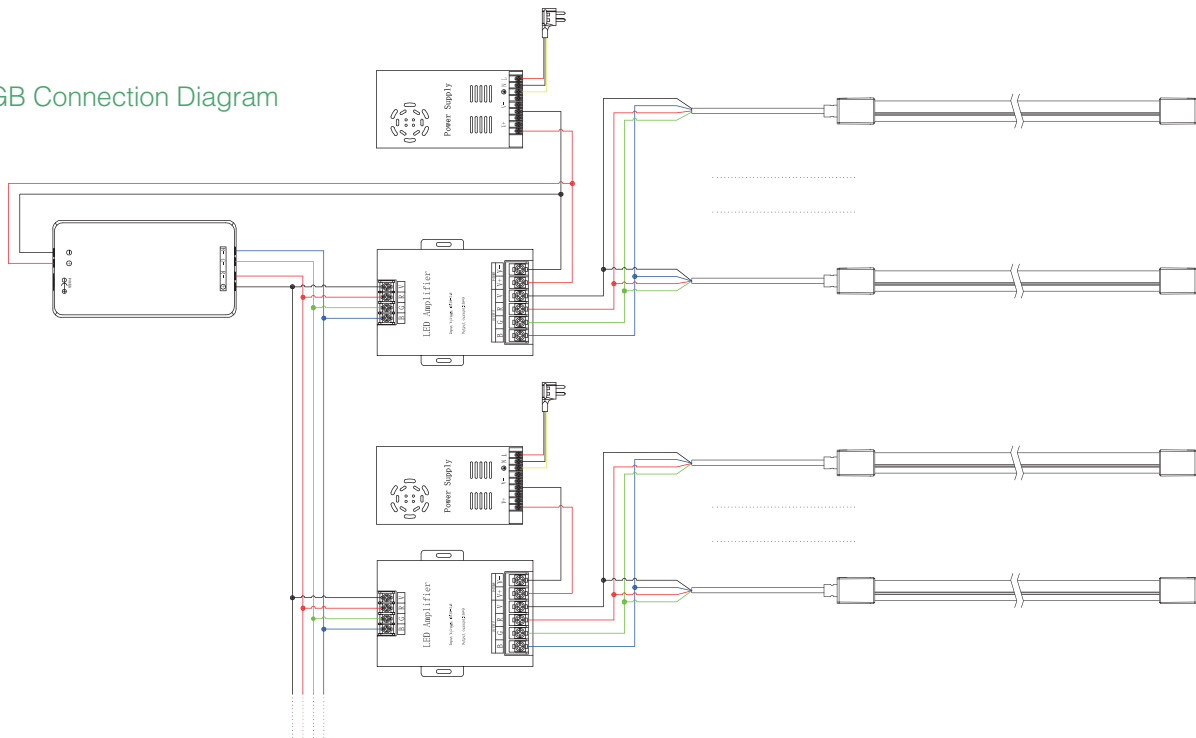


Tunable white Connection Diagram

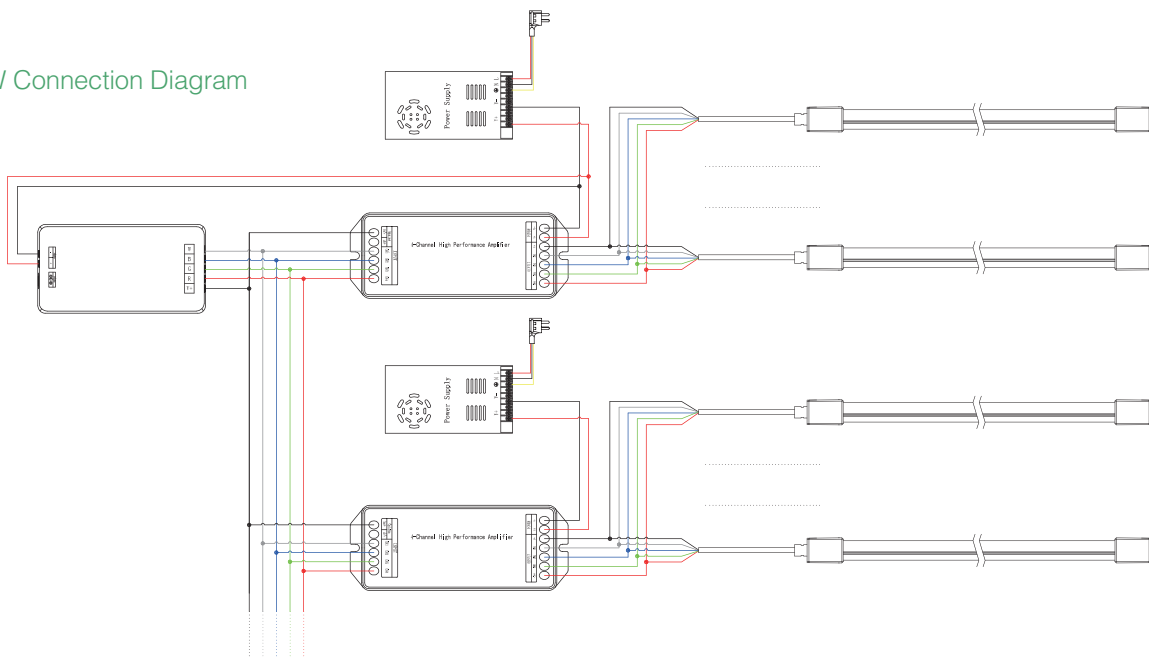


## Wiring diagram

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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