

Note : The pictures in the Product Specification are for reference only, please refer to the actual product.

PRODUCT SPECIFICATION

SILICONE NEON STRIP

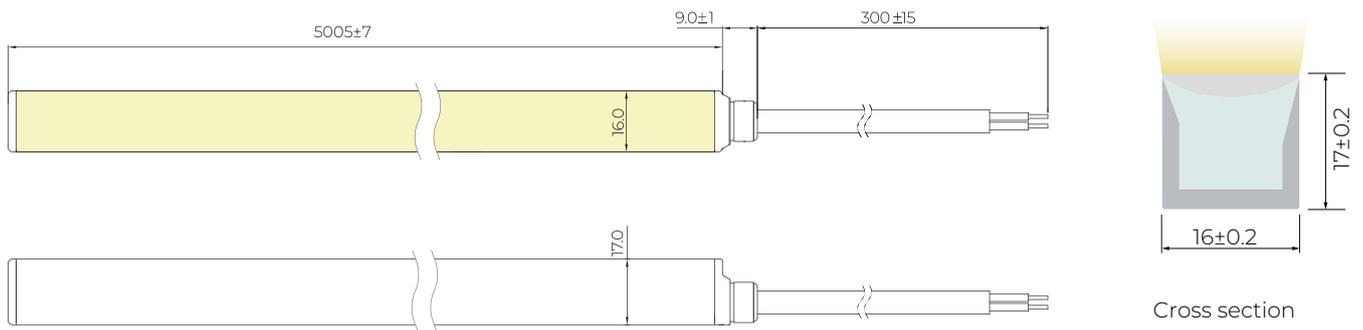
- Top View & Side View

AGILE 1617 3D
N3D1617



- Using high light transmittance, environmentally friendly silicone material, integrated extrusion molding process, unique optical light distribution structure design, uniform surface light without shadow, no transparent window, no light leakage on the side and bottom, clear laser printing, accurate cutting.
- Its unique design makes the product have top and side two luminous directions while can be vertical and horizontal bending, and can adapt to a variety of installation environment;
- With IP67 protection level, salt liquid resistance, acid and alkali corrosion resistance, UV resistance;
- Can be used in harsh environment or outdoors, with uniform light and dimmable functions;
- Small cutting spacing, freely configurable length, optional matte treatment process, smooth feel and excellent dustproof effect, ensuring finished product color consistency, long-life LED >50000 hrs.

Dimension structure (Unit: mm)



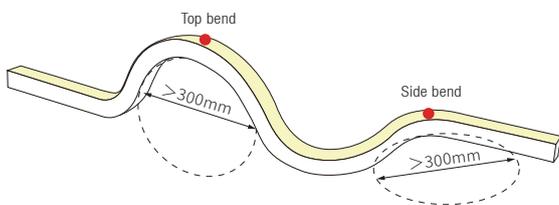
Electrical Parameter

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: 74.5	55 C
10	CV: 71.4	45 C
4.8	CC: 74.5	55 C
9.6	CC: 71.4	45 C

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

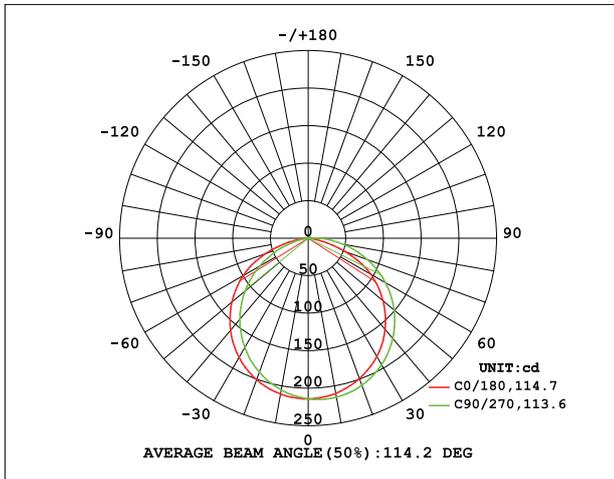


Note: Min bending diameter of Top bend>300mm,
Min bending diameter of Side bend>300mm

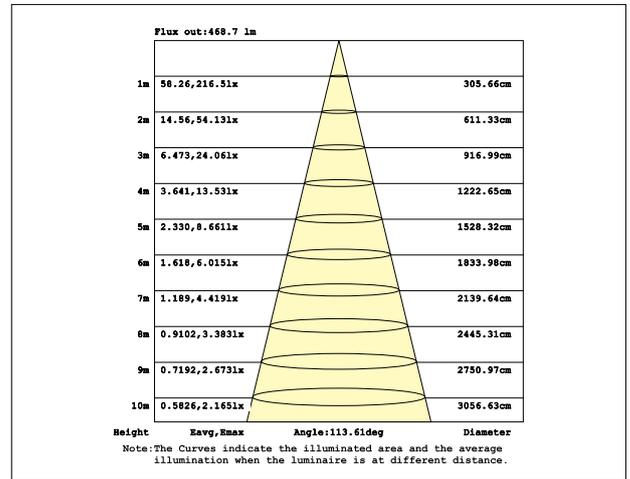
Length Standard

Length Range (M)	Final Length (mm)		Tolerance (mm)
	Integral end cap		
0<Neon Strip(L)≤5	L+5		±7
5<Neon Strip(L)≤10	L+5		±10
10<Neon Strip(L)≤15	L+5		±13
15<Neon Strip(L)≤20	L+5		±16

Light Distribution Curve

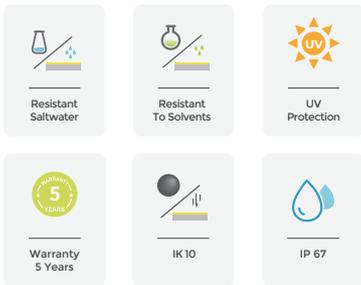


Illuminance curve



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.

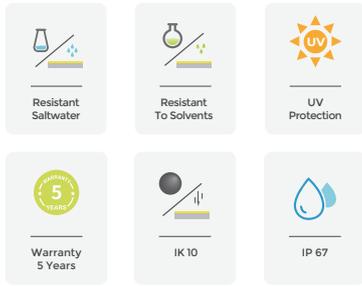
Parameter Table



- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 30CM 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	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
1800±100	≥90	DC24	5	293	58.6	50	8	CV
			10	552	55.2	50	5	CV
2100±150	≥90	DC24	5	319	63.8	50	8	CV
			10	612	61.2	50	5	CV
2400±150	≥90	DC24	5	345	69.0	50	8	CV
			10	664	66.4	50	5	CV
2700±150	≥90	DC24	5	353	70.5	50	8	CV
			10	666	66.6	50	5	CV
3000±150	≥90	DC24	5	352	70.4	50	8	CV
			10	676	67.6	50	5	CV
3500±200	≥90	DC24	5	369	73.7	50	8	CV
			10	711	71.1	50	5	CV
4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24	5	373	74.5	50	8	CV
			10	714	71.4	50	5	CV
5000 ⁺⁵⁰⁰ ₋₃₀₀	≥90	DC24	5	360	72.0	50	8	CV
			10	696	69.6	50	5	CV
6500±500	≥90	DC24	5	376	75.1	50	8	CV
			10	717	71.7	50	5	CV
Red	--	DC24	5	147	29.3	50	10	CV
			10	289	28.9	50	7	CV
Green	--	DC24	5	425	84.9	50	8	CV
			10	695	69.5	50	5	CV
Blue	--	DC24	5	80	15.9	50	8	CV
			10	142	14.2	50	5	CV
Yellow	--	DC24	5	104	20.8	50	10	CV
			10	206	20.6	50	7	CV
Orange	--	DC24	5	122	24.3	50	10	CV
			10	258	25.8	50	7	CV
Pink	--	DC24	5	308	61.6	50	8	CV
			10	578	57.8	50	5	CV



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Single color (CC)

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
1800±100	≥90	DC24	4.8	281	58.6	50	10	CC
			9.6	530	55.2	50	6	CC
2100±150	≥90	DC24	4.8	306	63.8	50	10	CC
			9.6	588	61.2	50	6	CC
2400±150	≥90	DC24	4.8	331	69.0	50	10	CC
			9.6	637	66.4	50	6	CC
2700±150	≥90	DC24	4.8	338	70.5	50	10	CC
			9.6	639	66.6	50	6	CC
3000±150	≥90	DC24	4.8	338	70.4	50	10	CC
			9.6	649	67.6	50	6	CC
3500±200	≥90	DC24	4.8	354	73.7	50	10	CC
			9.6	683	71.1	50	6	CC
4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24	4.8	358	74.5	50	10	CC
			9.6	685	71.4	50	6	CC
5000 ⁺⁵⁰⁰ ₋₃₀₀	≥90	DC24	4.8	346	72.0	50	10	CC
			9.6	668	69.6	50	6	CC
6500±500	≥90	DC24	4.8	360	75.1	50	10	CC
			9.6	688	71.7	50	6	CC
Red	--	DC24	4.8	141	29.3	50	16	CC
			9.6	277	28.9	50	10	CC
Green	--	DC24	4.8	408	84.9	50	10	CC
			9.6	667	69.5	50	5	CC
Blue	--	DC24	4.8	76	15.9	50	10	CC
			9.6	136	14.2	50	6	CC
Yellow	--	DC24	4.8	100	20.8	50	16	CC
			9.6	198	20.6	50	10	CC
Orange	--	DC24	4.8	117	24.3	50	16	CC
			9.6	248	25.8	50	10	CC
Pink	--	DC24	4.8	296	61.6	50	10	CC
			9.6	555	57.8	50	6	CC

CCT Tunable

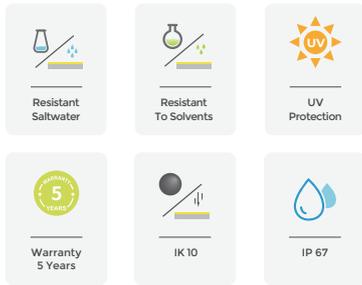
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
2700±150	≥90	DC24V	5	275	55.0	62.5	5	CV
6500±500	≥90	DC24V	5	304	60.7	62.5	5	CV
2700+6500	≥90	DC24V	10	575	57.5	62.5	5	CV

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	52	15.8	62.5	5	CV
G	--	DC24V	3.3	163	49.5	62.5	5	CV
B	--	DC24V	3.3	32	9.7	62.5	5	CV
RGB	--	DC24V	10	247	24.7	62.5	5	CV

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	60	16.1	62.5	5	CV
G	--	DC24V	3.7	187	49.8	62.5	5	CV
B	--	DC24V	3.7	36	9.6	62.5	5	CV
2700±150	≥90	DC24V	3.7	171	45.5	62.5	5	CV
RGBW	--	DC24V	15	431	28.7	62.5	5	CV



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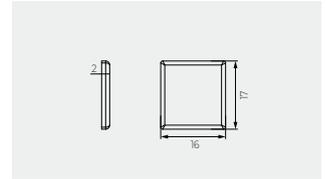
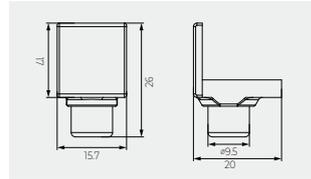
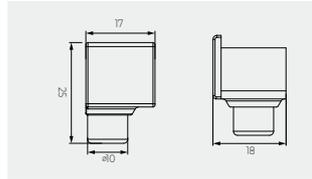
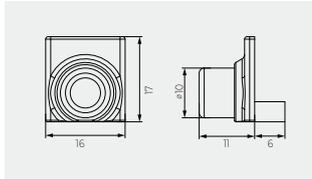
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max.Run Length (M)	CC/CV
R	--	DC24V	3.7	60	16.1	62.5	5	CV
G	--	DC24V	3.7	187	49.8	62.5	5	CV
B	--	DC24V	3.7	36	9.6	62.5	5	CV
3000±150	≥90	DC24V	3.7	177	47.2	62.5	5	CV
RGBW	--	DC24V	15	437	29.1	62.5	5	CV

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	60	16.1	62.5	5	CV
G	--	DC24V	3.7	187	49.8	62.5	5	CV
B	--	DC24V	3.7	36	9.6	62.5	5	CV
4000 ⁴⁰⁰ / ₃₀₀	≥90	DC24V	3.7	186	49.5	62.5	5	CV
RGBW	--	DC24V	15	446	29.7	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	60	16.1	62.5	5	CV
G	--	DC24V	3.7	187	49.8	62.5	5	CV
B	--	DC24V	3.7	36	9.6	62.5	5	CV
6500±500	≥90	DC24V	3.7	185	49.4	62.5	5	CV
RGBW	--	DC24V	15	446	29.7	62.5	5	CV

Cable Entry (Unit: mm)

Integral End Cap (IP67)



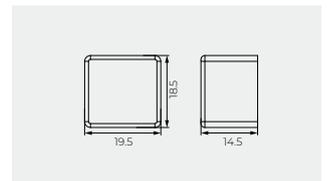
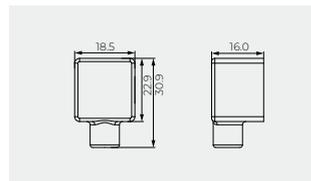
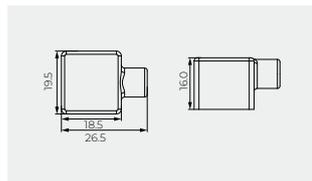
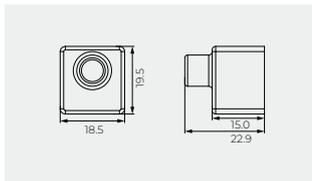
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Silicone end cap (IP67)



Front Cable Entry

Side Cable Entry

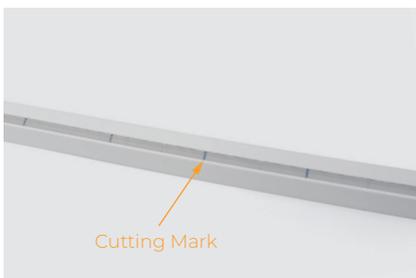
Bottom Cable Entry

Closed End cap

Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
Applicable to Solder Free End Cap		OD: 5.0mm / Inner core: 20AWG	●●	Red V+, Black V-
		OD: 5.0mm / Inner core: 20AWG	●○●	Brown V+, White W, Yellow WW
PVC Cable		OD: 5.5mm / Inner core: 20AWG	●●●●	Black V+, Blue B, Green G, Red R
		OD: 5.5mm / Inner core: 22AWG	●○●●●	Black V+, White W, Blue B, Green G, Red R
Waterproof Connector with PVC Cable		OD: 5.0mm / Inner core: 20AWG M12Male / Female connector	●●	Red V+, Black V-
		OD: 5.0mm / Inner core: 20AWG M12Male / Female connector	●○●	Brown V+, White W, Yellow WW
		OD: 5.5mm / Inner core: 20AWG M12Male / Female connector	●●●●	Black V+, Blue B, Green G, Red R
		OD: 5.5mm / Inner core: 22AWG M12Male / Female connector	●○●●●	Black V+, White W, Blue B, Green G, Red R
Applicable to Integral End Cap		OD: 6.0mm / Inner core: 20AWG	●●	Red V+, Black V-
		OD: 6.0mm / Inner core: 20AWG	●○●	Black V+, White W, Yellow WW
Silicone Cable		OD: 6.0mm / Inner core: 20AWG	●●●●	Black V+, Blue B, Green G, Red R
		OD: 6.4mm / Inner core: Red/Black--20AWG Green/Blue/White--22AWG	●○●●●	Black V+, White W, Blue B, Green G, Red R
Waterproof Connector with Silicone Cable		OD: 6.0mm / Inner core: 20AWG M12Male / Female connector	●●	Red V+, Black V-
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connector	●○●	Black V+, White W, Yellow WW
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connector	●●●●	Black V+, Blue B, Green G, Red R
		OD: 6.4mm / Inner core: Red/Black--20AWG Green/Blue/White--22AWG M12Male / Female connector	●○●●●	Black V+, White W, Blue B, Green G, Red R

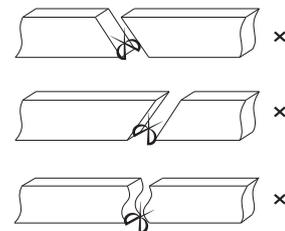
Cutting Mark



Remark: the black marker is the cutting position



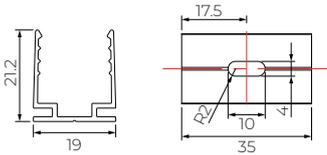
Use professional scissors to cut vertically at the cutting mark



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

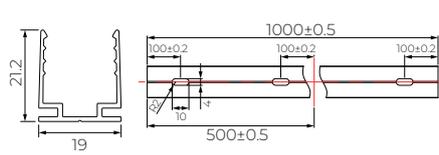
Accessories (Unit: mm)

Aluminium Mounting clips



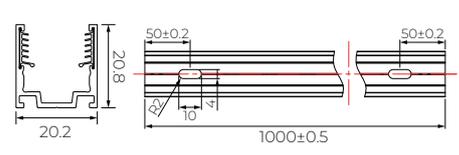
Length: 35X19X21.2
 Accessories:
 Screw M3X16 (SUS304)

Aluminium Profile



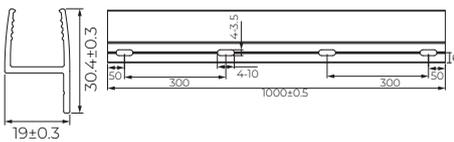
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 Accessories:
 Screw M3X16 (SUS304)

Internal Gear Profile



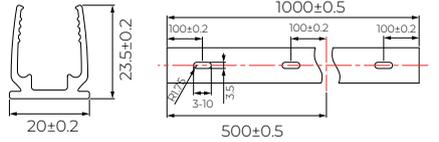
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 Accessories:
 Screw M3X16 (SUS304)

PC Profile



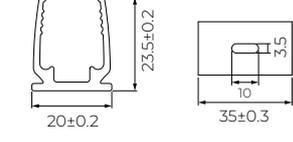
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PC Profile



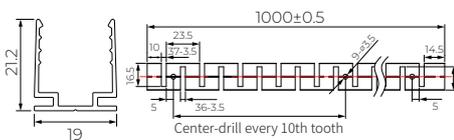
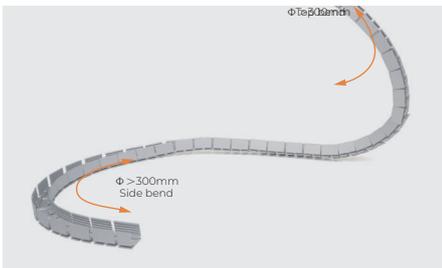
Length: 1000X20X23.5
 Accessories:
 Screw M3X16 (SUS304)

PC Clip



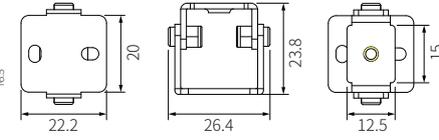
Length: 35X20X23.5
 Accessories:
 Screw M3X16 (SUS304)

Curved profile



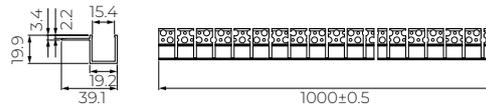
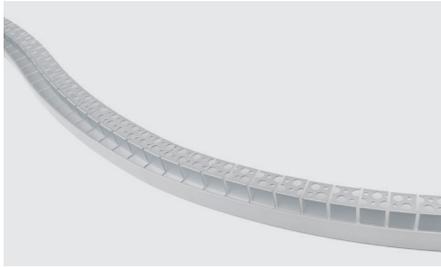
Length: 1000X19X21.2
 Accessories:
 Screw M3X16 (SUS304)

Adjustable Angle Clip
 (use with aluminum clips or profile)



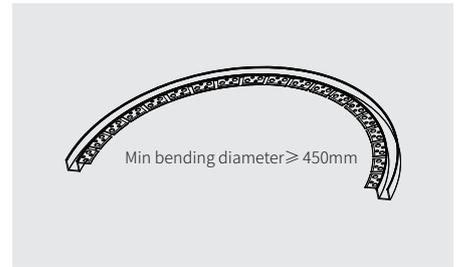
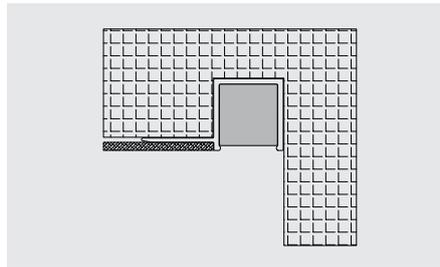
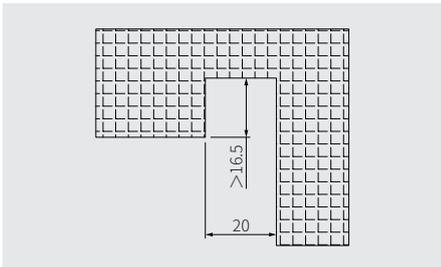
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 Accessories:
 Screw M3x25 (SUS304)

Flexible Recessed
Single-Sided Aluminum Profile

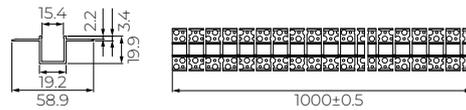
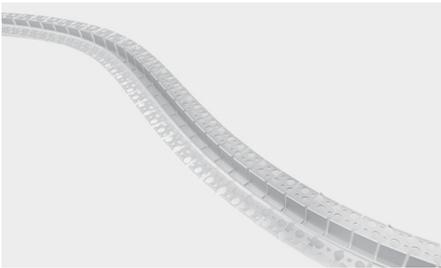


Length:
1000x39.1x19.9
Accessories:
Screw M3X16 (SUS304)

Installation method of flexible recessed single-sided aluminum profile

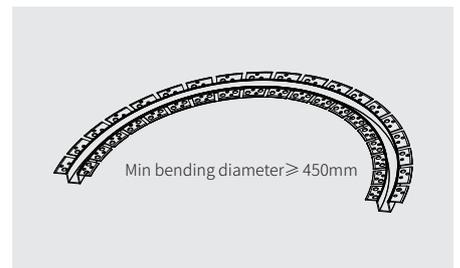
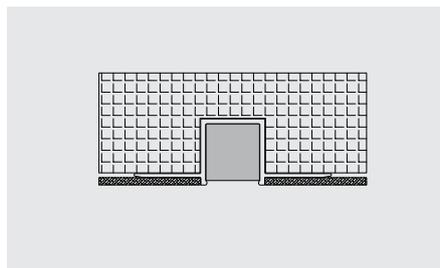
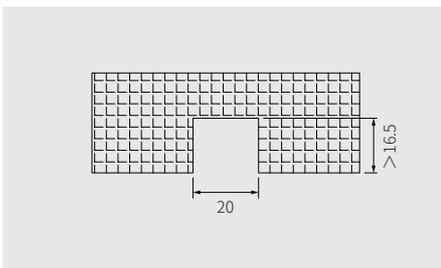


Flexible Recessed
Double-Sided Aluminum Profile

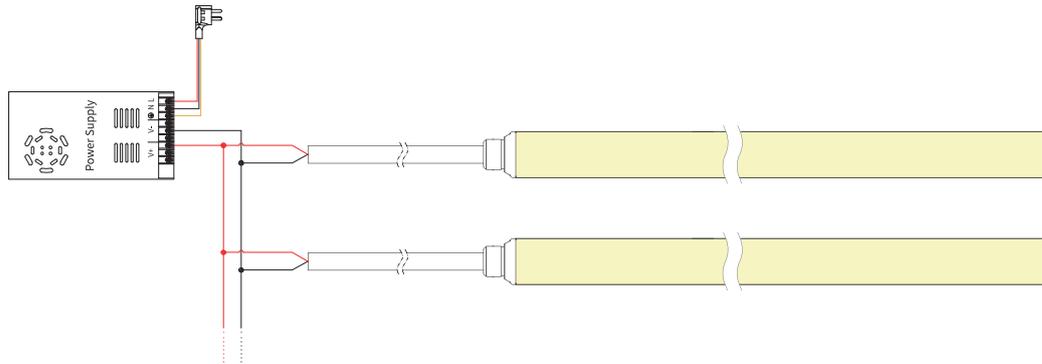


Length:
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Accessories:
Screw M3X16 (SUS304)

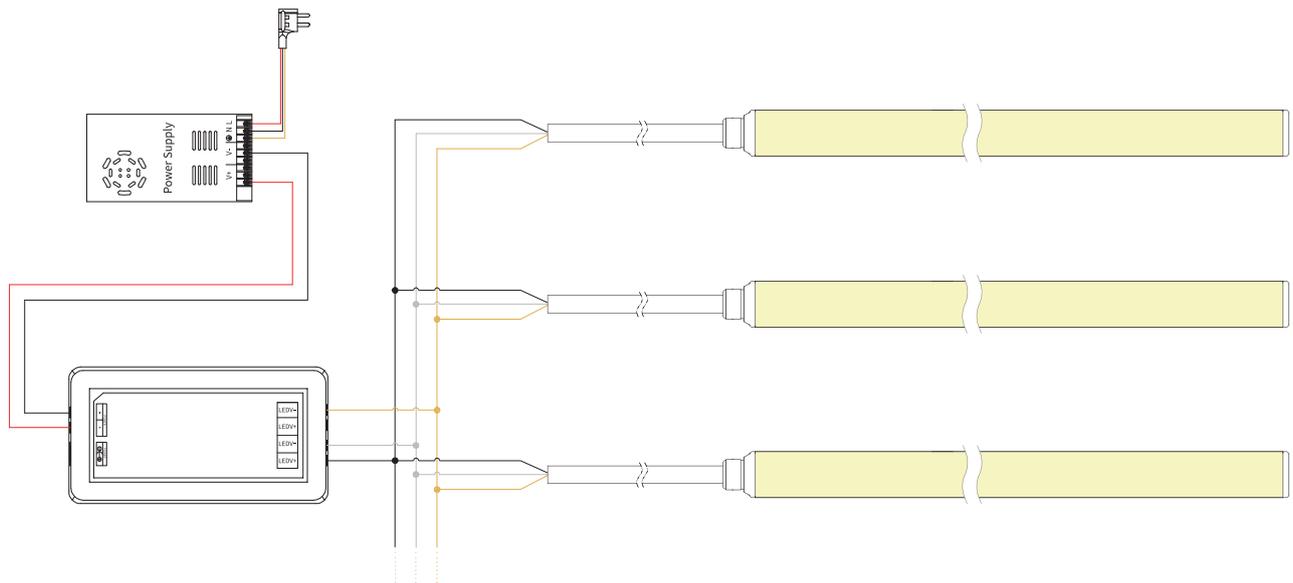
Installation method of flexible recessed double-sided aluminum profile



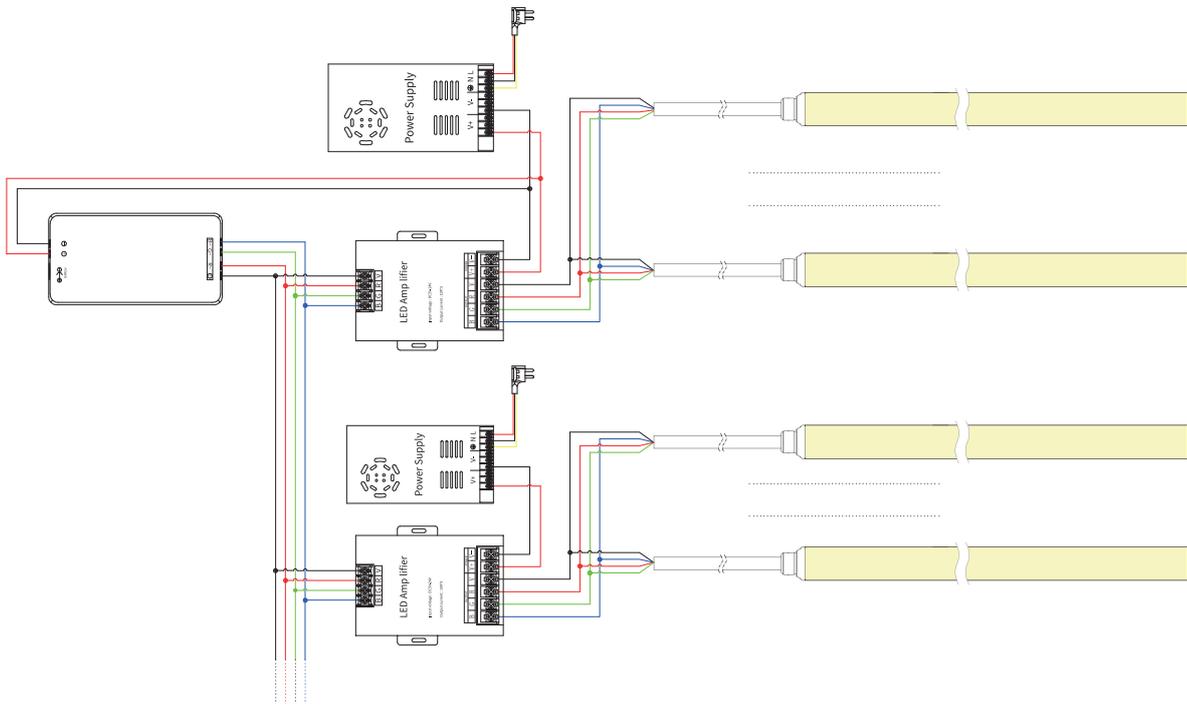
Single Color Connection Diagram



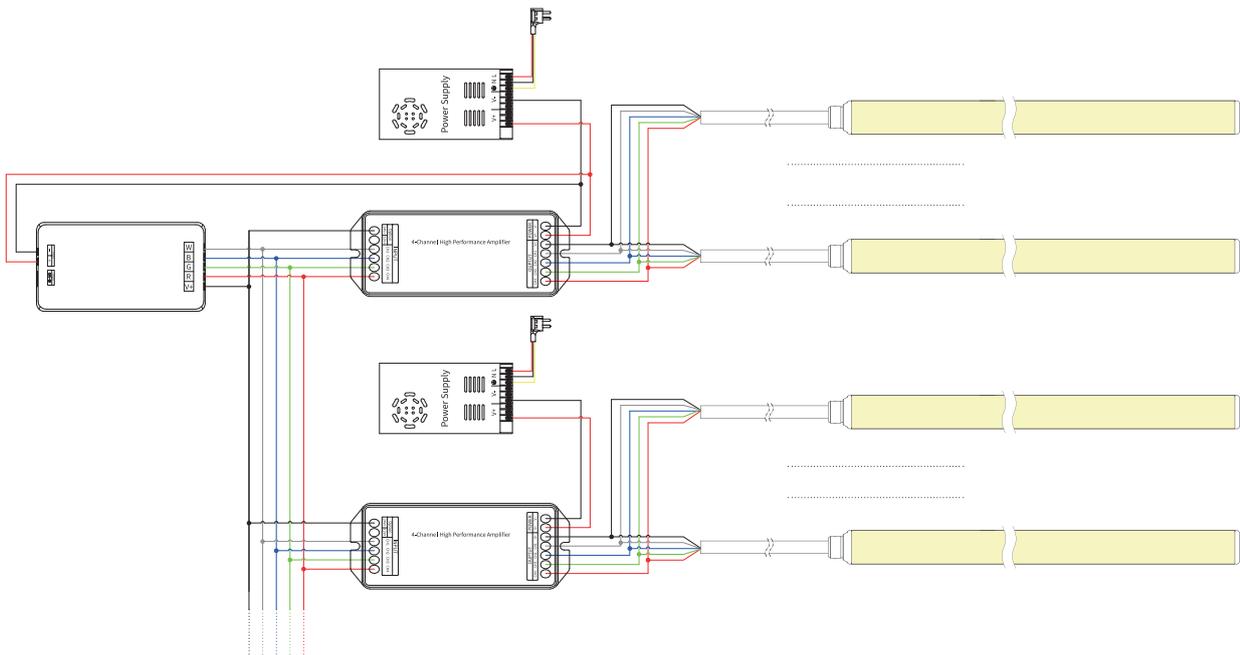
Tunable white Connection Diagram



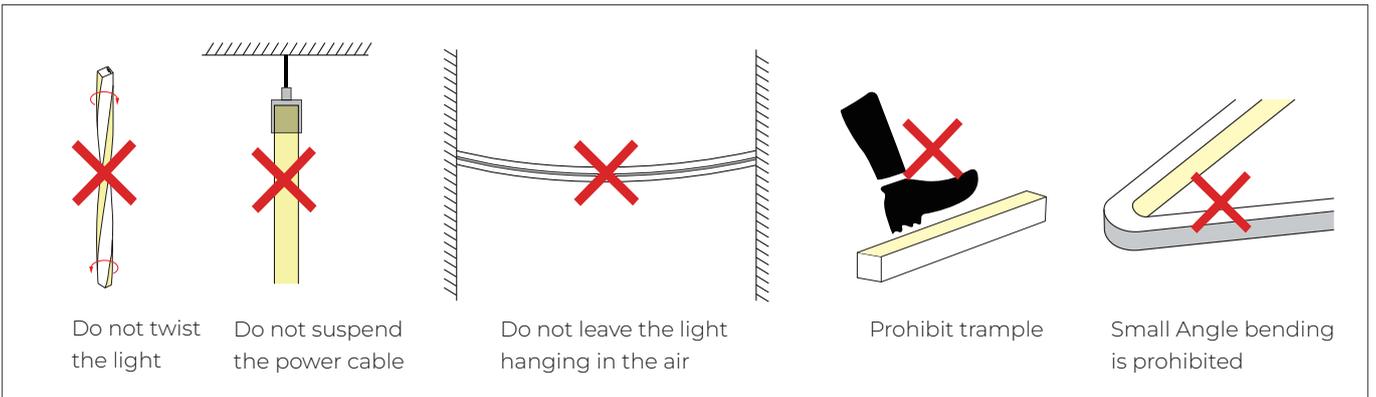
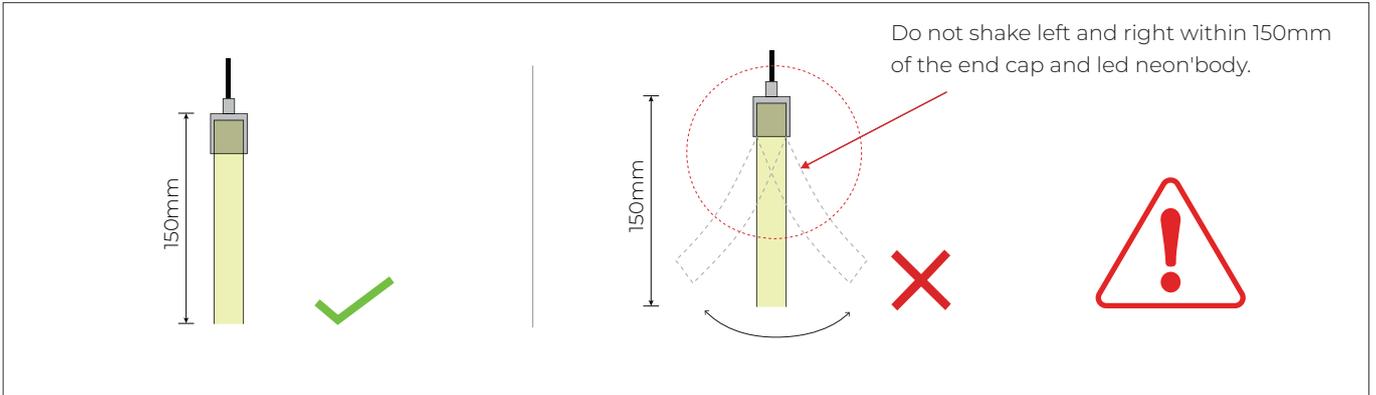
RGB Connection Diagram



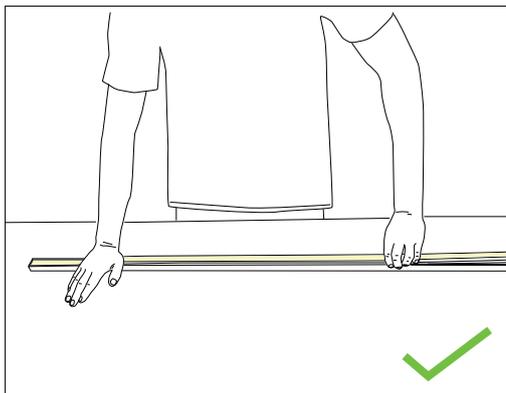
RGBW Connection Diagram



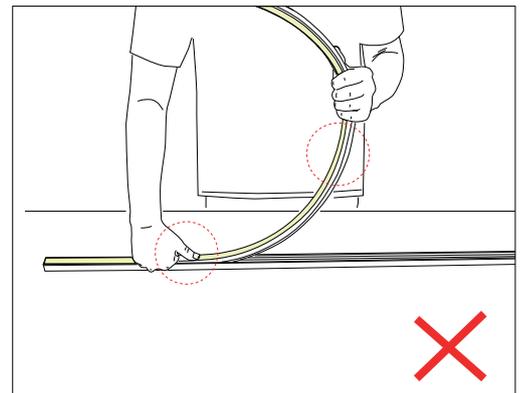
Installation Precautions



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.

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:

Current of the light	Specifications of the cable								
	L=1M	L=2M	L=4M	L=6M	L=8M	L=10M	L=12M	L=14M	L=16M
1A	AWG26	AWG23	AWG21	AWG18	AWG18	AWG17	AWG16	AWG15	AWG15
2A	AWG23	AWG21	AWG18	AWG16	AWG15	AWG14	AWG13	AWG12	AWG12
3A	AWG22	AWG18	AWG16	AWG14	AWG13	AWG12	AWG11	AWG11	AWG10
4A	AWG21	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.

Tests showed that methanol 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 methanol and benzenes. It is recommended to remove methanol 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.