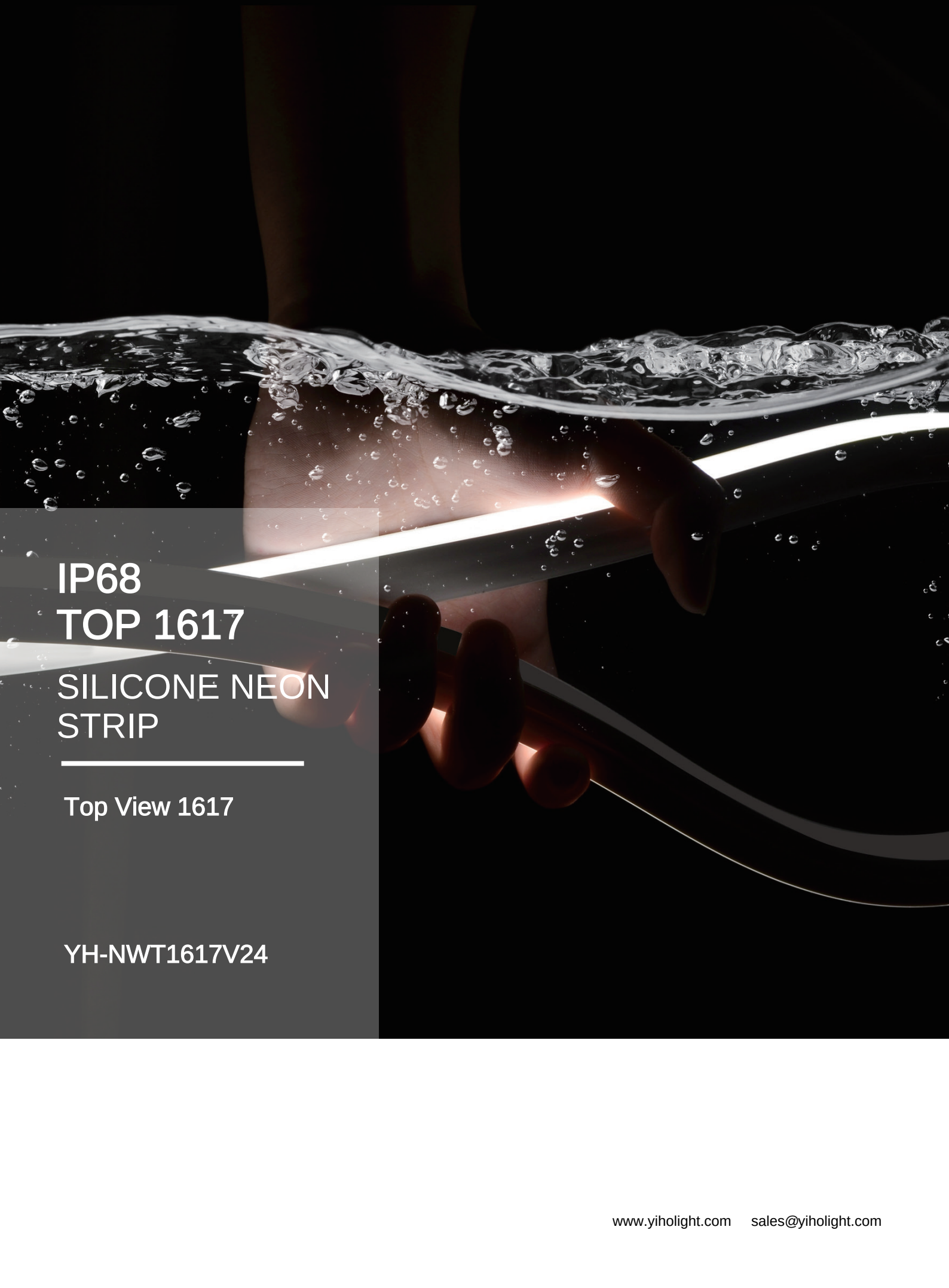


A hand is shown holding a long, thin, glowing neon strip that is partially submerged in water. The water is dark, and the light from the strip creates a bright, wavy line across the surface. Bubbles are visible around the strip. The background is black.

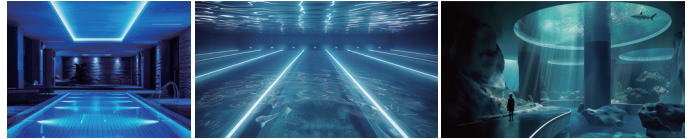
IP68 TOP 1617 SILICONE NEON STRIP

Top View 1617

YH-NWT1617V24



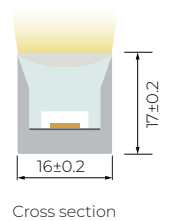
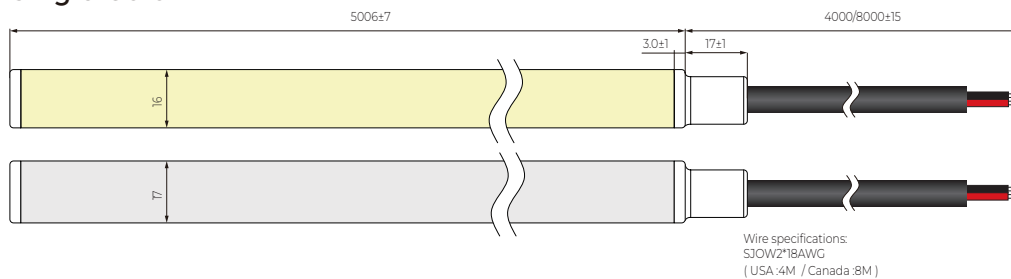
- Advanced sealing tech, integrated molding process for IP68 protection and 5m underwater depth.
- Made from chlorine-resistant silicone formula, Chlorine resistance $\leq 5\text{PPM}$, has better corrosion resistance, ideal for swimming pools.
- Unique light distribution structure provides uniform illumination with no transparent window, ensuring no light leakage.
- Available in a smooth matte finish for superior dust resistance.
- 3 years warranty, long-life LED > 50,000 hrs.



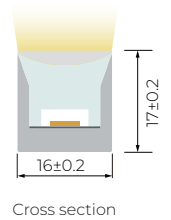
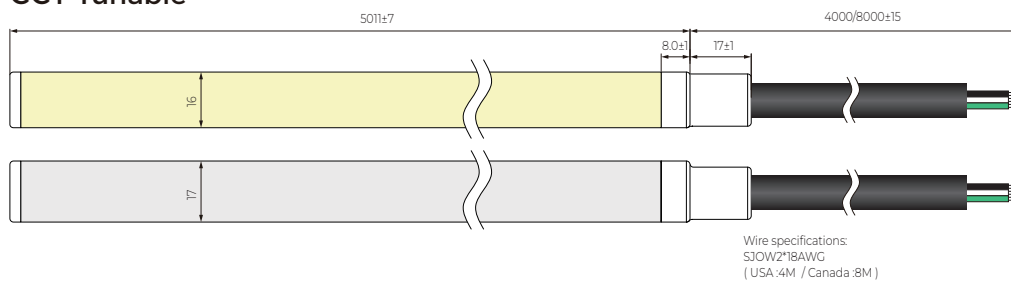
- application

Dimension structure (Unit: mm)

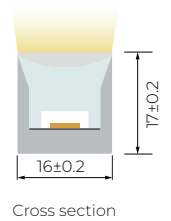
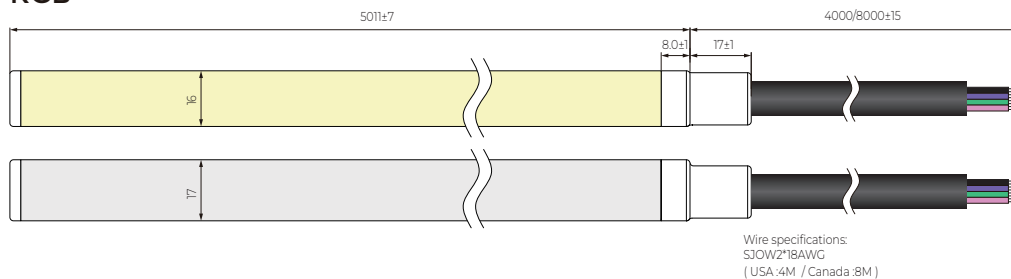
Single Color



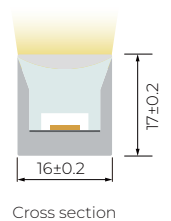
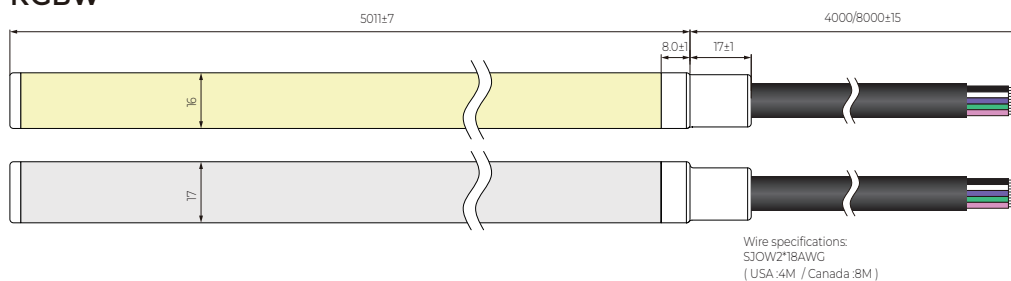
CCT Tunable



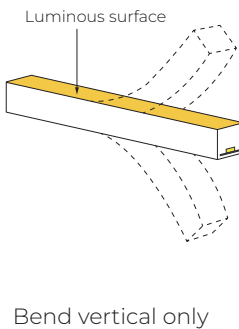
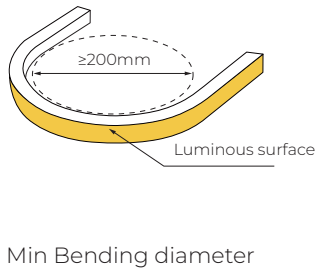
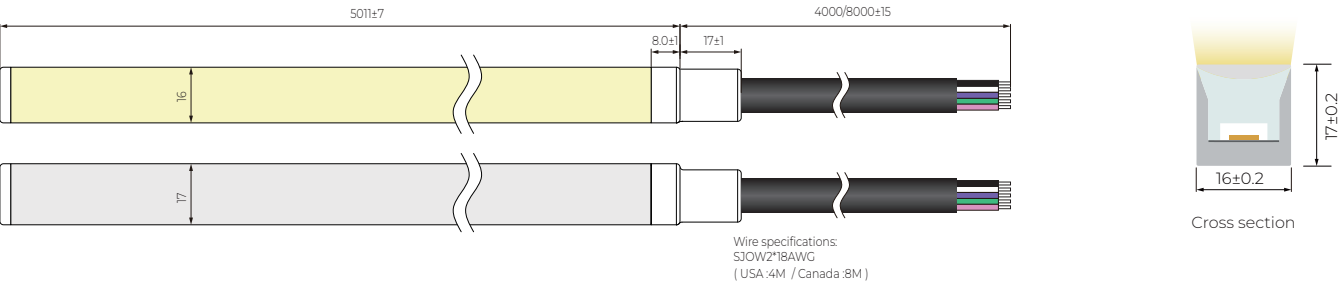
RGB



RGBW



RGBW Pixel



Electrical Parameter

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

Specification

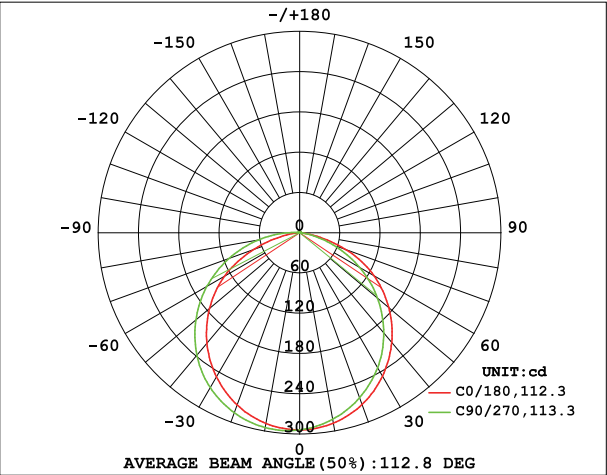
Power (w/m)	Efficacy (lm/w) @4000K		Max Ambient Temperature
5	CV:89.9	CC:71.5	55 C
10	CV:86.6	CC:68.9	45 C
15	CV:83.9	CC:66.7	35 C

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

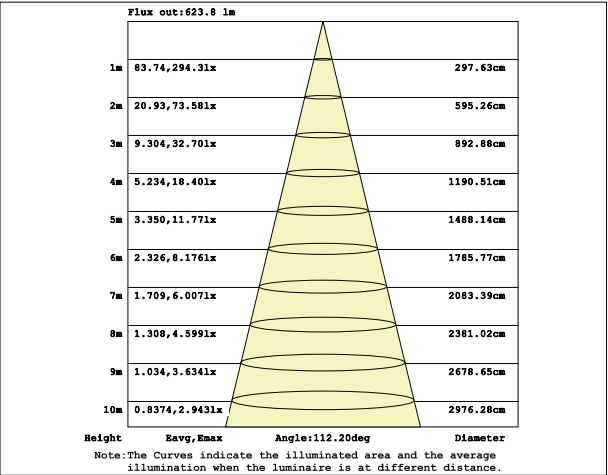
Length Standard

Length Range (M)	Final Length (mm)			Tolerance (mm)
	Single color Integral end cap	RGBW Integral end cap	RGBW Pixel Integral end cap	
0<Neon Strip(L)≤5	L+6	L+11	L+11	±7
5<Neon Strip(L)≤10	L+6	--	--	±10
10<Neon Strip(L)≤15	L+6	--	--	±13
15<Neon Strip(L)≤20	L+6	--	--	±16
20<Neon Strip(L)≤25	L+6	--	--	±19
25<Neon Strip(L)≤30	L+6	--	--	±22
30<Neon Strip(L)≤35	L+6	--	--	±25

Light Distribution Curve

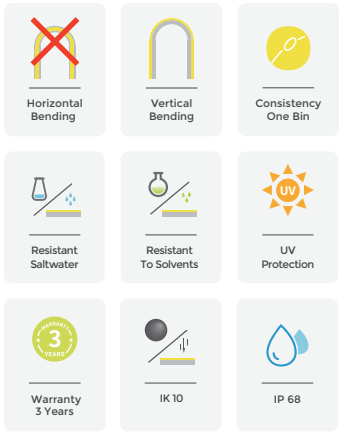


Illuminance curve



Note: The above data is based on 24V ,10W/M,single colour with 4000k colour temperature.

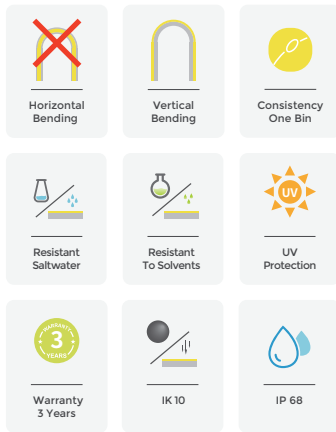
Parameter Table



- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 4000mm cable.
- The given color temperature is the temperature of finished product.
- 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%.
- All products can be dimmed; the dimmer' s voltage should conform to the rated voltage of the led light.
- The output frequency of the dimmer of the constant-current led light should be less than 2K Hz, and the output PWM can control the led light.

Single color : CV

CCT(K)	RA	SDCM	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
1800±150	≥90	--	DC24V	5	316	63.3	50	10	CV
				10	603	60.3	50	7	CV
				15	863	57.5	50	5	CV
2100±150	≥90	--	DC24V	5	353	70.6	50	10	CV
				10	672	67.2	50	7	CV
				15	961	64.1	50	5	CV
2400±150	≥90	--	DC24V	5	367	73.4	50	10	CV
				10	702	70.2	50	7	CV
				15	1013	67.5	50	5	CV
2700	≥90	≤3	DC24V	5	396	79.1	50	10	CV
				10	750	75.0	50	7	CV
				15	1076	71.7	50	5	CV
3000	≥90	≤3	DC24V	5	425	84.9	50	10	CV
				10	806	80.6	50	7	CV
				15	1157	77.1	50	5	CV
3500	≥90	≤3	DC24V	5	439	87.9	50	10	CV
				10	841	84.1	50	7	CV
				15	1216	81.0	50	5	CV
4000	≥90	≤3	DC24V	5	449	89.9	50	10	CV
				10	866	86.6	50	7	CV
				15	1258	83.9	50	5	CV
5000	≥90	≤4	DC24V	5	444	88.8	50	10	CV
				10	853	85.3	50	7	CV
				15	1235	82.4	50	5	CV
6500	≥90	≤5	DC24V	5	455	90.9	50	10	CV
				10	876	87.6	50	7	CV
				15	1272	84.8	50	5	CV
Red	--	--	DC24V	5	177	35.3	50	15	CV
				10	354	35.4	50	9	CV
				15	522	34.8	50	7	CV
Green	--	--	DC24V	5	487	97.4	50	12	CV
				10	809	80.9	50	9	CV
				15	1045	69.6	50	7	CV
Blue	--	--	DC24V	5	90	17.9	50	8	CV
				10	170	17.0	50	6	CV
				15	236	15.8	50	5	CV
Yellow	--	--	DC24V	5	128	25.6	50	13	CV
				10	263	26.3	50	8	CV
				15	375	25.0	50	7	CV
Orange	--	--	DC24V	5	167	33.5	50	13	CV
				10	363	36.3	50	9	CV
				15	550	36.7	50	7	CV
Pink	--	--	DC24V	5	372	74.5	50	10	CV
				10	715	71.5	50	6	CV
				15	1035	69	50	5	CV



- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 4000mm cable.
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- All products can be dimmed; the dimmer' s voltage should conform to the rated voltage of the led light.
- The output frequency of the dimmer of the constant-current led light should be less than 2K Hz, and the output PWM can control the led light.

Single color : CC

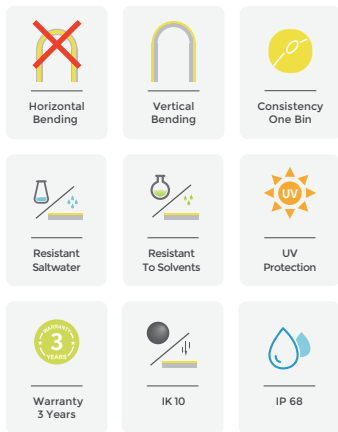
CCT(K)	RA	SDCM	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
1800±150	≥90	--	DC24V	5	255	50.9	50	27	CC
				10	485	48.5	50	18	CC
				15	694	46.3	50	12	CC
2100±150	≥90	--	DC24V	5	285	56.9	50	27	CC
				10	542	54.2	50	18	CC
				15	775	51.7	50	12	CC
2400±150	≥90	--	DC24V	5	298	59.6	50	27	CC
				10	570	57.0	50	18	CC
				15	822	54.8	50	12	CC
2700	≥90	≤3	DC24V	5	325	65.0	50	27	CC
				10	616	61.6	50	18	CC
				15	884	58.9	50	12	CC
3000	≥90	≤3	DC24V	5	339	67.8	50	27	CC
				10	644	64.4	50	18	CC
				15	924	61.6	50	12	CC
3500	≥90	≤3	DC24V	5	357	71.4	50	27	CC
				10	683	68.3	50	18	CC
				15	987	65.8	50	12	CC
4000	≥90	≤3	DC24V	5	358	71.5	50	27	CC
				10	689	68.9	50	18	CC
				15	1001	66.7	50	12	CC
5000	≥90	≤4	DC24V	5	361	72.1	50	27	CC
				10	693	69.3	50	18	CC
				15	1004	66.9	50	12	CC
6500	≥90	≤5	DC24V	5	357	71.4	50	27	CC
				10	688	68.8	50	18	CC
				15	999	66.6	50	12	CC
Red	--	--	DC24V	5	140	28.0	50	35	CC
				10	281	28.1	50	18	CC
				--	--	--	--	--	--
Green	--	--	DC24V	5	396	79.2	50	27	CC
				10	658	65.8	50	16	CC
				15	850	56.6	50	10	CC
Blue	--	--	DC24V	5	72	14.3	50	27	CC
				10	136	13.6	50	18	CC
				15	189	12.6	50	12	CC
Yellow	--	--	DC24V	5	103	20.6	50	35	CC
				10	211	21.1	50	18	CC
				--	--	--	--	--	--
Orange	--	--	DC24V	5	134	26.8	50	35	CC
				10	291	29.1	50	18	CC
				--	--	--	--	--	--
Pink	--	--	DC24V	5	298	59.7	50	27	CC
				10	573	57.3	50	18	CC
				15	829	55.3	50	12	CC

CCT Tunable

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700±150	≥90	DC24V	9.5	723	76.1	71.4	5	CV
6500±500	≥90	DC24V	9.5	812	85.5	71.4	5	CV
2700+6500	≥90	DC24V	11	933	84.8	71.4	5	CV

RGB

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	3.3	62	18.9	62.5	5	CV
G	--	DC24V	3.3	235	71.2	62.5	5	CV
B	--	DC24V	3.3	39	11.8	62.5	5	CV
RGB	--	DC24V	10	338	33.8	62.5	5	CV



- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 4000mm cable.
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- The output frequency of the dimmer of the constant-current led light should be less than 2K Hz, and the output PWM can control the led light.

RGBW

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R	--	DC24V	3.7	69	18.4	62.5	5	CV
G	--	DC24V	3.7	186	49.5	62.5	5	CV
B	--	DC24V	3.7	51	13.7	62.5	5	CV
2700±150	≥80	DC24V	3.7	211	56.2	62.5	5	CV
RGBW	--	DC24V	15	516	34.4	62.5	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R	--	DC24V	3.7	78	20.8	62.5	5	CV
G	--	DC24V	3.7	192	51.3	62.5	5	CV
B	--	DC24V	3.7	55	14.7	62.5	5	CV
3000±150	≥80	DC24V	3.7	234	62.4	62.5	5	CV
RGBW	--	DC24V	15	554	36.9	62.5	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R	--	DC24V	3.7	78	20.8	62.5	5	CV
G	--	DC24V	3.7	192	51.3	62.5	5	CV
B	--	DC24V	3.7	55	14.7	62.5	5	CV
4000 ⁺⁴⁰⁰ ₋₂₀₀	≥80	DC24V	3.7	244	65.1	62.5	5	CV
RGBW	--	DC24V	15	570	38.0	62.5	5	CV

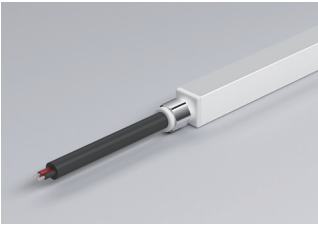
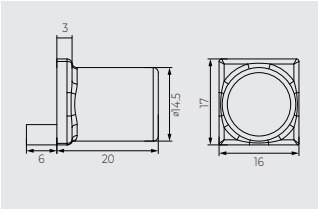
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R	--	DC24V	3.7	78	20.8	62.5	5	CV
G	--	DC24V	3.7	192	51.3	62.5	5	CV
B	--	DC24V	3.7	55	14.7	62.5	5	CV
6500±500	≥80	DC24V	3.7	251	66.9	62.5	5	CV
RGBW	--	DC24V	15	579	38.6	62.5	5	CV

Pixel RGBW : DMX512

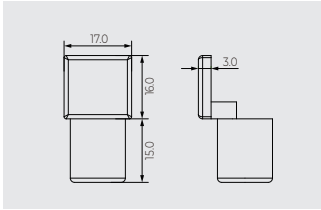
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	Pixel (PCS)	IC Model
R	--	DC24V	5	54	10.7	125	7	8	UCS512C1L
G	--	DC24V	5	144	28.8	125	7	8	UCS512C1L
B	--	DC24V	5	42	8.4	125	7	8	UCS512C1L
W: 4000 ⁺⁴⁰⁰ ₋₂₀₀	≥80	DC24V	5	174	34.7	125	7	8	UCS512C1L
RGBW	--	DC24V	15	414	27.6	125	7	8	UCS512C1L

Cable Entry (Unit: mm)

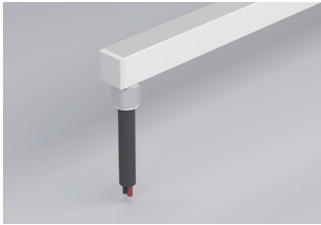
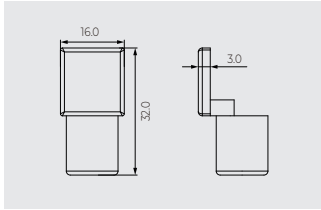
Integral end cap (IP68) Single Color



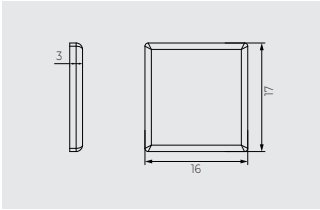
Front Cable Entry



Side Cable Entry

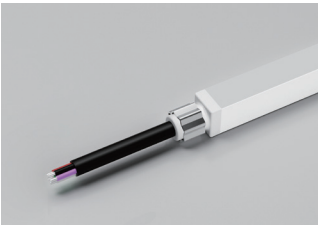
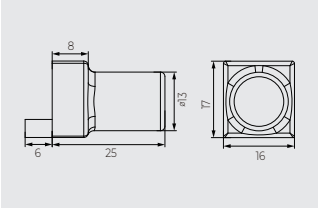


Bottom Cable Entry

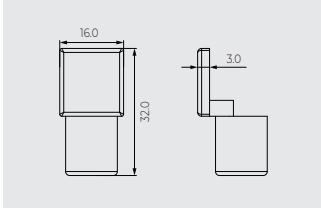


Closed End cap

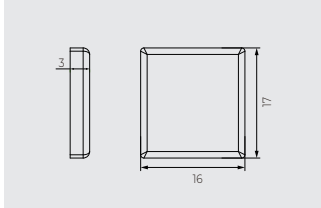
Integral end cap (IP68) RGBW/RGBW Pixel



Front Cable Entry



Bottom Cable Entry



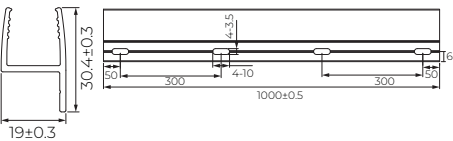
Closed End cap

Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
SJOW Rubber cable		OD: 7.4mm / Inner core: 18AWG		Single color: Red V+、Black V-
		OD: 9.6mm / Inner core: 18AWG		CCT Tunable: Black V+、White w、Green WW
		OD: 9.6mm / Inner core: 18AWG		RGB: Black V+、Purple B、Green G、Pink R
		OD: 9.6mm / Inner core: 18AWG		RGBW: Black V+、White W、Purple B、Green G、Pink R
		OD: 9.6mm / Inner core: 18AWG		DMX512: Pink V+、Green PI/PO、Purple A、White B、Black GND

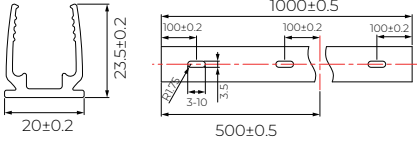
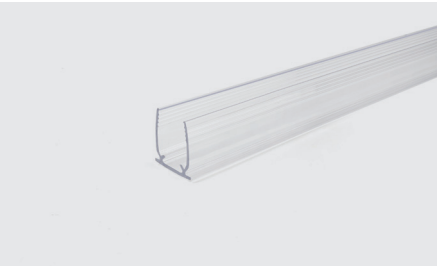
Accessories (Unit: mm)

PC Profile



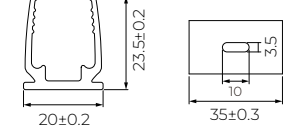
Length: 1000X19X30.4
Accessories:
Screw M3X16 (SUS304)

PC Profile



Length: 1000X20X23.5
Accessories:
Screw M3X16 (SUS304)

PC Clip



Length: 35X20X23.5
Accessories:
Screw M3X16 (SUS304)

Optional combination (Unit: mm)

1617-IP68-2T-Single color (For connection of two single color light strips)



2T junction box



Length:
131.4X68.2X37
Quantity:
1PCS

P3 terminal cap



Length:
12.3X21
Quantity:
2PCS

7.4 Waterproof sealing ring



Length:
15.8X8.6
Quantity:
2PCS

Screw



Length:
M3X12
Quantity:
3PCS

1617-IP68-2T-Pixel (For connection of two digital light strips)



2T junction box



Length:
131.4X68.2X37
Quantity:
1PCS

P3 terminal cap



Length:
12.3X21
Quantity:
5PCS

9.6 Waterproof sealing ring



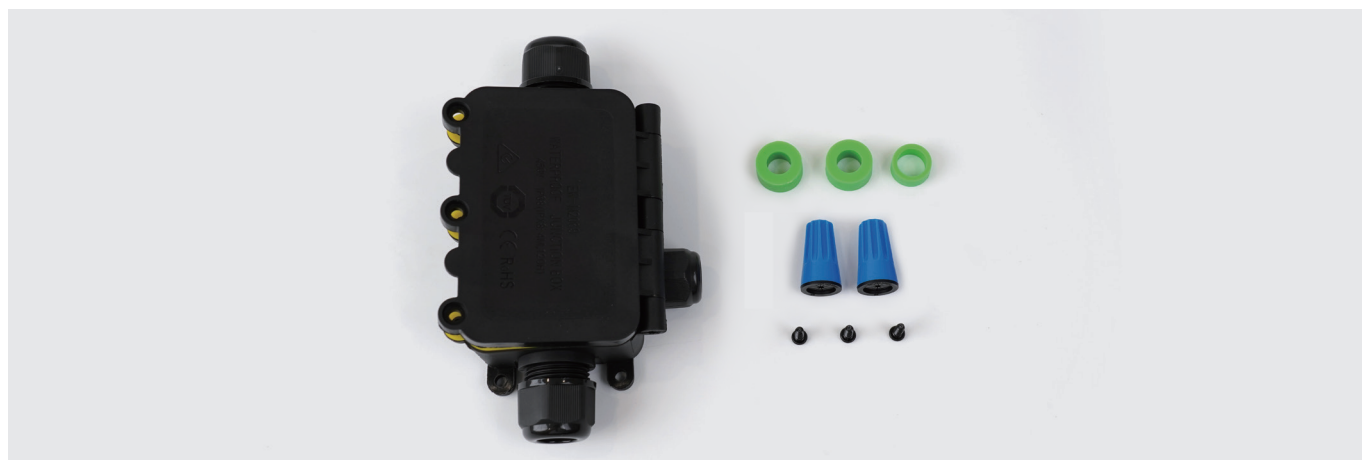
Length:
15.8X8.6
Quantity:
2PCS

Screw



Length:
M3X12
Quantity:
3PCS

1617-IP68-3T-Single color (For connection of three single color light strips)



3T junction box

P4 terminal cap

7.4 Waterproof sealing ring
7.4 Waterproof sealing ring

Screw



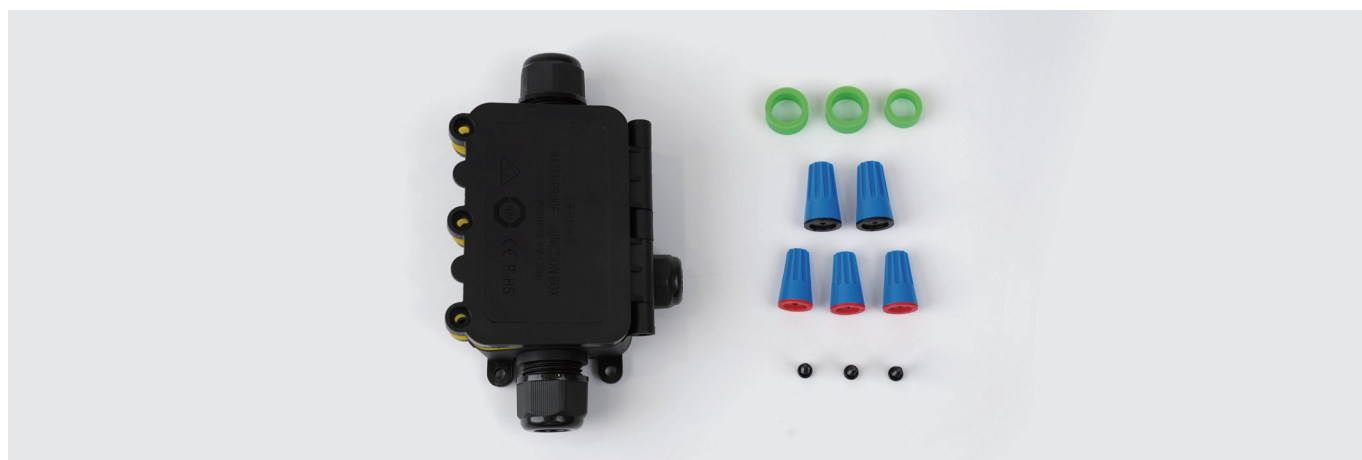
Length:
131.4X80.4X37
Quantity:
1PCS

Length:
13.5X23.6
Quantity:
2PCS

Length:
15.8X8.6(7.4)/13.8X6.5(7.4)
Quantity:
2PCS(7.4)/1PCS(7.4)

Length:
M3X12
Quantity:
3PCS

1617-IP68-3T-Pixel (For connection of two digital light strips, powered by a two-core wire)



3T junction box

P4 terminal cap
P3 terminal cap

9.6 Waterproof sealing ring
7.4 Waterproof sealing ring

Screw



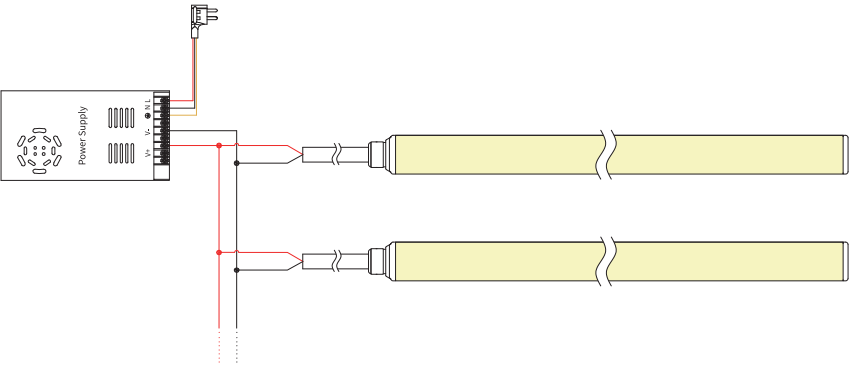
Length:
131.4X80.4X37
Quantity:
1PCS

Length:
13.5X23.6(P4)/12.3X21(P3)
Quantity:
2PCS(P4)/3PCS(P3)

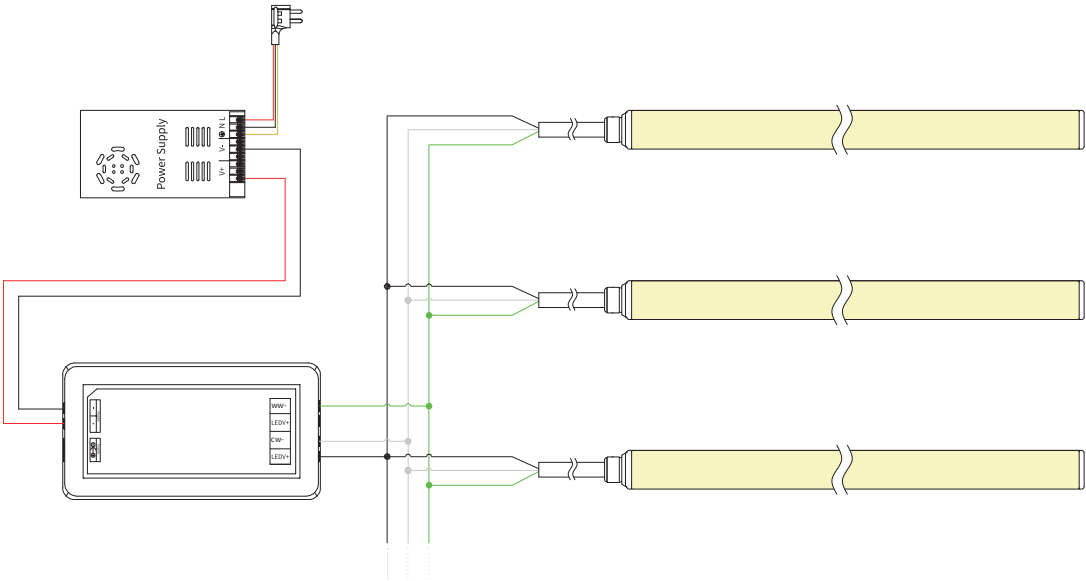
Length:
15.8X8.6(9.6)/13.8X6.5(7.4)
Quantity:
2PCS(9.6)/1PCS(7.4)

Length:
M3X12
Quantity:
3PCS

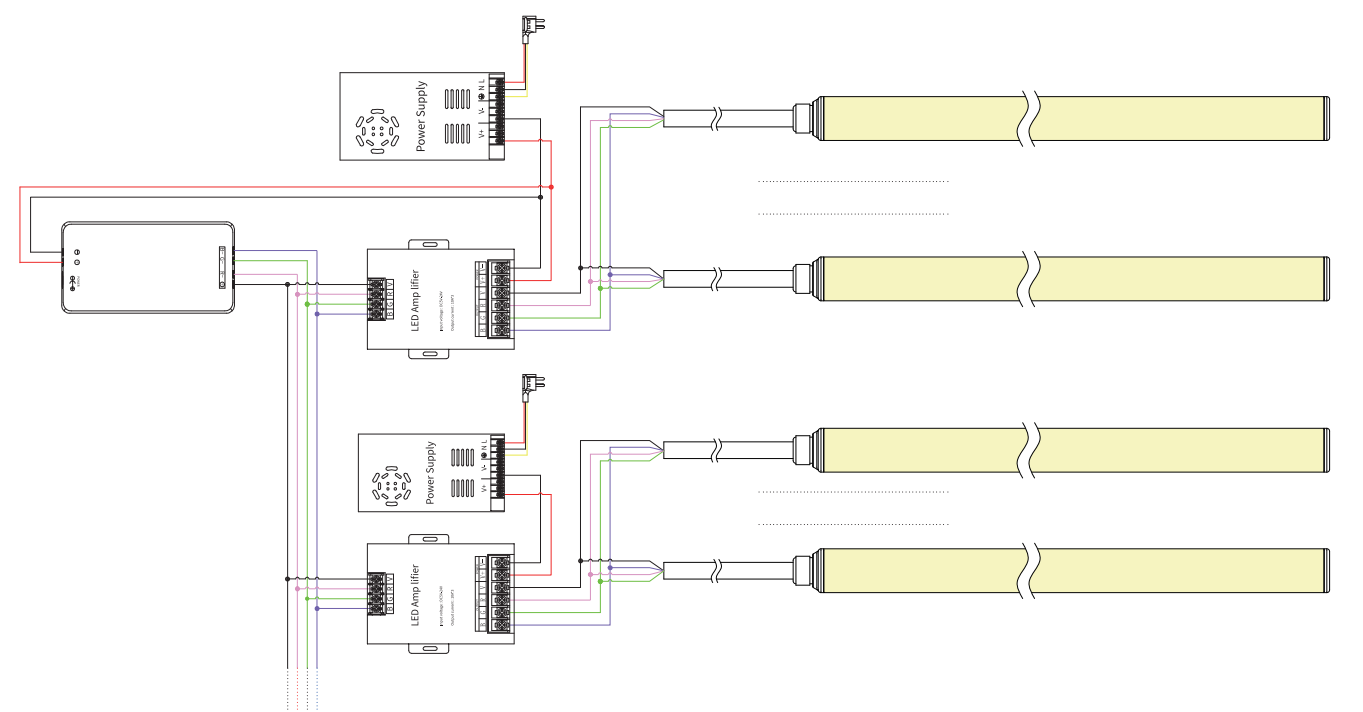
Single Color Connection Diagram



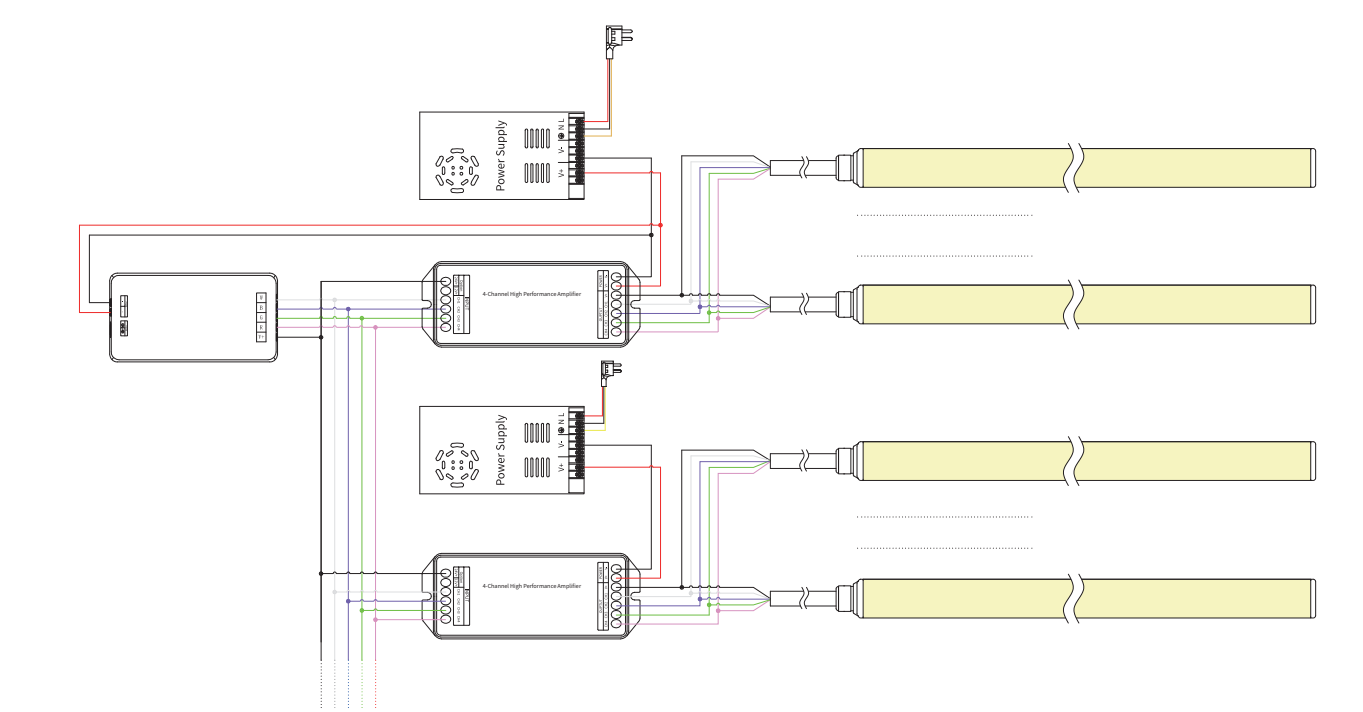
Tunable white Connection Diagram



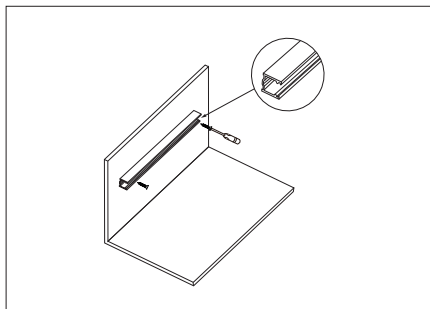
RGB Connection Diagram



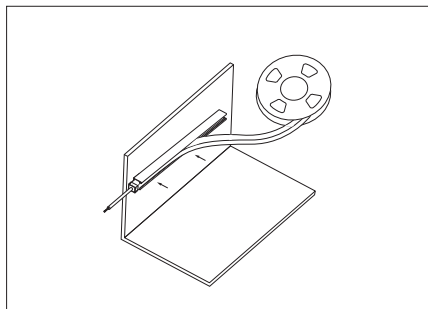
RGBW Connection Diagram



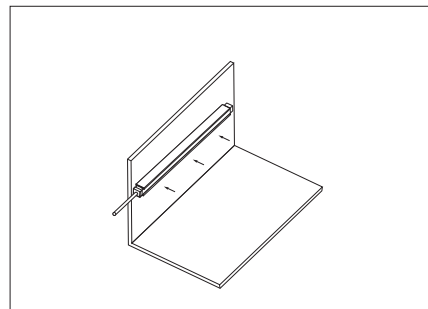
Profile Installation



1. Taking out the profile and screw(screw not included),use the screw driver fix the profile to the installed area.

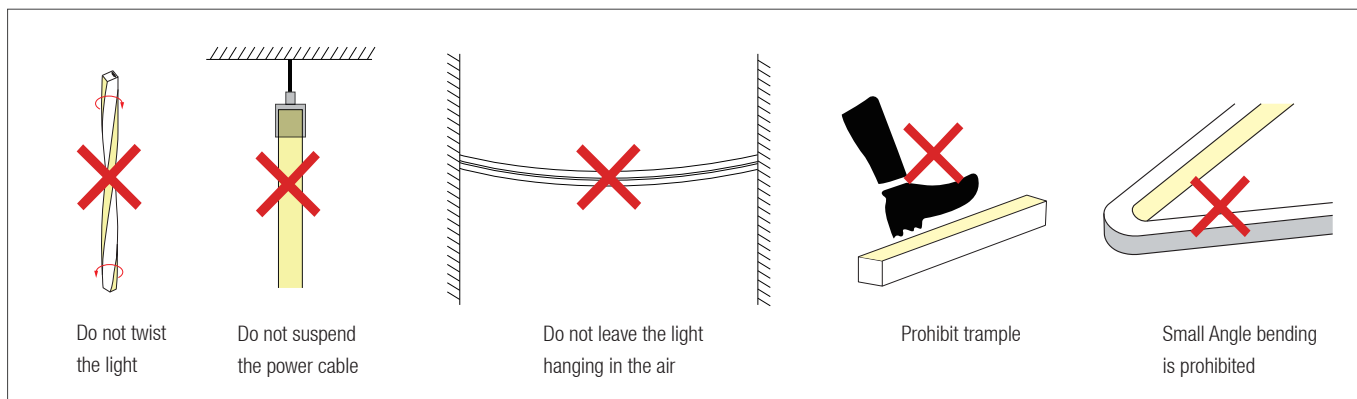
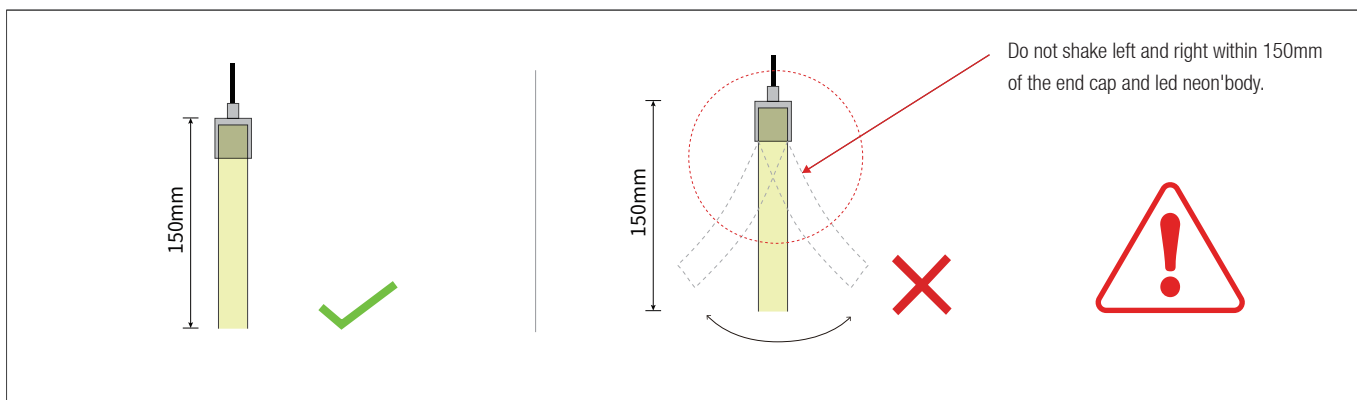


2. Fixing the strip into the profile. No bending sharply and twisting in the process.

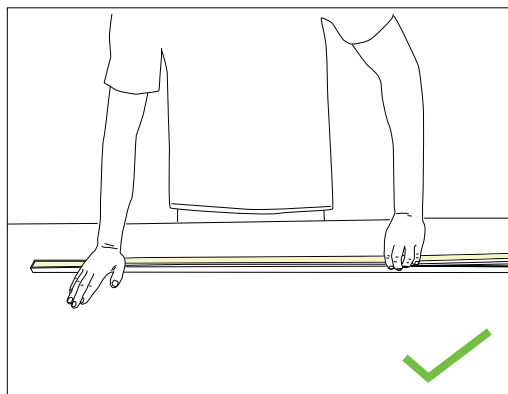


3. Fixing well and connect the DC driver and turn on the power supply.

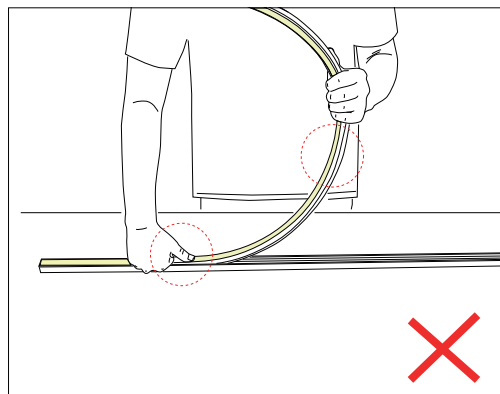
Installation Precautions



Put it in the profile



- Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip above the groove with your right hand.
- Try to keep the led strip in a flat state during the installation process.



- Do not press the led strip with a single finger, it is easy to damage the internal parts of the led strip.
- The bent arc of the led strip should not be too large during installation.

Installation Precautions --- Top Mounted

(If the length of the light is more than 2 meters, two persons must work together to install it.)

Figure 1

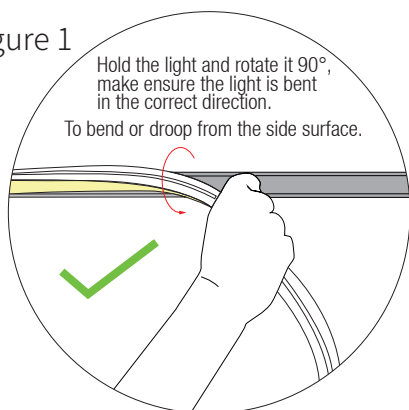
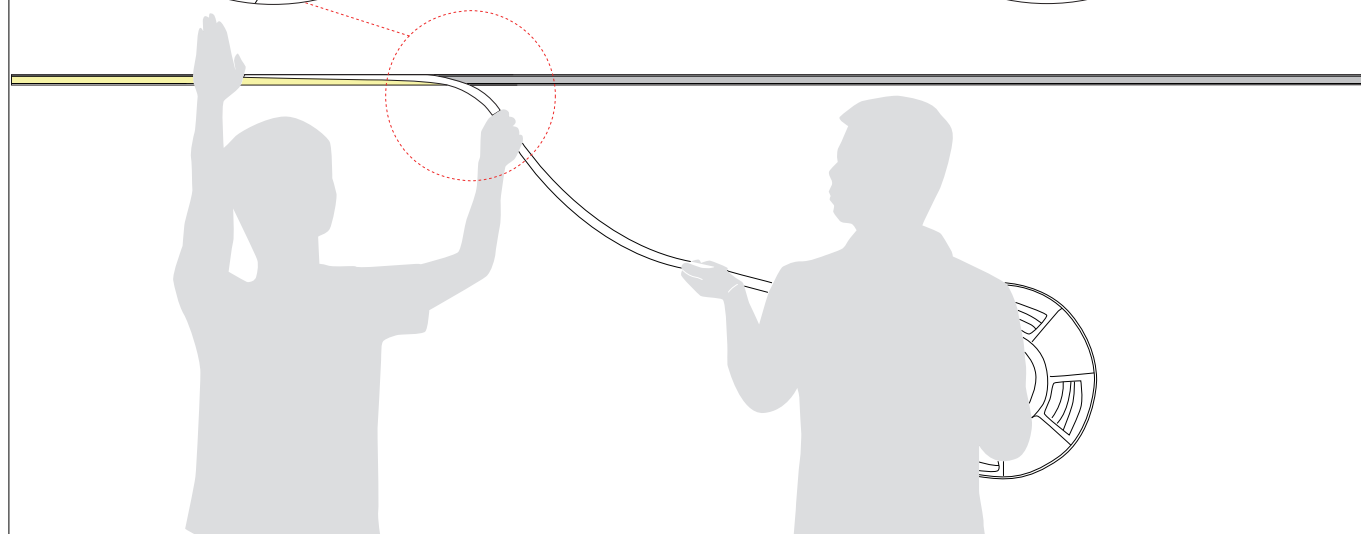
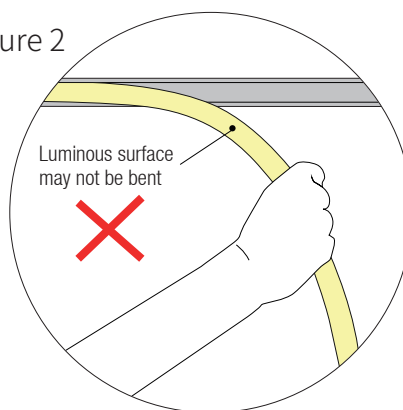


Figure 2



1.Installer:

- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand, hold it and rotate it 90° to droop it in the direction of your hand. See Figure 1.
- Luminous surface may not be bent. See Figure 2.

2.Assistant:

- Cooperate with the installer to lift the reel of the light, and then slowly deliver the light to installer. Do not pull or twist the light during the installation.

Notes

- ※ The power of UL676 neon strip cannot exceed 15W per meter; the maximum power of one single strip cannot exceed 100W.
- ※ 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.

Tests showed that methanal and benzenes will have yellowing effects on silicone.

In the newly decorated interior environment, epoxy floor paint, wall paint, wallpaper adhesive, various decoration materials or new furniture, they are likely to release of methanal and benzenes.

It is recommended to remove methanal and benzenes first, or ventilate for a period of time in the newly decorated interior environment before install the silicone neon light, to avoid affecting the silicone body.
