

PRODUCT SPECIFICATION

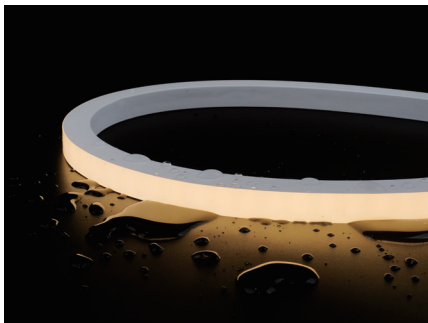
TOP BEND NEON STRIP

- Top Bend

T1617

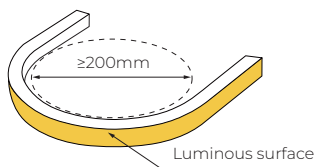
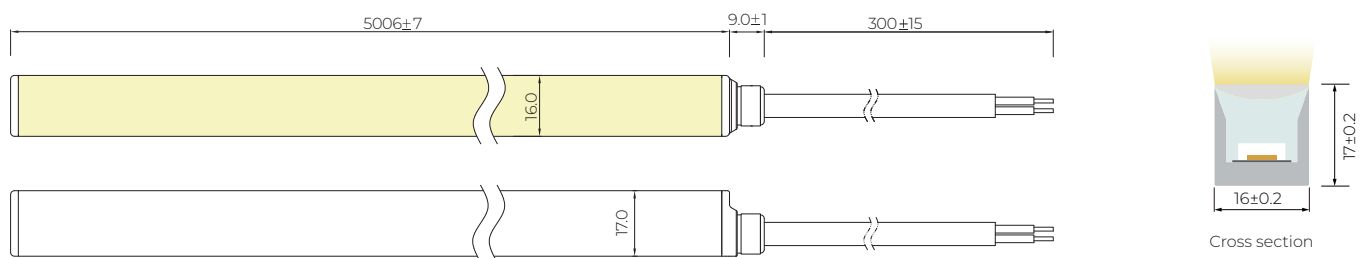
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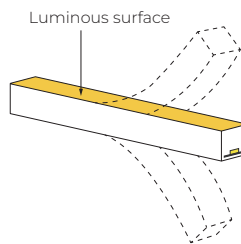


- ELITE is a silicone co-extrusion IP67 neon offers UV resistance, chemical stability, and against abrasion.
- Vertical bending with uniform light and dimmable function.
- Production Length is up to 30m.
- Support freely configurable in length by small cutting increments.
- Matt treatment optional for smooth surface and resistant to dust, the SDCM of finished product can be minimized to 3 steps.
- 3-year warranty for pixel models, 5-year warranty for others, long-life LED > 50,000 hrs, 1 Bin.

Dimension structure (Unit: mm)



Min Bending diameter



Bend vertical only

Electrical Parameter

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

Specification

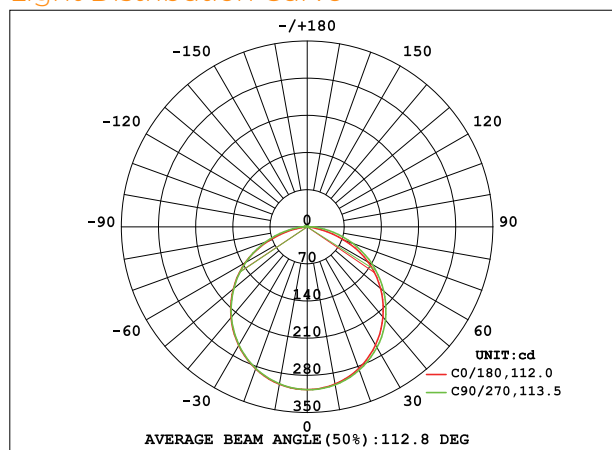
Power (w/m)	Efficacy (lm/w) @4000K	Max Ambient Temperature
5	CV : 89.6 CC : 71.9	55℃
10	CV : 82.5 CC : 69.9	45℃
15	CV : 83 CC : 68	35℃

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

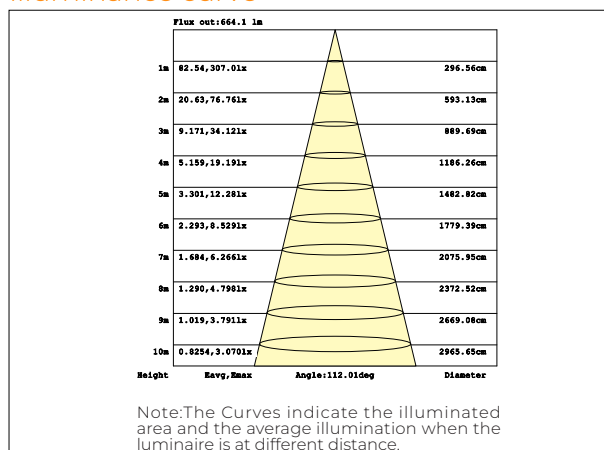
Length Standard

Length Range (M)	Final Length (mm)			Tolerance (mm)
	Integral end cap	Solder free end cap	Silicone end cap	
0<Neon Strip(L)≤5	L+6	L+32	L+5.5	±7
5<Neon Strip(L)≤10	L+6	L+32	L+5.5	±10
10<Neon Strip(L)≤15	L+6	L+32	L+5.5	±13
15<Neon Strip(L)≤20	L+6	L+32	L+5.5	±16
20<Neon Strip(L)≤25	L+6	L+32	L+5.5	±19
25<Neon Strip(L)≤30	L+6	L+32	L+5.5	±22
30<Neon Strip(L)≤35	L+6	L+32	L+5.5	±25

Light Distribution Curve

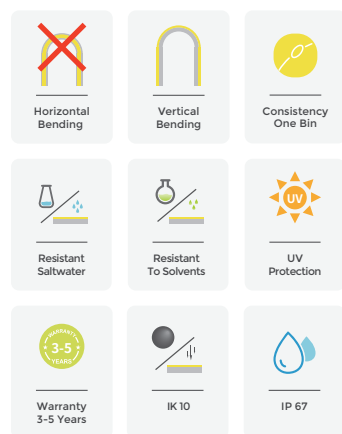


Illuminance curve



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.

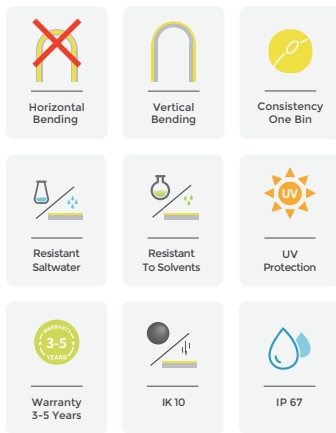
Parameter Table



- 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.
- For the load capacity of the solder free end cap, please refer to <The Maximum Load Capacity of Power Cables>
- 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)	SDCM	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
1800±100	--	≥90	DC24V	5	307	61.3	50	9	CV
				10	600	60.0	50	7	CV
				15	864	57.6	50	5	CV
2100±150	--	≥90	DC24V	5	348	69.5	50	9	CV
				10	665	66.5	50	7	CV
				15	977	65.1	50	5	CV
2400±150	--	≥90	DC24V	5	379	75.8	50	9	CV
				10	739	73.9	50	7	CV
				15	1071	71.4	50	5	CV
2700	≤3	≥90	DC24V	5	411	82.2	50	9	CV
				10	776	77.6	50	7	CV
				15	1148	76.5	50	5	CV
3000	≤3	≥90	DC24V	5	423	84.5	50	9	CV
				10	797	79.7	50	7	CV
				15	1184	78.9	50	5	CV
3500	≤3	≥90	DC24V	5	441	88.1	50	9	CV
				10	827	82.7	50	7	CV
				15	1236	82.4	50	5	CV
4000	≤3	≥90	DC24V	5	448	89.6	50	9	CV
				10	825	82.5	50	7	CV
				15	1245	83.0	50	5	CV
5000	≤4	≥90	DC24V	5	458	91.5	50	9	CV
				10	818	81.8	50	7	CV
				15	1287	85.8	50	5	CV
6500	≤5	≥90	DC24V	5	448	89.6	50	9	CV
				10	831	83.1	50	7	CV
				15	1274	84.9	50	5	CV
Red	--	--	DC24V	5	165	32.9	50	14	CV
				10	307	30.7	50	10	CV
				15	483	32.2	50	7	CV
Green	--	--	DC24V	5	473	94.6	50	11	CV
				10	780	78.0	50	9	CV
				15	1014	67.6	50	7	CV
Blue	--	--	DC24V	5	90	18.0	50	10	CV
				10	164	16.4	50	7	CV
				15	230	15.3	50	5	CV
Yellow	--	--	DC24V	5	130	25.9	50	11	CV
				10	243	24.3	50	9	CV
				15	374	24.9	50	7	CV
Orange	--	--	DC24V	5	140	27.9	50	11	CV
				10	285	28.5	50	9	CV
				15	455	30.3	50	7	CV
Pink	--	--	DC24V	5	360	71.9	50	9	CV
				10	640	64.0	50	7	CV
				15	1040	69.3	50	5	CV

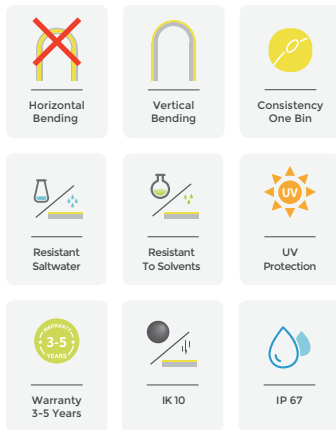


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- The output frequency of the dimmer of the constant-current led light should be less than 2K Hz, and the output PWM can control the led light.

Single color (CC)

CCT(K)	SDCM	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
1800±100	--	≥90	DC24V	5	256	51.2	50	24	CC
				10	487	48.7	50	15	CC
				15	702	46.8	50	12	CC
2100±150	--	≥90	DC24V	5	285	56.9	50	24	CC
				10	547	54.7	50	15	CC
				15	783	52.2	50	12	CC
2400±150	--	≥90	DC24V	5	311	62.1	50	24	CC
				10	593	59.3	50	15	CC
				15	855	57.0	50	12	CC
2700	≤3	≥90	DC24V	5	335	66.9	50	24	CC
				10	637	63.7	50	15	CC
				15	921	61.4	50	12	CC
3000	≤3	≥90	DC24V	5	346	69.1	50	24	CC
				10	664	66.4	50	15	CC
				15	962	64.1	50	12	CC
3500	≤3	≥90	DC24V	5	358	71.5	50	24	CC
				10	690	69.0	50	15	CC
				15	999	66.6	50	12	CC
4000	≤3	≥90	DC24V	5	360	71.9	50	24	CC
				10	699	69.9	50	15	CC
				15	1020	68.0	50	12	CC
5000	≤4	≥90	DC24V	5	367	73.3	50	24	CC
				10	715	71.5	50	15	CC
				15	1046	69.7	50	12	CC
6500	≤5	≥90	DC24V	5	362	72.3	50	24	CC
				10	702	70.2	50	15	CC
				15	1019	67.9	50	12	CC
Red	--	--	DC24V	5	141	28.2	50	32	CC
				10	291	29.1	50	22	CC
				15	--	--	--	--	--
Green	--	--	DC24V	5	406	81.1	50	20	CC
				10	676	67.6	50	14	CC
				15	869	57.9	50	9	CC
Blue	--	--	DC24V	5	77	15.4	50	22	CC
				10	138	13.8	50	15	CC
				15	197	13.1	50	12	CC
Yellow	--	--	DC24V	5	111	22.2	50	30	CC
				10	219	21.9	50	21	CC
				--	--	--	--	--	--
Orange	--	--	DC24V	5	120	23.9	50	30	CC
				10	257	25.7	50	20	CC
				--	--	--	--	--	--
Pink	--	--	DC24V	5	308	61.6	50	22	CC
				10	579	57.9	50	15	CC
				15	852	56.8	50	12	CC

*Red/Yellow/Orange constant current solution maximum power limit is 10W/M



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- 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%.
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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	10	780	78.0	71.4	5	CV
6500 ±500	≥90	DC24V	10	830	83.0	71.4	5	CV
2700+6500	≥90	DC24V	11	924	84.0	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	72	21.9	83.3	5	CV
G	--	DC24V	3.3	260	78.8	83.3	5	CV
B	--	DC24V	3.3	43	13.0	83.3	5	CV
RGB	--	DC24V	10	380	38.0	83.3	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	83	22.0	83.3	5	CV
G	--	DC24V	3.7	306	81.6	83.3	5	CV
B	--	DC24V	3.7	54	14.4	83.3	5	CV
2700±150	≥90	DC24V	3.7	261	69.6	83.3	5	CV
RGBW	--	DC24V	15	735	49.0	83.3	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	83	22.0	83.3	5	CV
G	--	DC24V	3.7	306	81.6	83.3	5	CV
B	--	DC24V	3.7	54	14.4	83.3	5	CV
3000±150	≥90	DC24V	3.7	270	72.1	83.3	5	CV
RGBW	--	DC24V	15	749	49.9	83.3	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	83	22.0	83.3	5	CV
G	--	DC24V	3.7	306	81.6	83.3	5	CV
B	--	DC24V	3.7	54	14.4	83.3	5	CV
4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24V	3.7	281	74.9	83.3	5	CV
RGBW	--	DC24V	15	759	50.6	83.3	5	CV

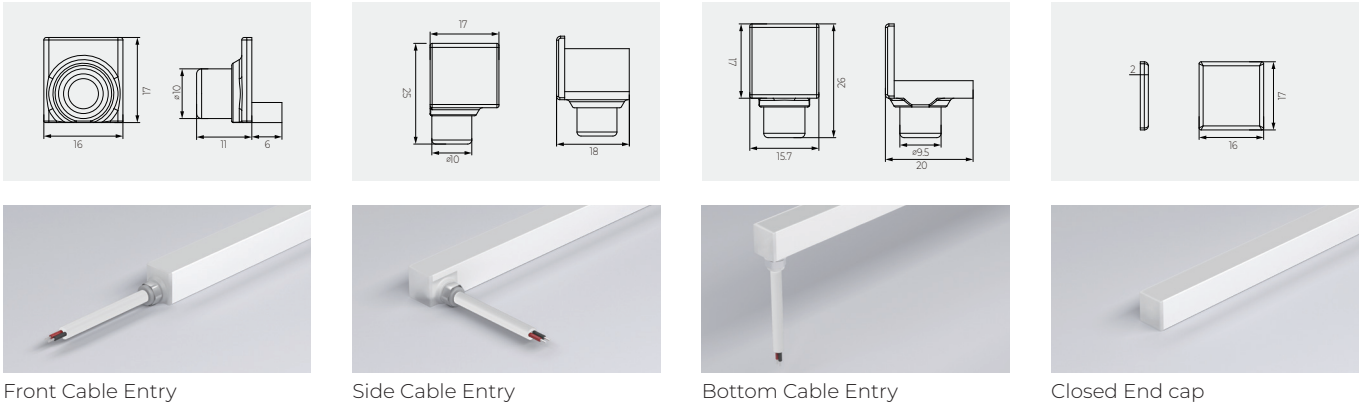
CCT(K)	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R	--	DC24V	3.7	83	22.0	83.3	5	CV
G	--	DC24V	3.7	306	81.6	83.3	5	CV
B	--	DC24V	3.7	54	14.4	83.3	5	CV
6500±500	≥90	DC24V	3.7	286	76.2	83.3	5	CV
RGBW	--	DC24V	15	770	51.3	83.3	5	CV

RGBW Pixel DMX512

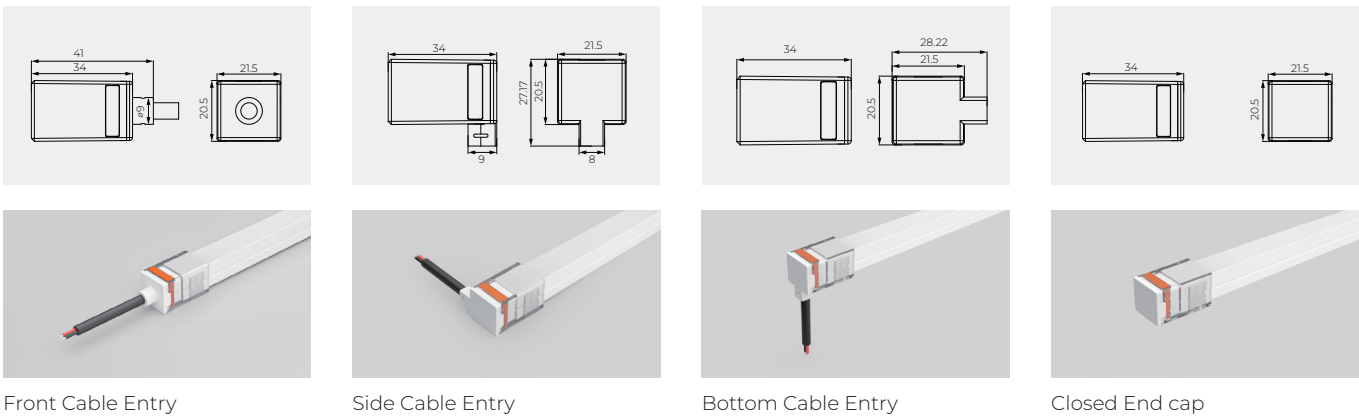
CCT(K)	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	Pixel(PCs)	ICModel
R	--	DC24V	5	59	11.8	125	5	8	UCS512CL
G	--	DC24V	5	189	37.7	125	5	8	UCS512CL
B	--	DC24V	5	38	7.5	125	5	8	UCS512CL
W: 4000 ⁺⁴⁰⁰ ₋₂₀₀	≥80	DC24V	5	160	32.0	125	5	8	UCS512CL
RGBW	--	DC24V	15	450	30.0	125	5	8	UCS512CL

Cable Entry (Unit: mm)

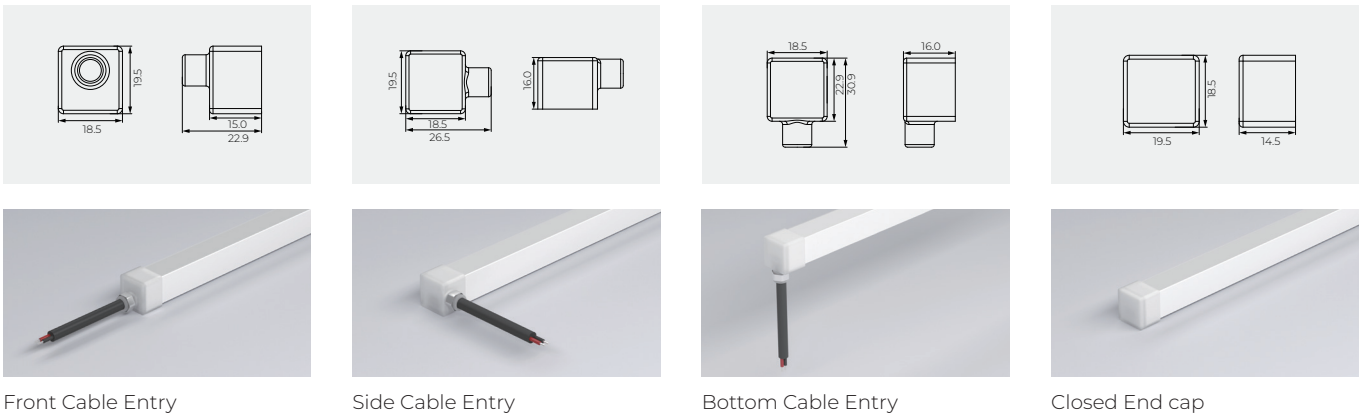
Integral End Cap (IP67)



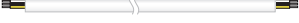
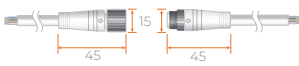
Solder Free End Cap without screws (IP67)



Silicone end cap (IP67)



Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
Applicable to Solder Free End Cap PVC Cable		OD: 5.0mm / Inner core: 20AWG	●●	Red V+, Black V-
		OD: 5.0mm / Inner core: 20AWG	●○●	Brown V+, White W, Yellow WW
		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 connecto	●●	Red V+, Black V-
		OD: 5.0mm / Inner core: 20AWG M12Male / Female connecto	●○●	Brown V+, White W, Yellow WW
		OD: 5.5mm / Inner core: 20AWG M12Male / Female connecto	●●●●	Black V+, Blue B, Green G, Red R
		OD: 5.5mm / Inner core: 22AWG M12Male / Female connecto	●○●●●	Black V+, White W, Blue B, Green G, Red R
Applicable to Integral End Cap Silicone Cable		OD: 6.0mm / Inner core: 20AWG	●●	Red V+, Black V-
		OD: 6.0mm / Inner core: 20AWG	●○●	Black V+, White W, Yellow WW
		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 connecto	●●	Red V+, Black V-
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connecto	●○●	Black V+, White W, Yellow WW
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connecto	●●●●	Black V+, Blue B, Green G, Red R
		OD: 6.4mm / Inner core: Red/Black--20AWG Green/Blue/White--22AWG M12Male / Female connecto	●○●●●	Black V+, White W, Blue B, Green G, Red R
		OD: 6.4mm / Inner core: Red/Black--20AWG Green/Blue/White--22AWG M12Male / Female connecto	●○●●●	DMX512: Black V-, White BI/BO, Blue AI/AO, Green PI/PO, Red V+

Cable's Maximum load capacity

a、Assembled end cap with single-ended power supply, its maximum load power is as follows:

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

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

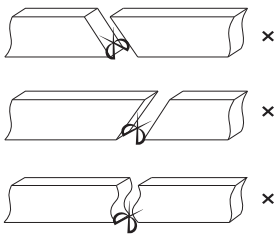
Cutting Mark



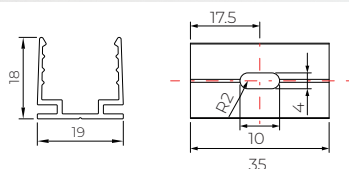
Remark:
the black marker is the cutting
position



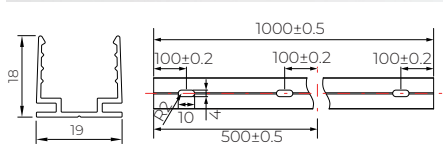
Use professional scissors to cut vertically
at the cutting mark



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

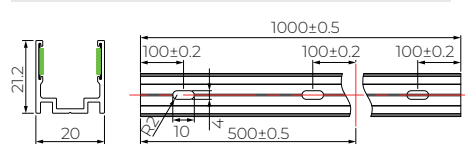


PC Profile

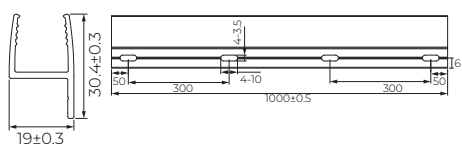


PC Profile

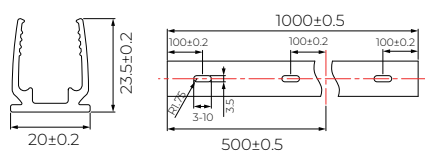
A close-up, perspective view of a grey metal extrusion profile. The profile has a U-shaped cross-section with a textured, mesh-like interior surface. It is set against a plain, light grey background.



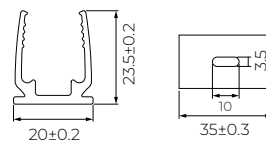
PC Clip



Screw M3X16 (SUS304)

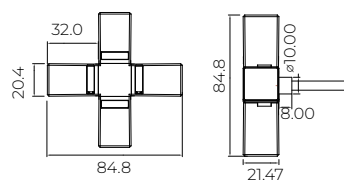


Screw M3X16 (SUS304)

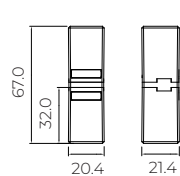


Screw M3X16 (SUS304)

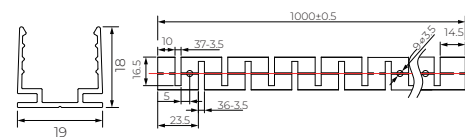
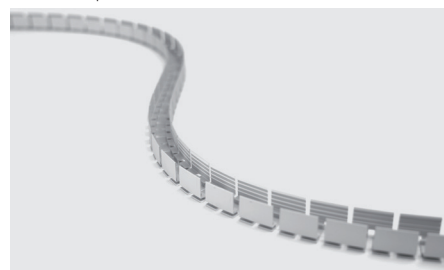
A 3D printed white cross-shaped connector with a black cable attached to one arm. The connector has four arms extending from a central square junction. The central junction has a small square opening with orange-colored internal features. The black cable is connected to the bottom-left arm.



To connect 4pcs of neon after you cut it

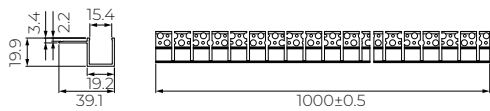
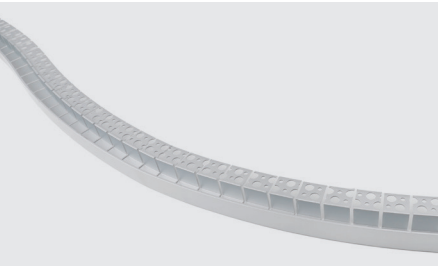


To connect 2pcs of neon after you cut it



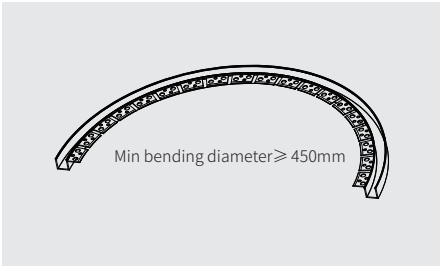
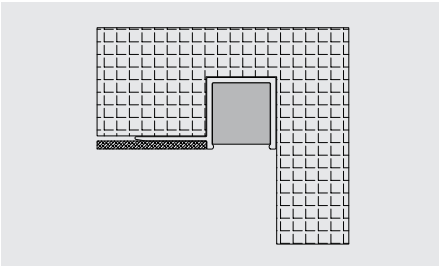
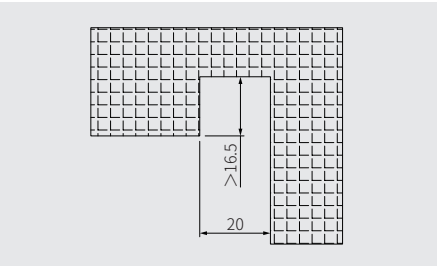
Screw M3X16 (SUS304)

Flexible Recessed
Single-Sided Aluminum Profile

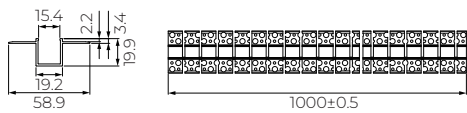
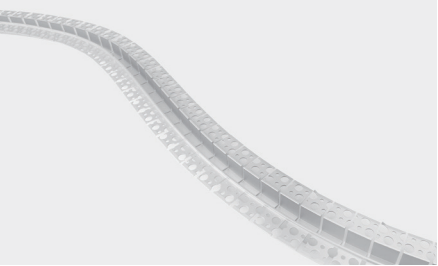


Length:
1000x39.1x19.9
Accessories:
Screw M3X16 (SUS304)

Installation method of flexible recessed single-sided aluminum profile

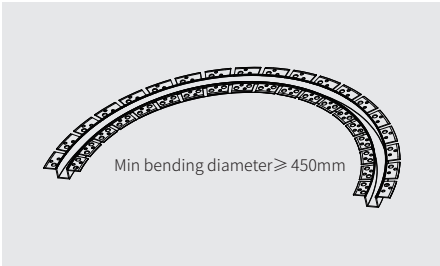
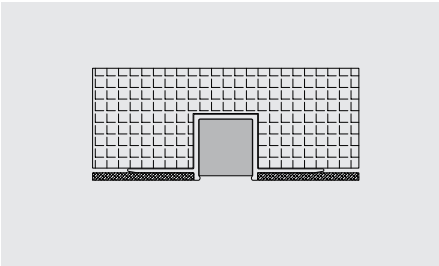
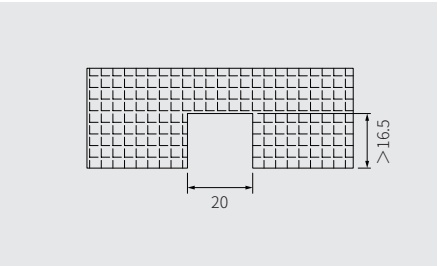


Flexible Recessed
Double-Sided Aluminum Profile

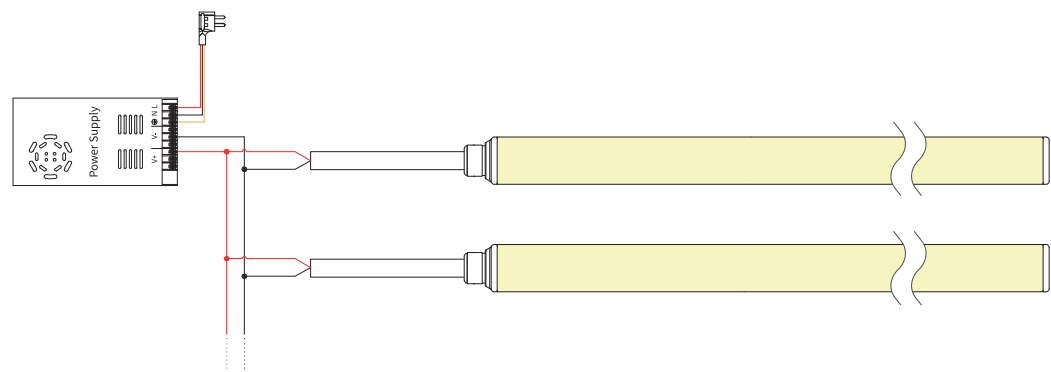


Length:
1000x58.9x19.9
Accessories:
Screw M3X16 (SUS304)

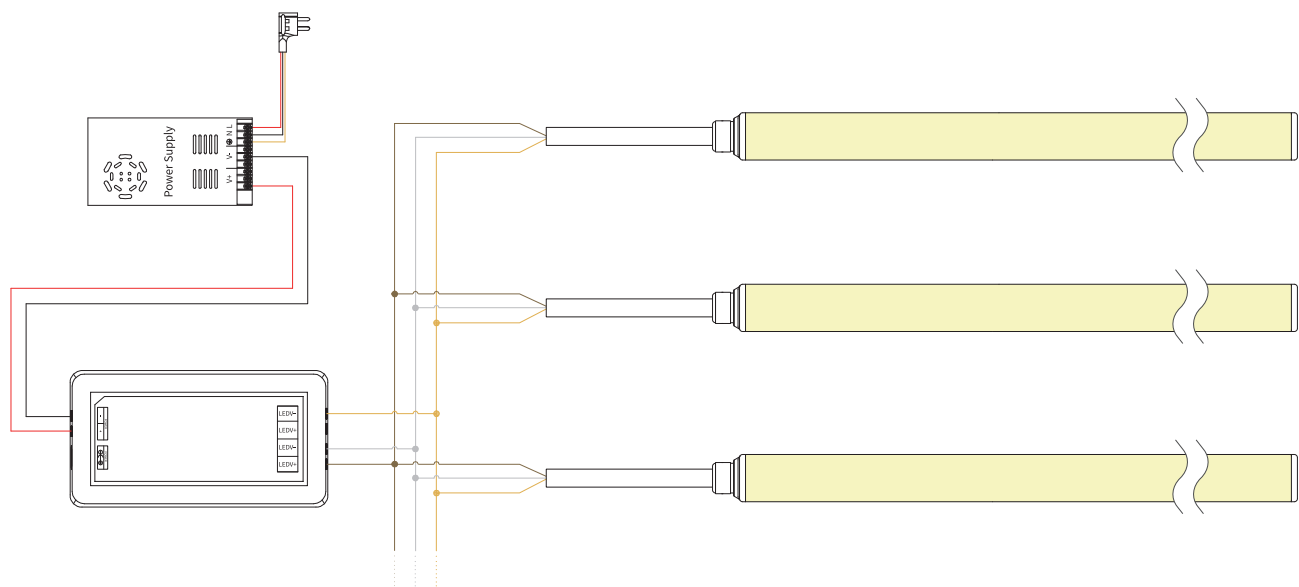
Installation method of flexible recessed double-sided aluminum profile



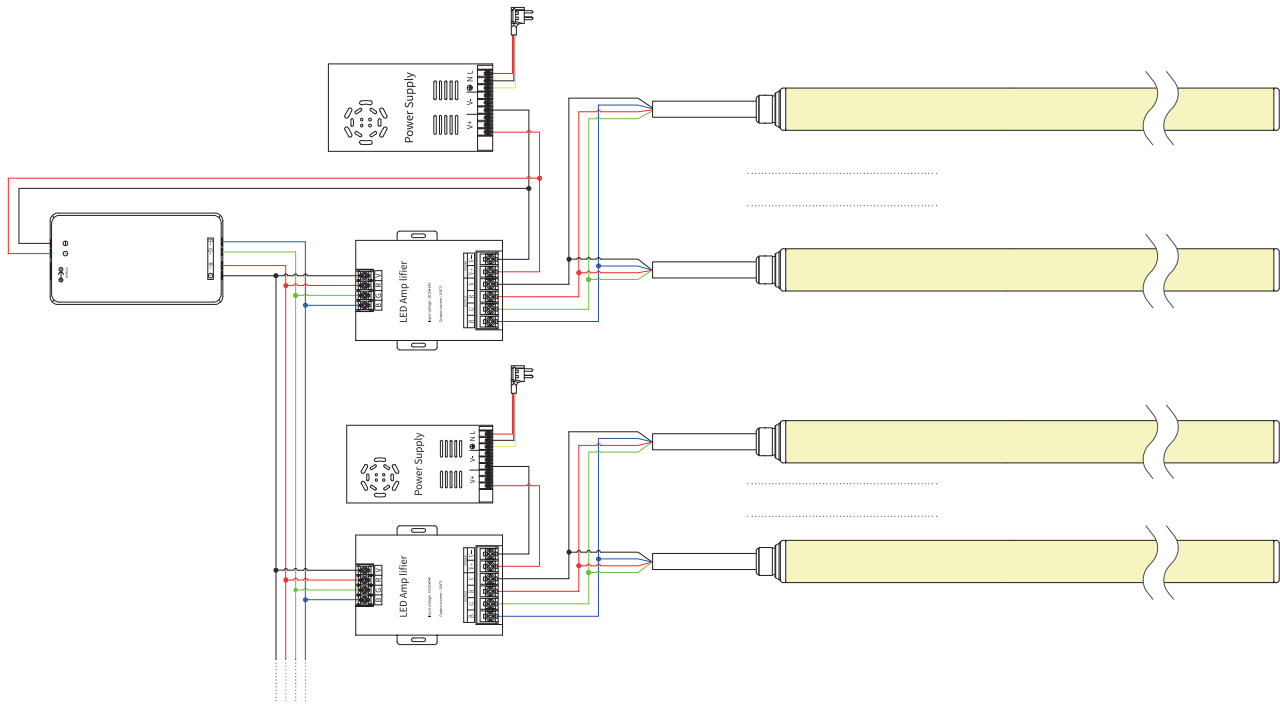
Single Color Connection Diagram



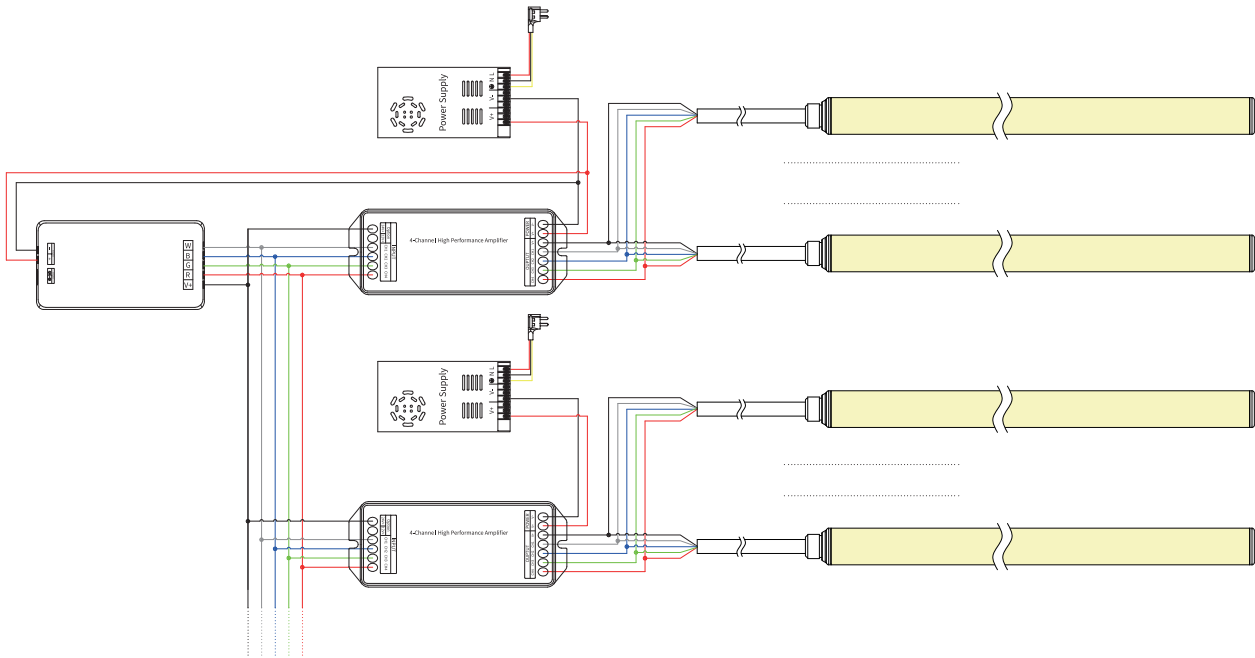
Tunable white Connection Diagram



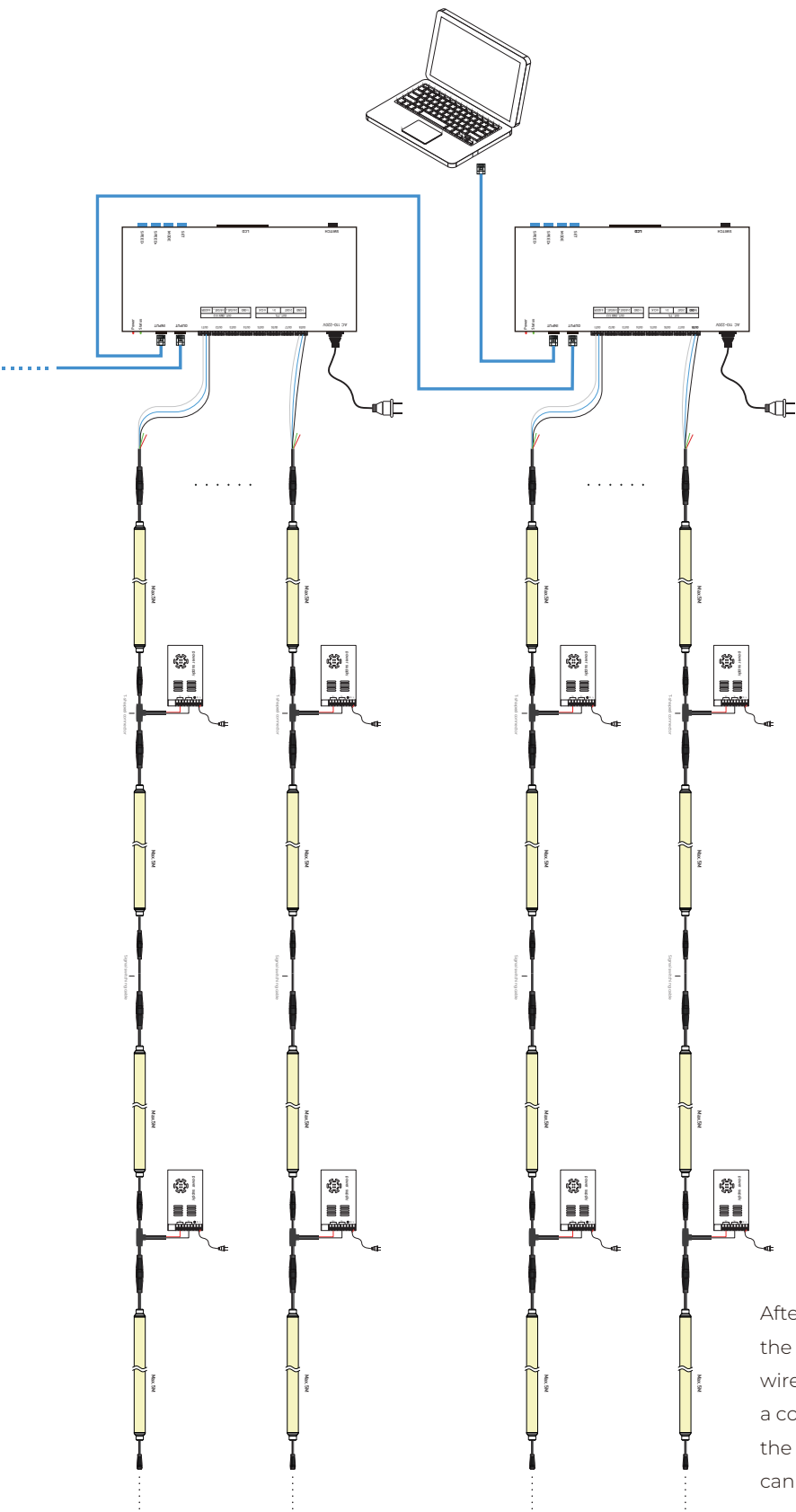
RGB Connection Diagram



RGBW Connection Diagram

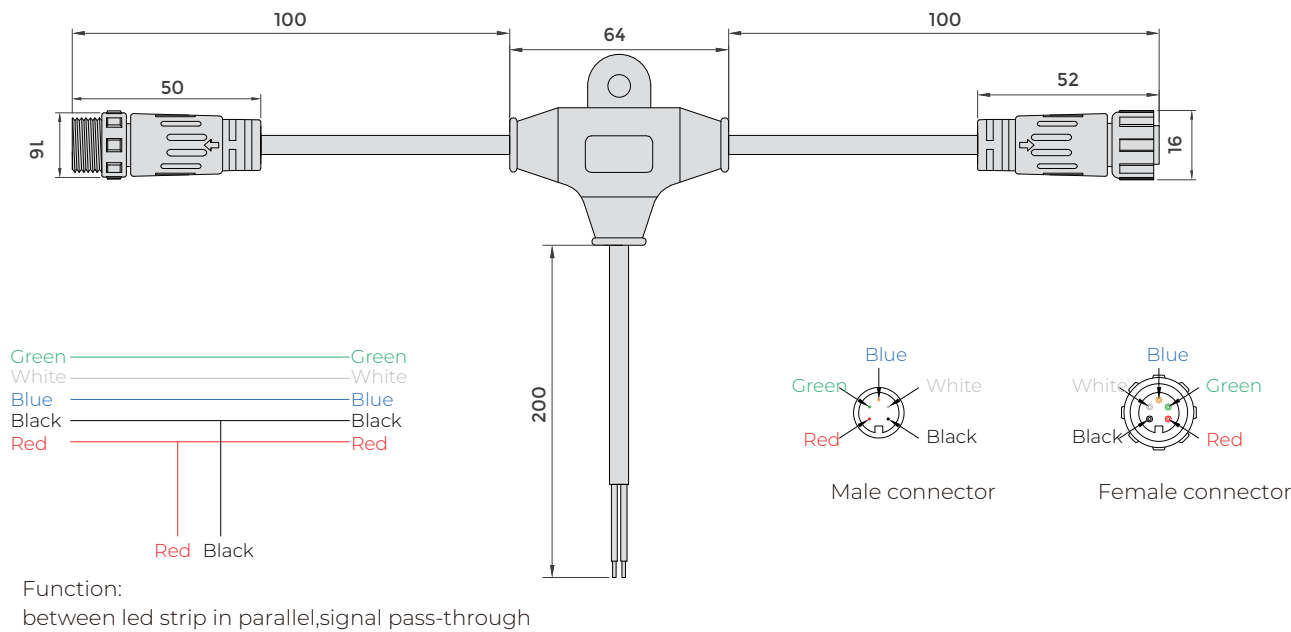


DMX512 Connection Diagram

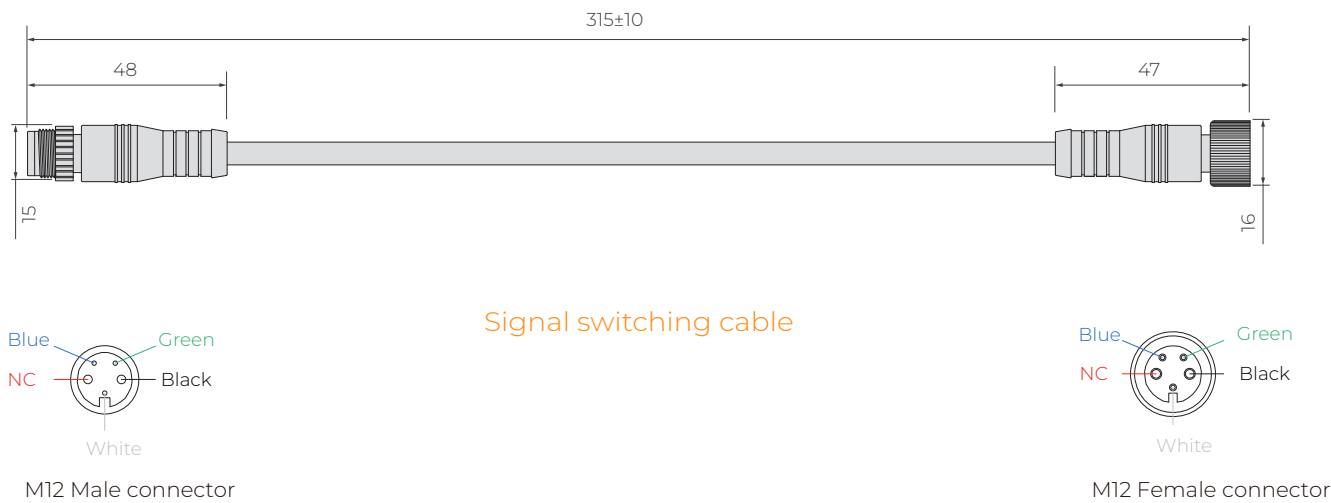


After the led strip is connected to the signal wire and power supply wire correctly, It is necessary to use a controller or corder to address the led strip ,then the controller can run the control effect program.

Accessories for DMX512 series (Unit: mm)

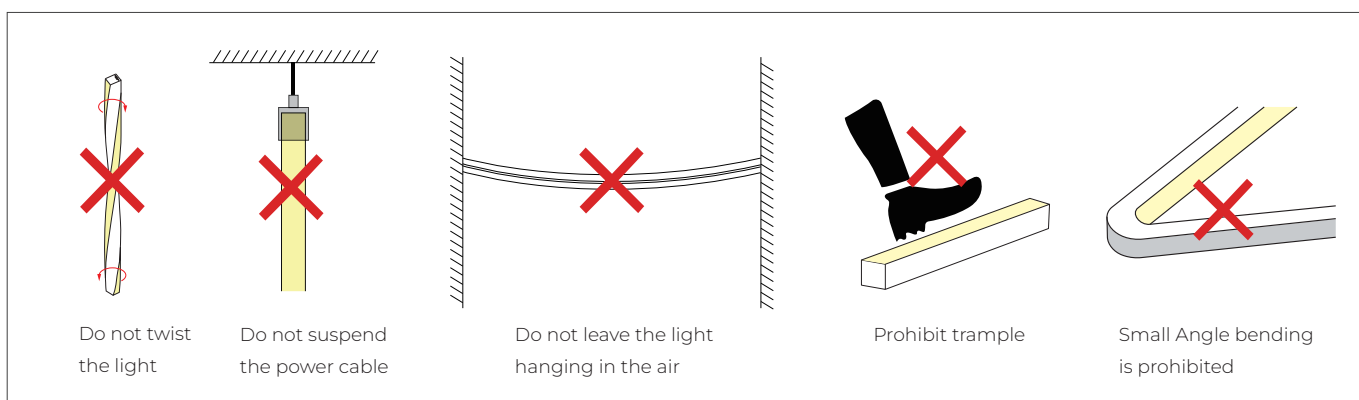
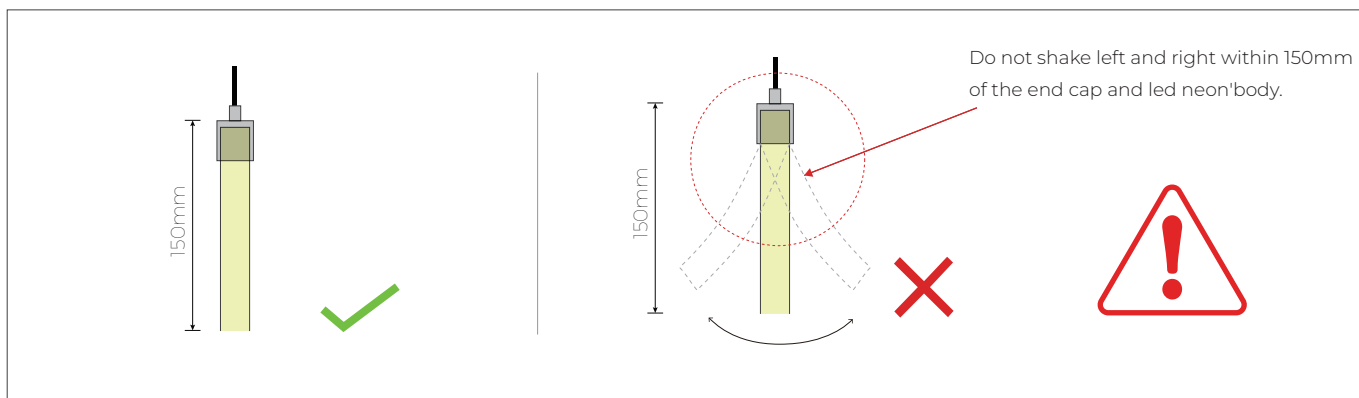


T-type 3 channel connector

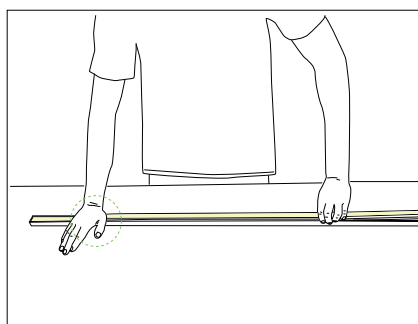


Signal switching cable

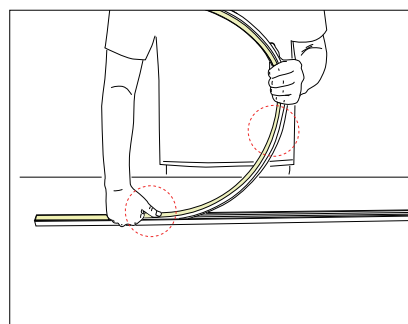
Installation Precautions



Put it in the profile



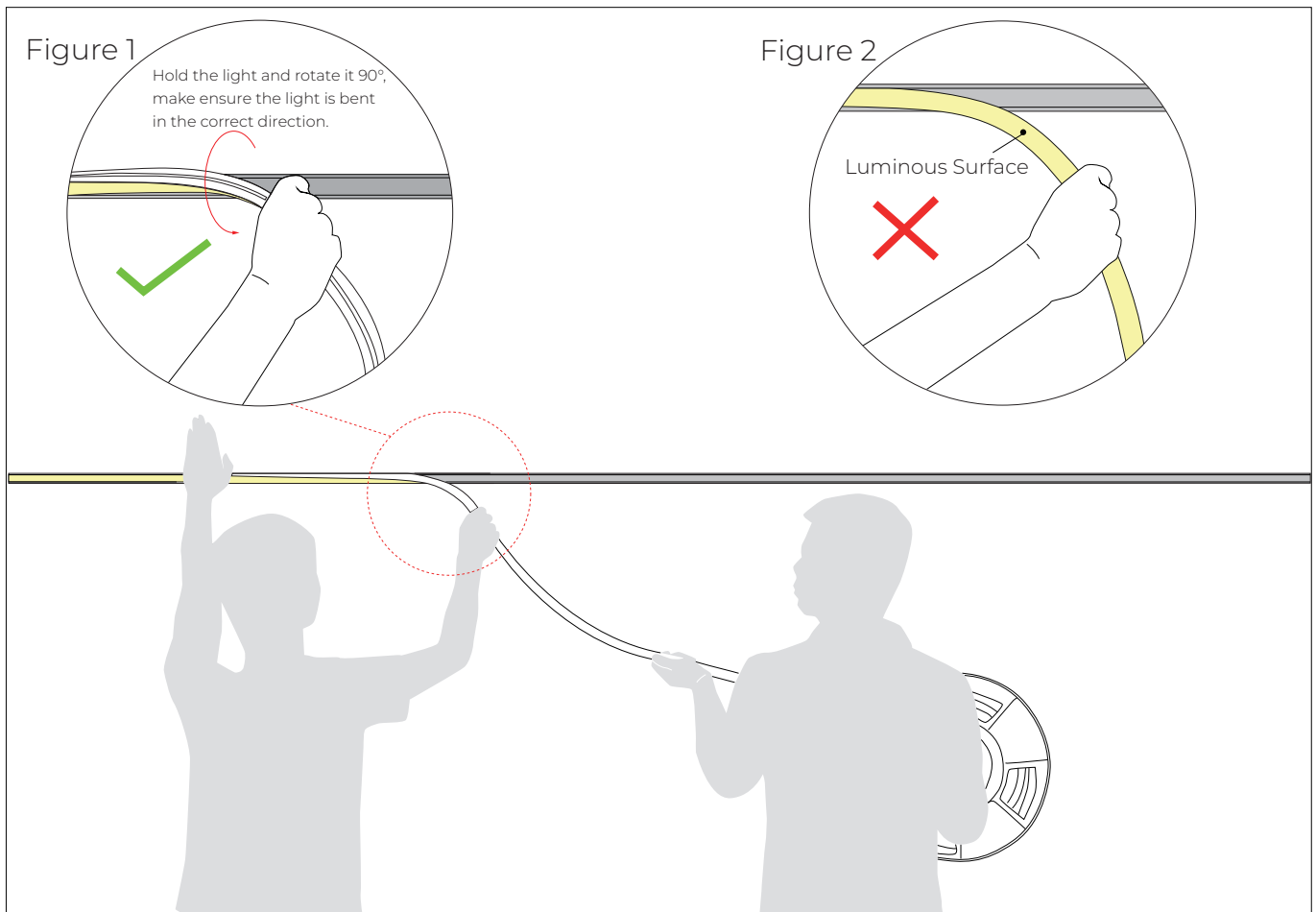
- Please press the LED strip with your palm to slowly insert the LED strip into the groove, and gently straighten the LED strip above the groove with your right hand.
- Try to keep the LED strip in a flat state during the installation process.



- 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 -- Side Mounted

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



1.Installer:

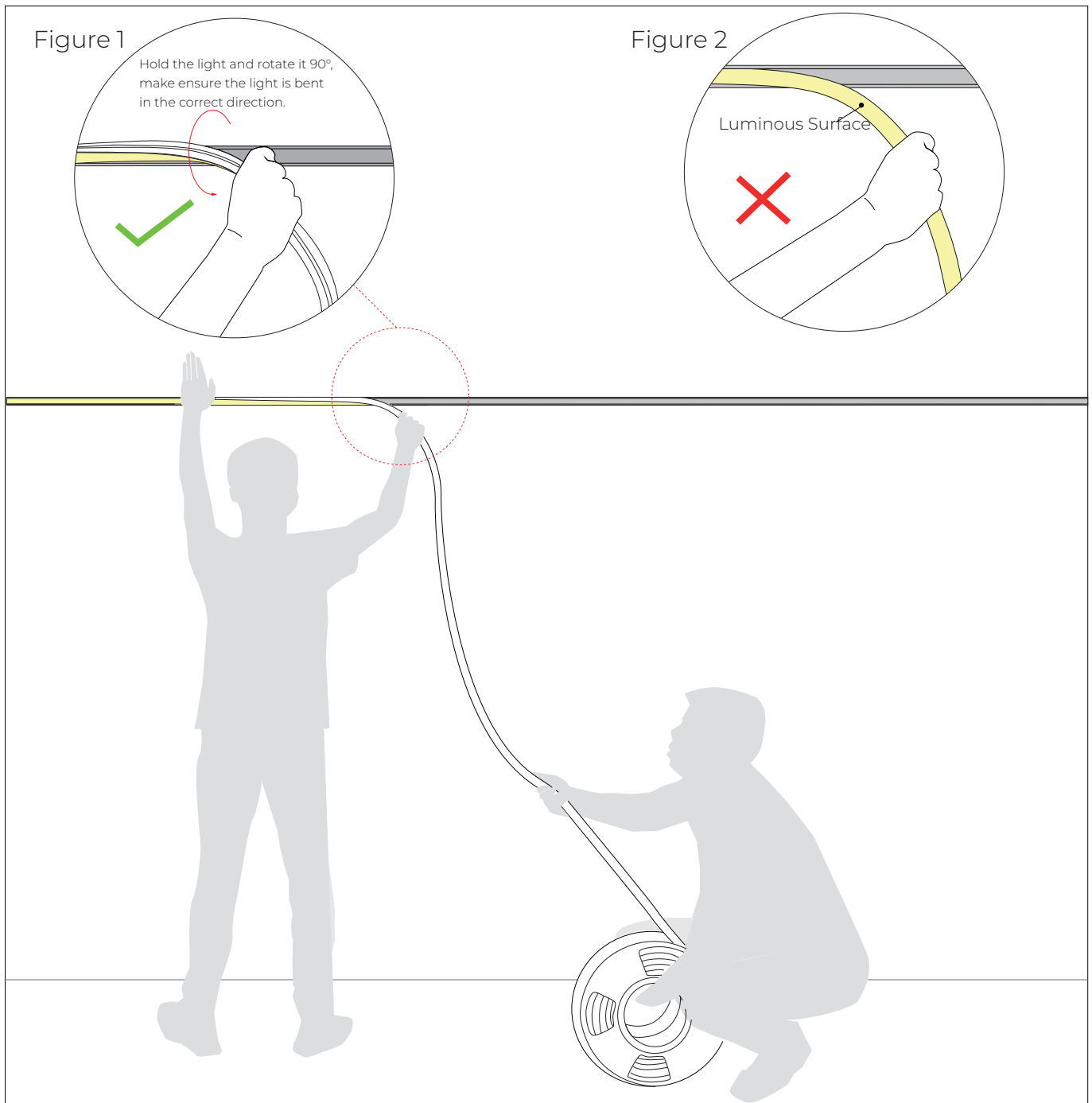
- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand, hold it and rotate it 90 ° to droop it in the direction of your hand. See Figure 1.
- Do not bend the luminous surface to the side. See Figure 2.

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.

Installation Precautions -- Side Mounted

(If the length of the light is more than 5 meters, two persons must work together to install it.)



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.

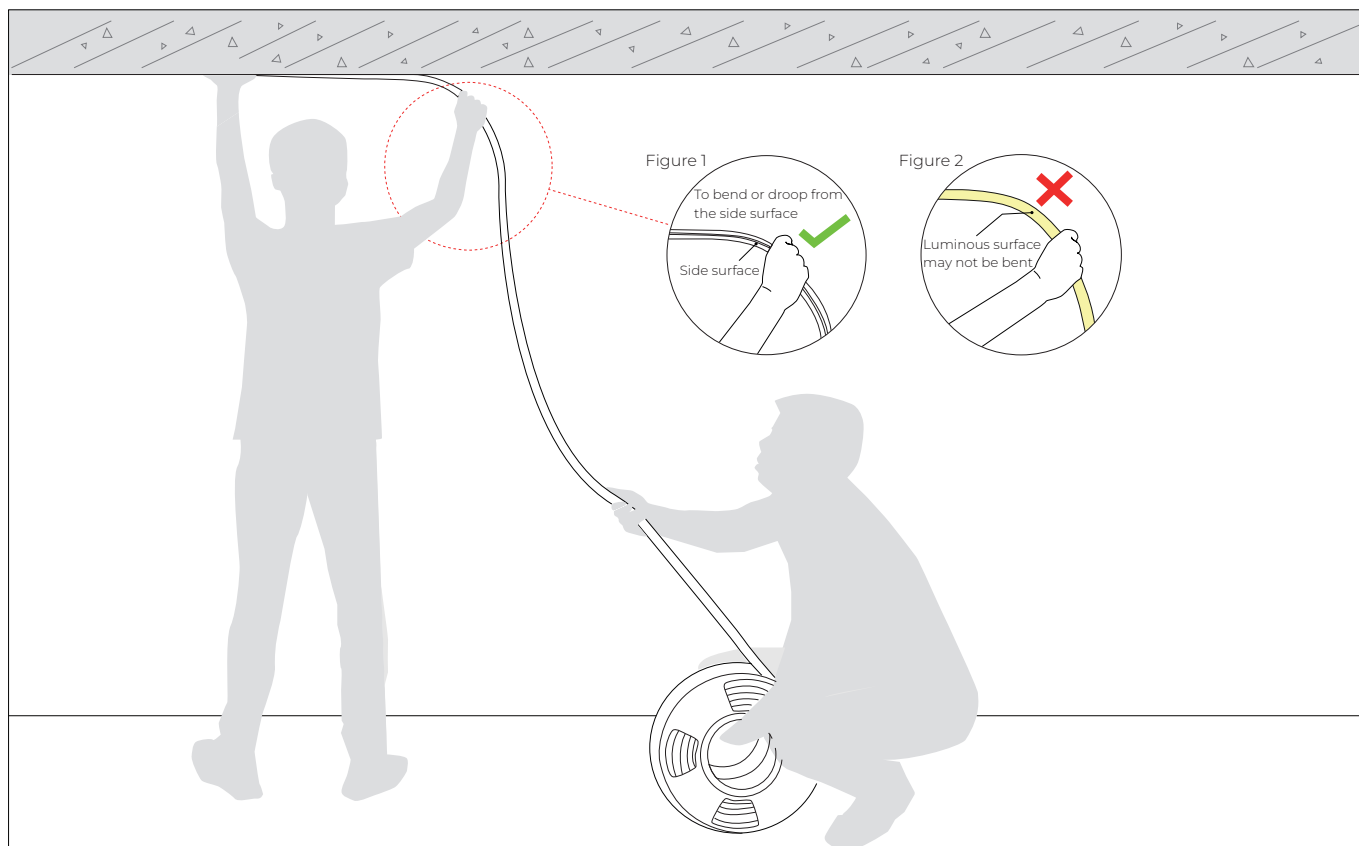
-Do not bend the luminous surface to the side. See Figure 2.

2.Assistant:

-Cooperate with the installer to slowly deliver the light to installer. Do not pull or twist the light during the installation.

Installation Precautions -- Top Mounted

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



1.Installer:

- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with your right hand so that it droop naturally. See Figure 1.
- Luminous surface may not be bent. See Figure 2.

2.Assistant:

- Cooperate with the installer to slowly deliver the light to installer. Do not pull or twist the light during the 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.

BE A TRUSTED LED STRIP MANUFACTURER

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