

GRILITELUX

PRODUCT SPECIFICATION

TOP BEND NEON STRIP

- ---

Top Bend

T1615

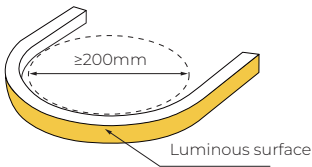
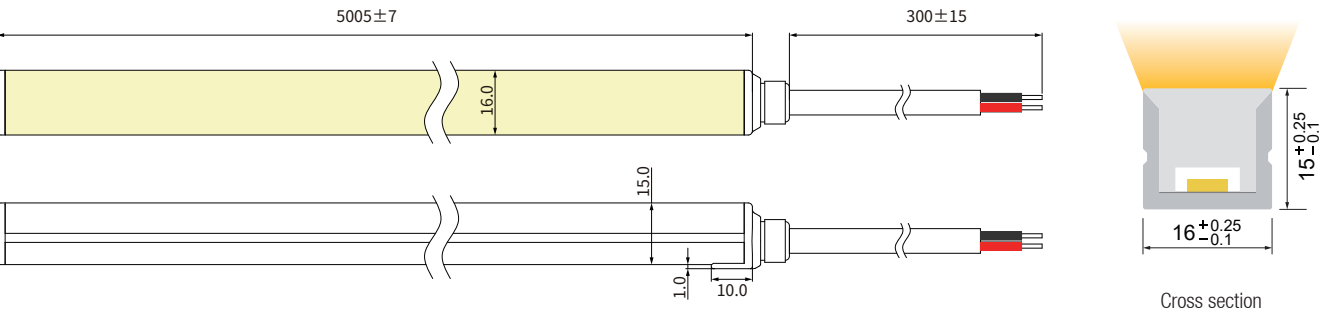
Shenzhen GRILIGHT Technology Co.,Ltd

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Web: www.grillite.com Contact: sale@grillight.com



- It is made of Dow Chemical SILASTIC™ ET-7021 silicone rubber, which provides high transparency and high strength.
- 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 and UV resistance.
- Excellent toughness, simple and stylish appearance, delicate and unique.
- 3-year warranty for pixel models, 5-year warranty for others, long-life LED ≥ 50000 hrs.

Dimension structure (Unit: mm)



Min Bending diameter

Electrical Parameter

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

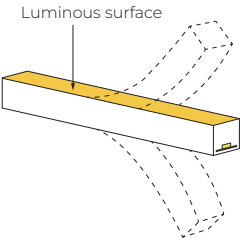
Specification

Power (w/m)	Efficacy (lm/w) @4000K	Max Ambient Temperature
10	57.5	45°C

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

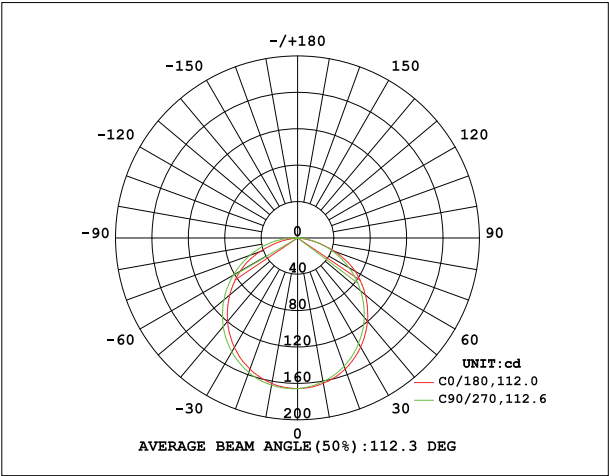
Length Standard

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



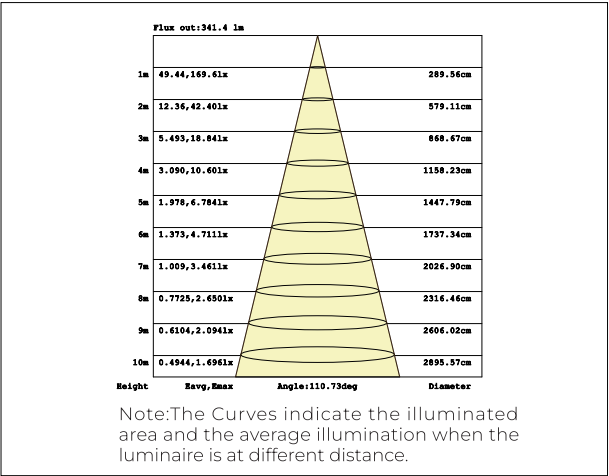
Bend vertical only

Light Distribution Curve

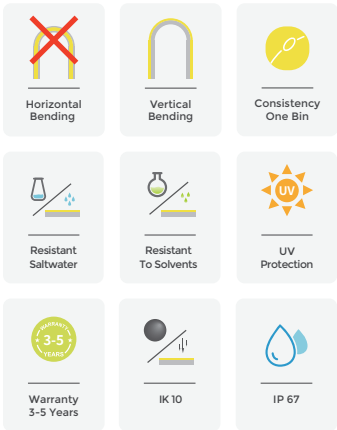


Note: The above data is based on 24V ,10W/M,single colour with 4000k colour temperature.If you need IES files for other types.Please contact our sales department.

Illuminance curve



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.

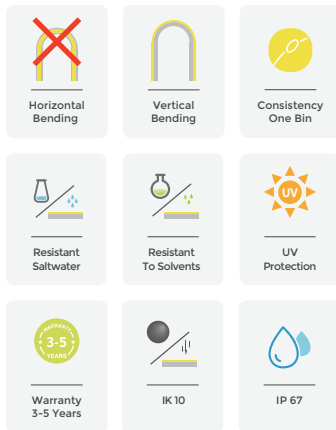
Single color

CCT(K)	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC\CV
2100±150	≥90	DC24V	10	460	46	50	17 (CC)	CC\CV
2400±150	≥90	DC24V	10	470	47	50	17 (CC)	CC\CV
2700±150	≥90	DC24V	10	550	55	50	17 (CC)	CC\CV
3000±150	≥90	DC24V	10	540	54	50	17 (CC)	CC\CV
3500±200	≥90	DC24V	10	585	58.5	50	17 (CC)	CC\CV
4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24V	10	575	57.5	50	17 (CC)	CC\CV
5000 ⁺⁵⁰⁰ ₋₃₀₀	≥90	DC24V	10	570	57	50	17 (CC)	CC\CV
6500±500	≥90	DC24V	10	575	57.5	50	17 (CC)	CC\CV
Red	--	DC24V	10	240	24	50	18 (CC)	CC\CV
Green	--	DC24V	10	550	55	50	17 (CC)	CC\CV
Blue	--	DC24V	10	110	11	50	17 (CC)	CC\CV
Yellow	--	DC24V	10	240	24	50	18 (CC)	CC\CV
Pink	--	DC24V	10	225	22.5	50	17 (CC)	CC\CV

Note: -The running length is base on Constant Current 24Vdc LED Strip.
-When use the solder free end cap or waterproof connector,the max run length of 10W/M is respectively 10M.

Free Cut

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	690	69.0	8.3	5	CV
3000±150	≥90	DC24V	10	710	71.0	8.3	5	CV
4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24V	10	730	73.0	8.3	5	CV
5000 ⁺⁵⁰⁰ ₋₃₀₀	≥90	DC24V	10	720	72.0	8.3	5	CV
6500±500	≥90	DC24V	10	710	71.0	8.3	5	CV



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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	5	275	55	50	5	CV
6500±500	≥90	DC24V	5	295	59	50	5	CV
2700+6500	≥90	DC24V	10	570	57	50	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	56	17	62.5	5	CV
G	--	DC24V	3.3	181	55	62.5	5	CV
B	--	DC24V	3.3	34	10.5	62.5	5	CV
RGB	--	DC24V	10	270	27	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	2.5	32	13	62.5	5	CV
G	--	DC24V	2.5	135	54	62.5	5	CV
B	--	DC24V	2.5	31	12.5	62.5	5	CV
W: 2400±200	≥80	DC24V	2.5	70	28	62.5	5	CV
RGBW	--	DC24V	10	340	34	62.5	5	CV

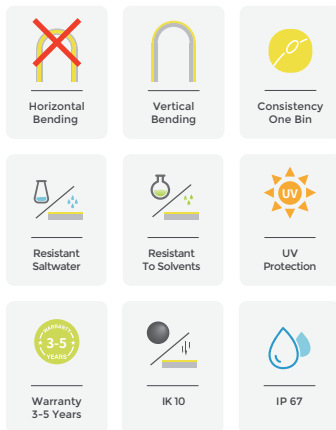
CCT(K)	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	2.5	32	13	62.5	5	CV
G	--	DC24V	2.5	135	54	62.5	5	CV
B	--	DC24V	2.5	31	12.5	62.5	5	CV
W: 2700±300	≥80	DC24V	2.5	158	63.5	62.5	5	CV
RGBW	--	DC24V	10	360	36	62.5	5	CV

CCT(K)	Ra	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	2.5	32	13	62.5	5	CV
G	--	DC24V	2.5	135	54	62.5	5	CV
B	--	DC24V	2.5	31	12.5	62.5	5	CV
W: 3700±300	≥80	DC24V	2.5	168	67.5	62.5	5	CV
RGBW	--	DC24V	10	370	37	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	2.5	32	13	62.5	5	CV
G	--	DC24V	2.5	135	54	62.5	5	CV
B	--	DC24V	2.5	31	12.5	62.5	5	CV
W: 5000 ⁺⁵⁰⁰ ₋₃₀₀	≥80	DC24V	2.5	140	56	62.5	5	CV
RGBW	--	DC24V	10	330	33	62.5	5	CV

Pixel RGB : Breakpoint Transmission

CCT(K)	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit length (mm)	Max Run Length (M)	Pixel (PCS)	IC Model
R	DC24V	5	48	9.6	125	7	8	WS2818
G	DC24V	5	184	36.8	125	7	8	WS2818
B	DC24V	5	32	6.4	125	7	8	WS2818
RGB	DC24V	12	262	21.8	125	7	8	WS2818



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Pixel RGBW : SPI

CCT(K)	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit length (mm)	Max Run Length (M)	Pixel (PCS)	IC Model
R	DC24V	4.8	42	8.8	125	7	8	UCS2904
G	DC24V	4.8	117	24.4	125	7	8	UCS2904
B	DC24V	4.8	36	7.5	125	7	8	UCS2904
W: 4000 ⁺⁴⁰⁰ ₋₂₀₀	DC24V	4.8	162	33.8	125	7	8	UCS2904
RGBW	DC24V	14.5	342	23.6	125	7	8	UCS2904

Pixel RGB : DMX512

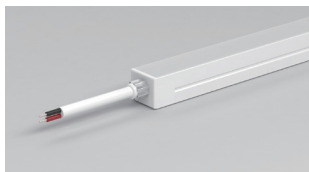
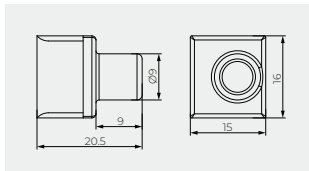
CCT(K)	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit length (mm)	Max Run Length (M)	Pixel (PCS)	IC Model
R	DC24V	4.8	51	10.6	125	7	8	UCS512CL
G	DC24V	4.8	191	39.8	125	7	8	UCS512CL
B	DC24V	4.8	32	6.7	125	7	8	UCS512CL
RGB	DC24V	12	266	22.2	125	7	8	UCS512CL

Pixel RGBW : DMX512

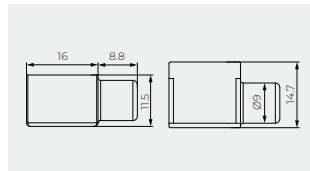
CCT(K)	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit length (mm)	Max Run Length (M)	Pixel (PCS)	IC Model
R	DC24V	4.8	44	9.2	125	7	8	UCS512CL
G	DC24V	4.8	119	24.8	125	7	8	UCS512CL
B	DC24V	4.8	34	7.1	125	7	8	UCS512CL
W: 4000 ⁺⁴⁰⁰ ₋₂₀₀	DC24V	4.8	153	31.9	125	7	8	UCS512CL
RGBW	DC24V	15	329	21.9	125	7	8	UCS512CL

Cable Lead Option (Unit: mm)

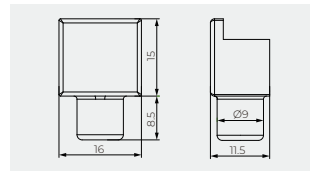
Integral End Cap : Hot pressing (IP67)



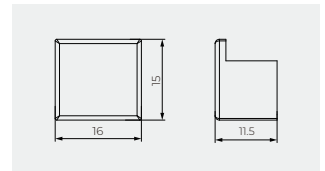
Front Cable Entry



Side Cable Entry

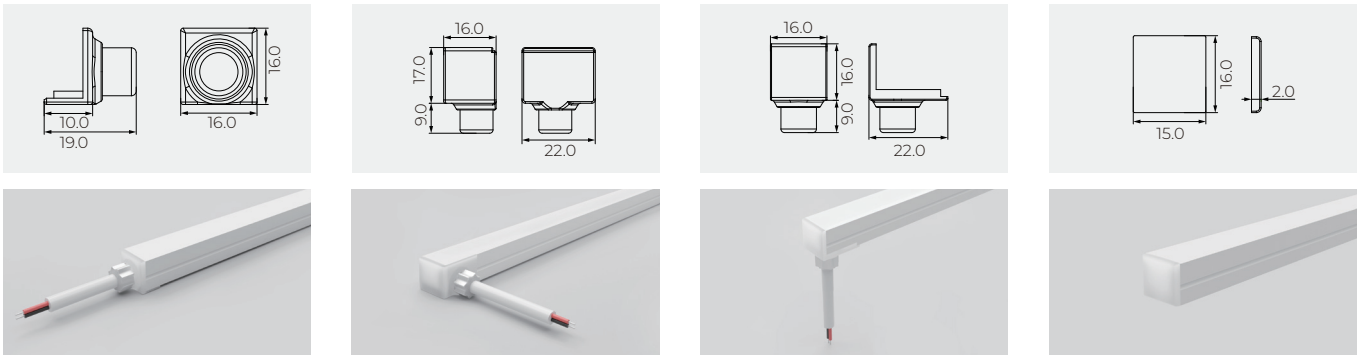


Bottom Cable Entry



Closed End cap

Integral End Cap : Hydraulic pressing (IP67)



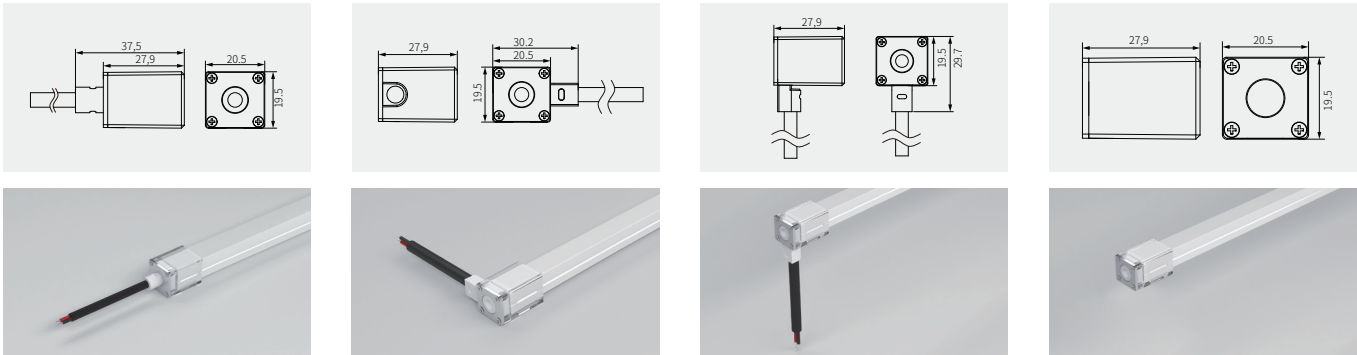
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Solder Free End Cap (IP67)



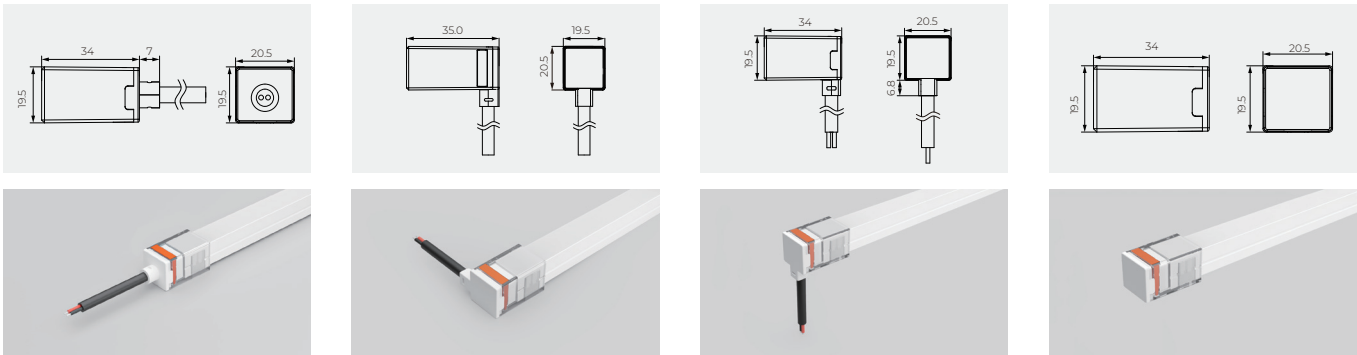
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Solder Free End Cap without screws (IP67)



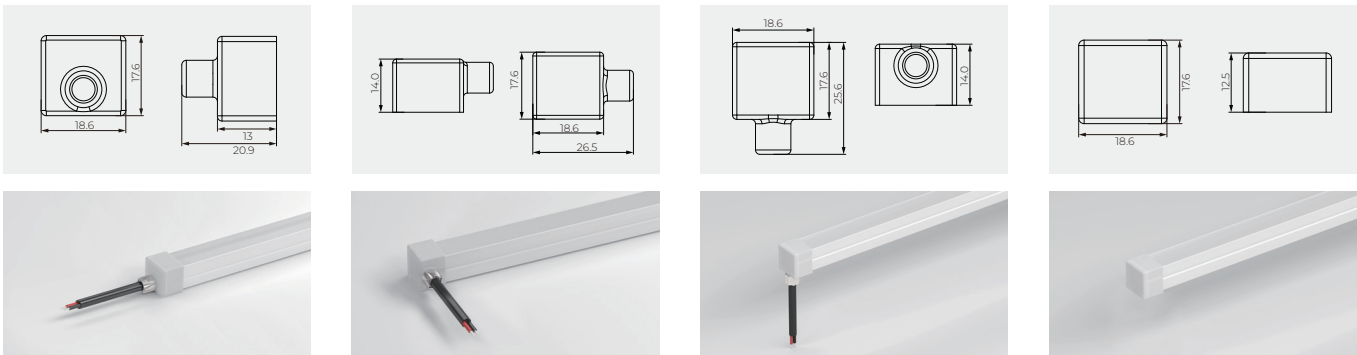
Front Cable Entry

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
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	●●●●	SPI: Red V+, Green DI/DO, 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	●●●●●	Breakpoint Transmission: RedV+, GreenBI/BO, BlueDI/DO, BlackV-
		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	●●●●○●	DMX512: RedV+, GreenPI/PO, BlueAI/AO, WhiteBI/BO, BlackV-
Silicone Cable		OD: 5.5mm / Inner core: 22AWG M12Male / Female connecto	●○●●●●	Black V+, White W, Blue B, Green G, Red R
		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
Waterproof Connector with Silicone Cable		OD: 6.4mm / Inner core: Red/Black--20AWG Green/Blue/White--22AWG	●○●●●●	Black V+, White W, Blue B, Green G, Red R
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connecto	●●	Red V+, Black V-
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connecto	●●●●	SPI: RedV+, GreenDI/DO, BlackV-
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connecto	●○●●	Black V+, White W, Yellow WW
		OD: 6.0mm / Inner core: 20AWG M12Male / Female connecto	●●●●●	Breakpoint Transmission: RedV+, GreenBI/BO, BlueDI/DO, BlackV-
		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	●●●●○●	DMX512: RedV+, GreenPI/PO, BlueAI/AO, WhiteBI/BO, BlackV-
		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

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;

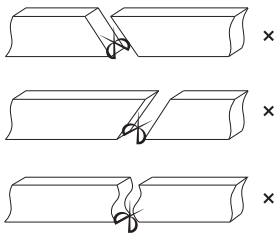
Cutting Mark



Remark:
the black marker is the cutting position



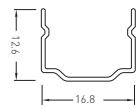
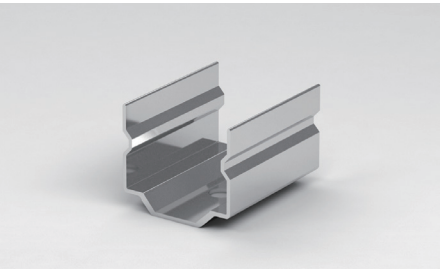
Use professional scissors to cut vertically
at the cutting mark



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

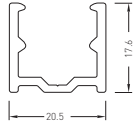
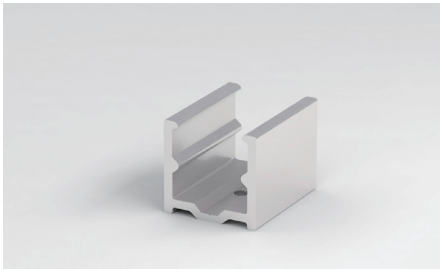
Accessories (Unit: mm)

Mounting Clips



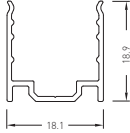
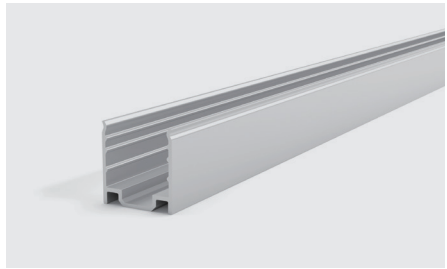
Dimension:
20x12.6x16.8
Accessories:
Screw M3x16 (SUS304)

Aluminium Mounting clips



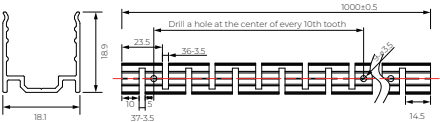
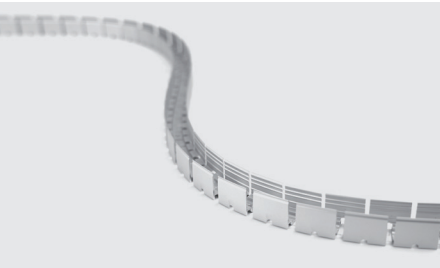
Dimension:
20x20.5x17.6
Accessories:
Screw M3x16 (SUS304)

Aluminium Profile



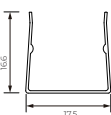
Dimension:
1000(±5)x18.1x18.9
Accessories:
Screw M3x16 (SUS304)

Curved profile



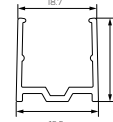
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Accessories:
Screw M3x16 (SUS304)

Curved profile



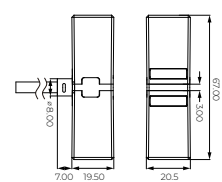
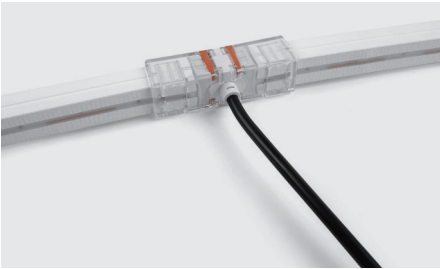
Dimension:
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Accessories:
Screw M3x16 (SUS304)

PC Profile



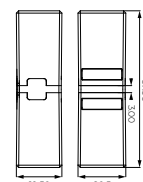
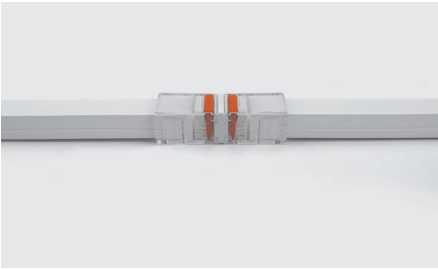
Dimension:
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Accessories:
Screw M3x16 (SUS304)

IP67 Connector (Cable Entry)



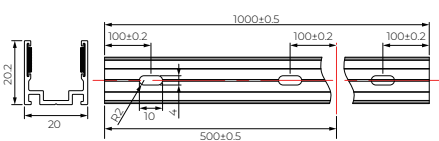
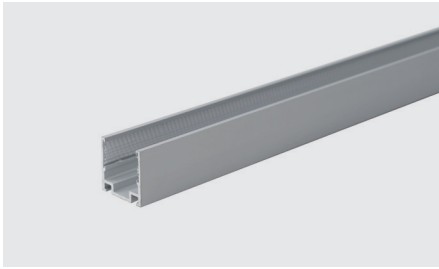
To connect 2pcs of neon after you cut it

IP67 Connector (No Cable Entry)



To connect 2pcs of neon after you cut it

Internal Gear Profile



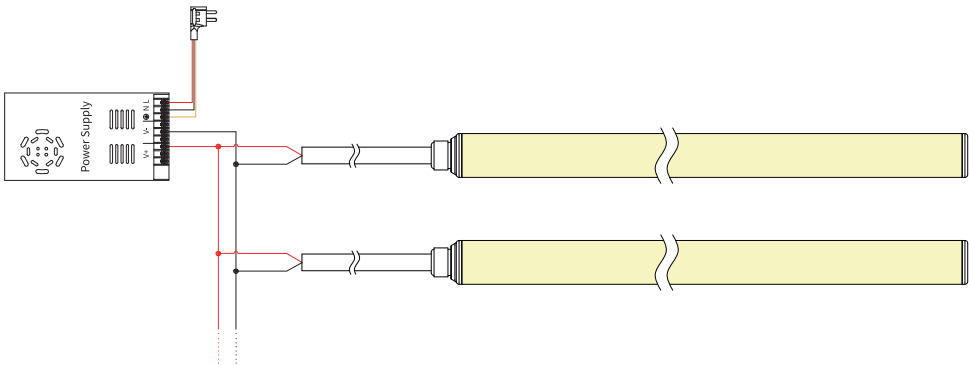
Dimension:
1000x20x20.2
Accessories:
Screw M3x16 (SUS304)

Suspension Installation

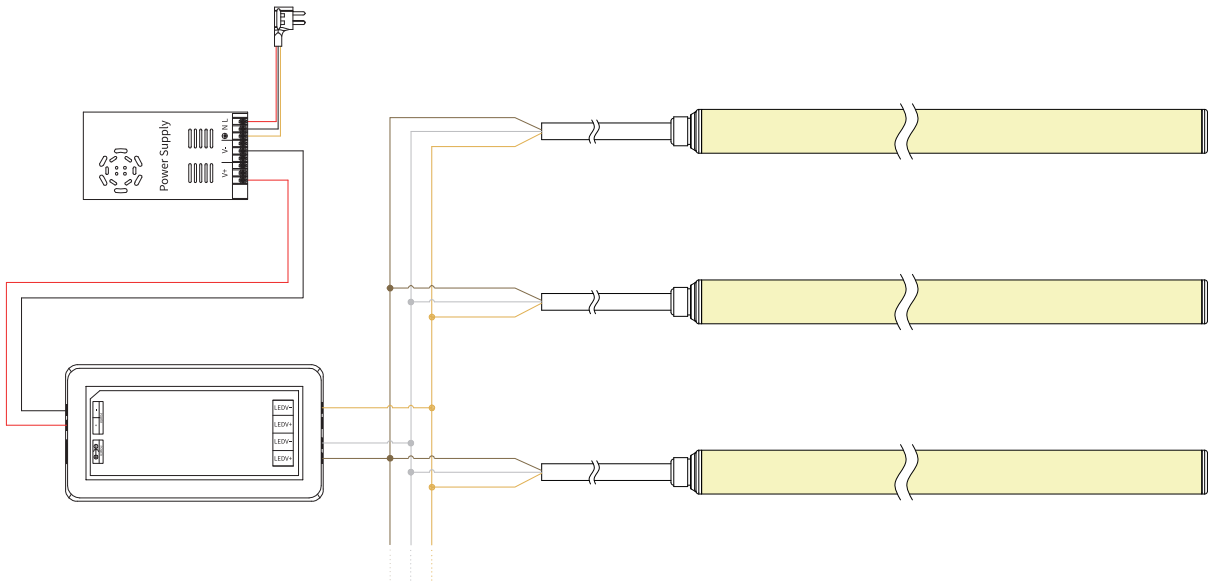


• Use with the profile

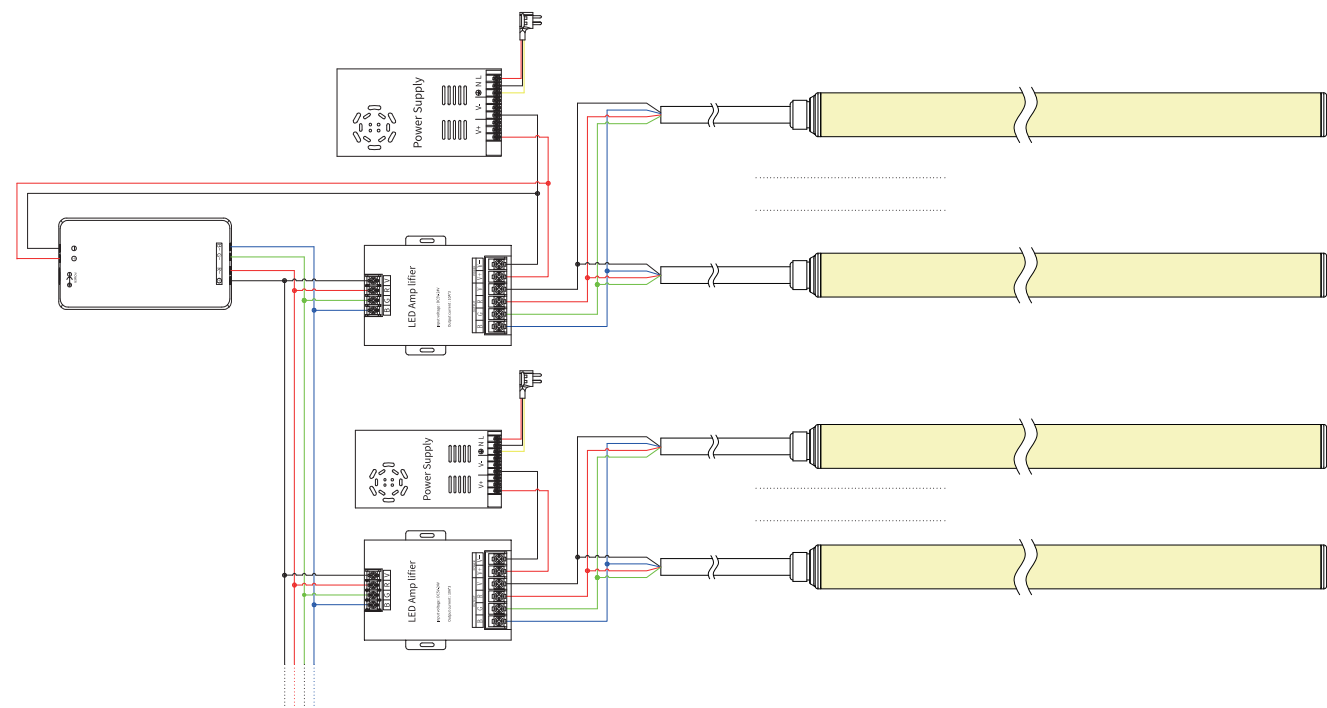
Single Color Connection Diagram



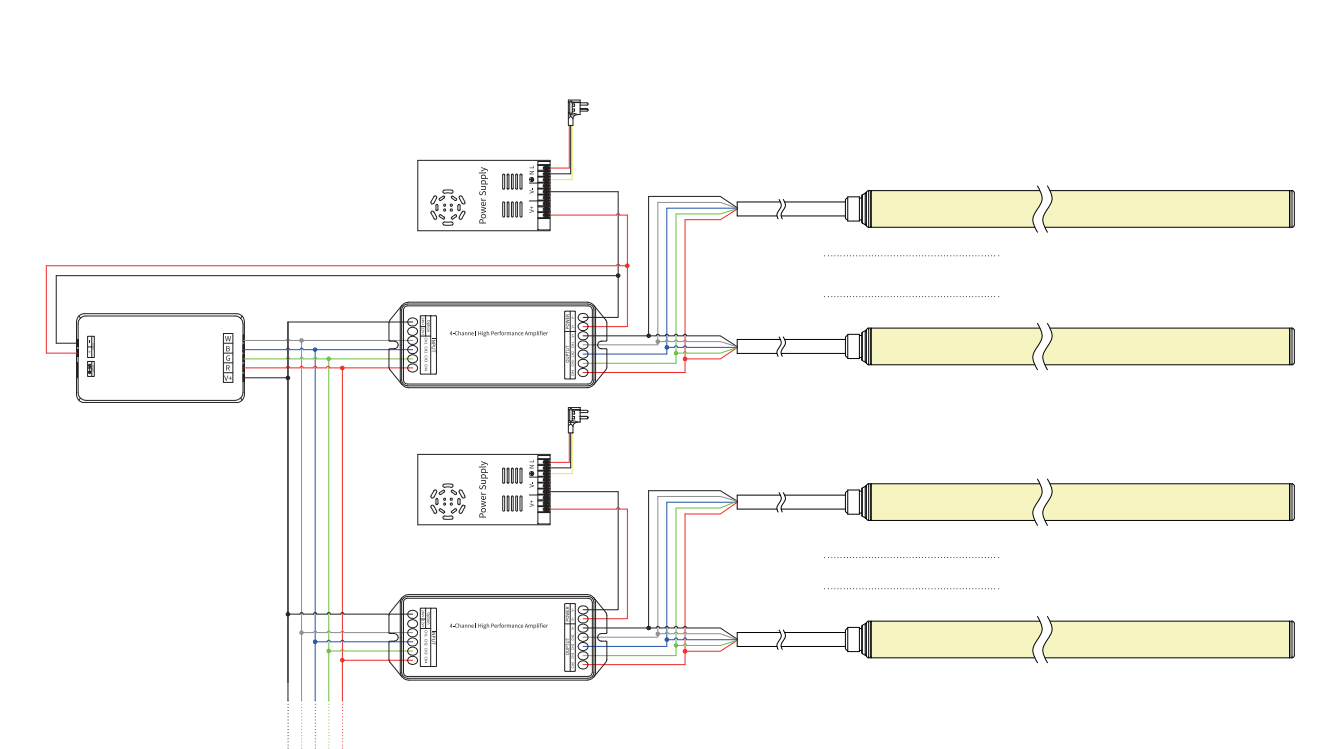
Tunable white Connection Diagram



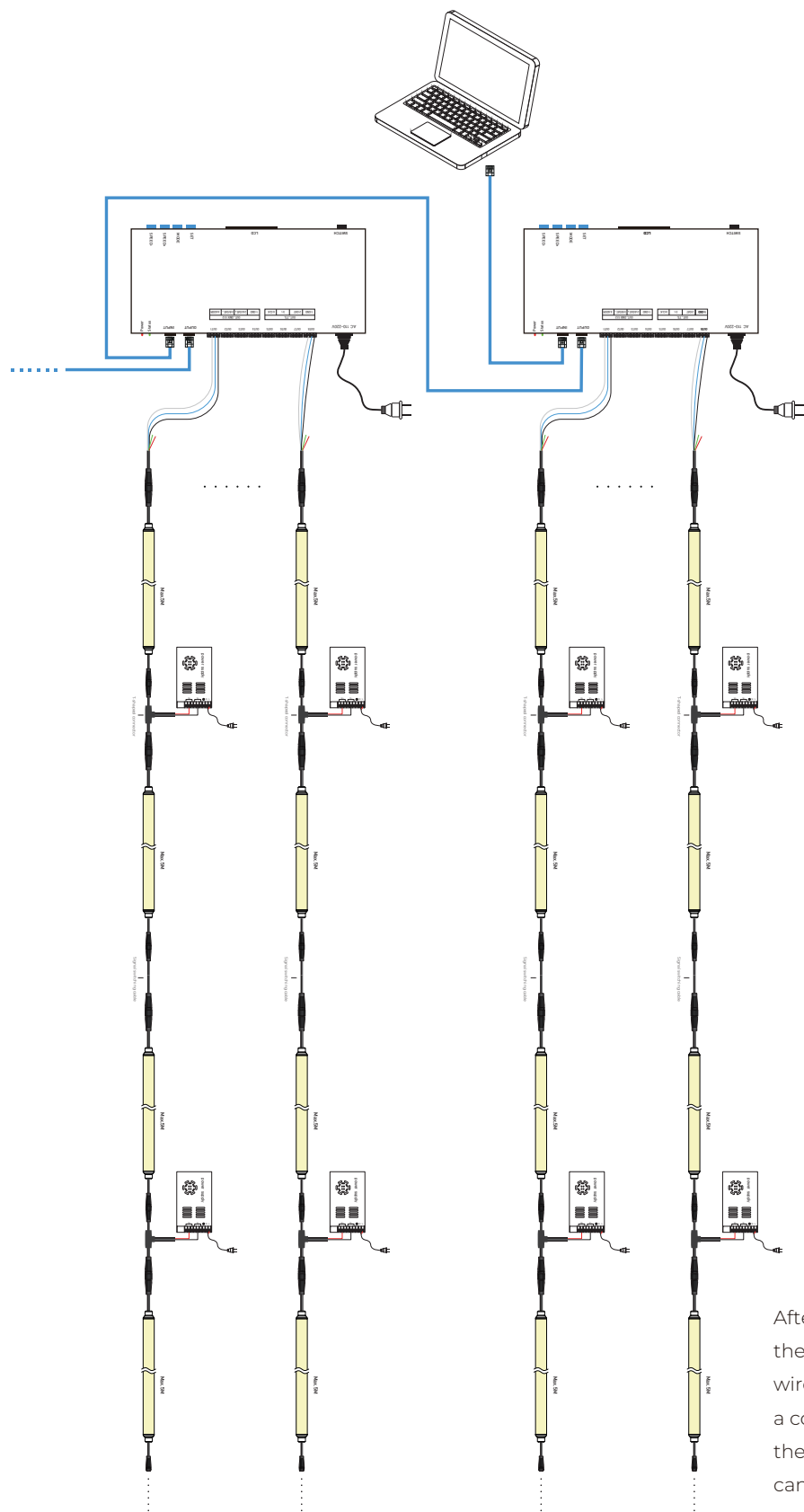
RGB Connection Diagram



RGBW Connection Diagram

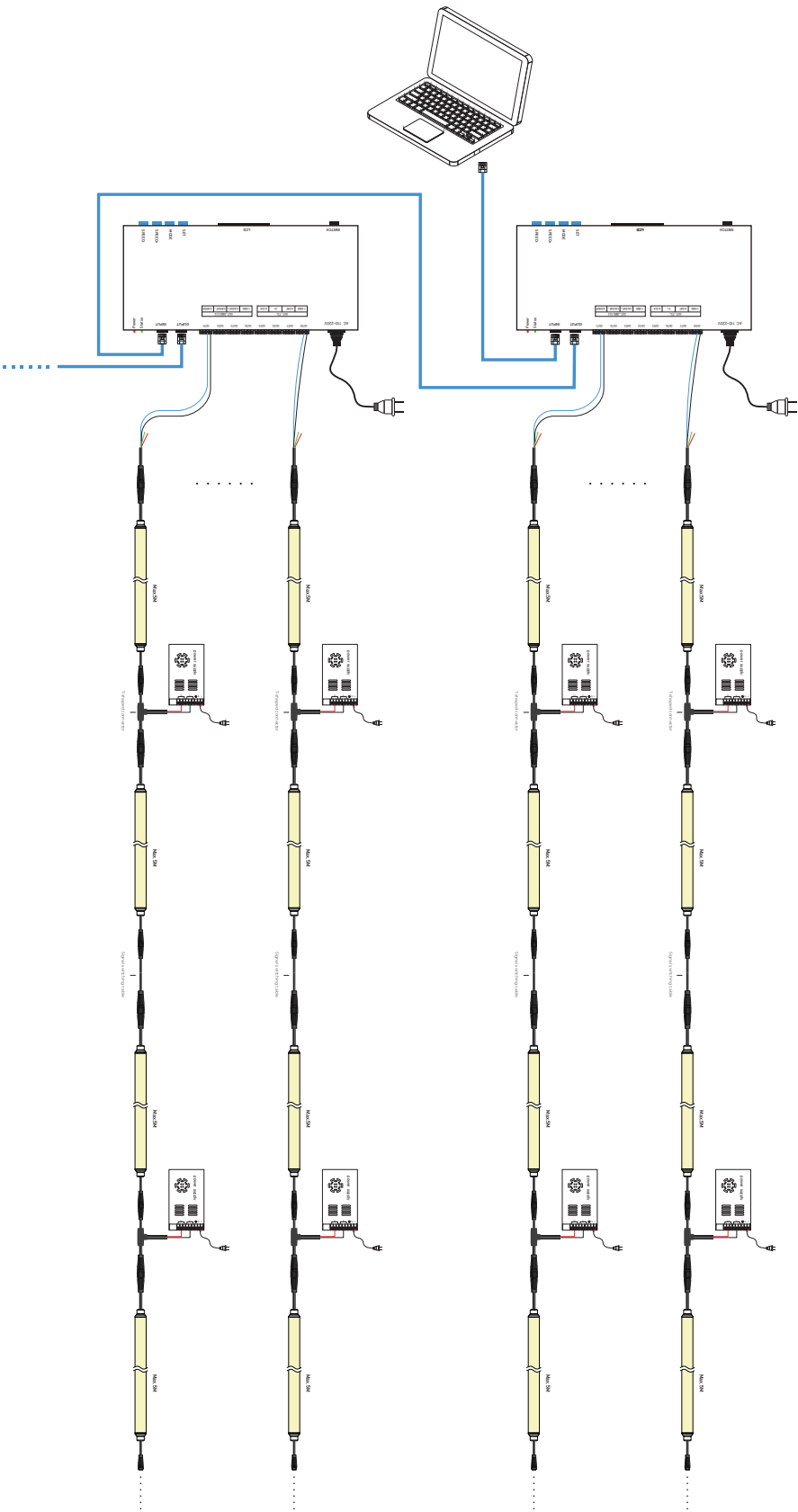


Schematic Diagram of Control System Connection - DMX512 Signal Type

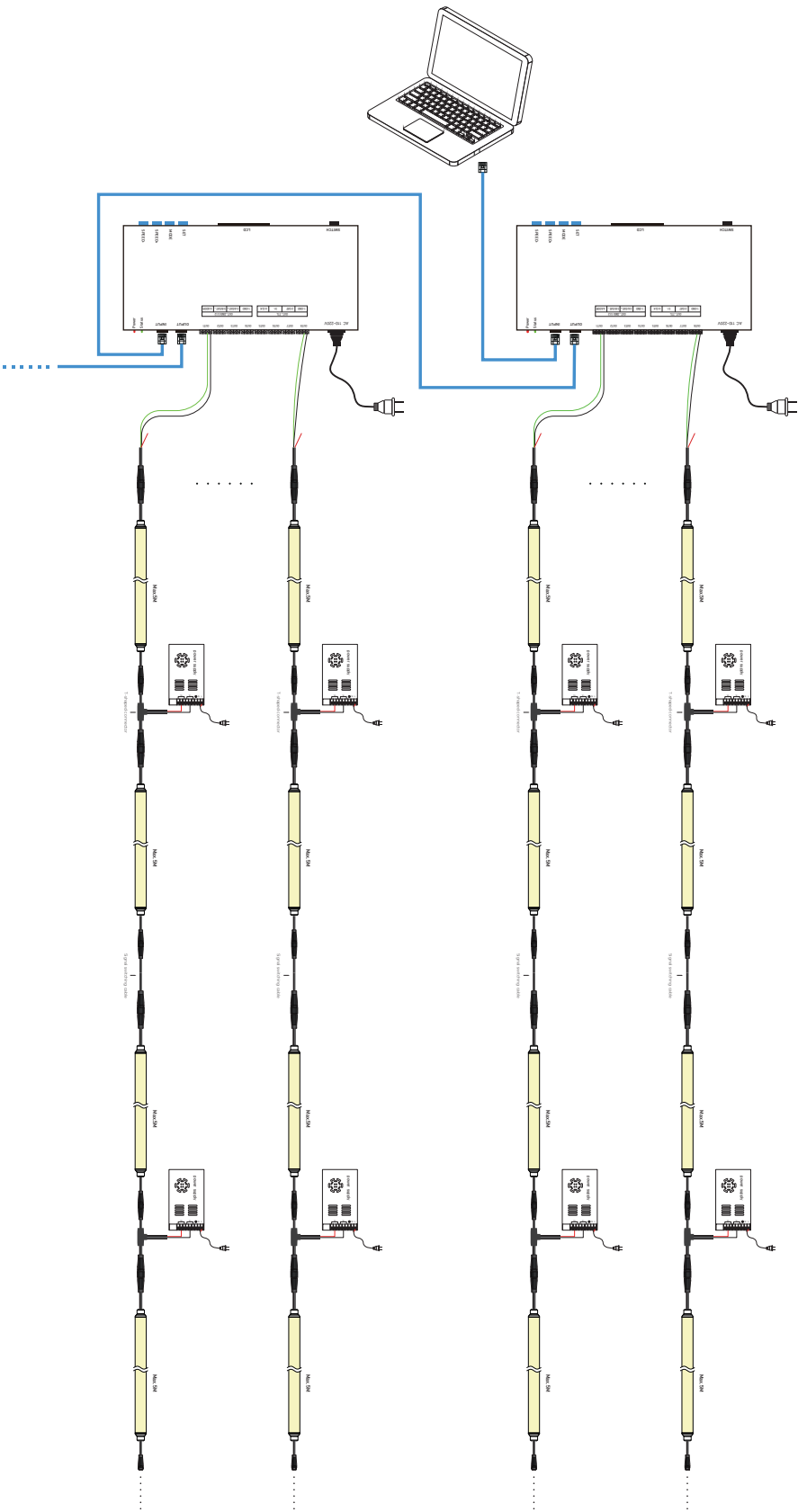


After the led strip is connected to the signal wire and power supply wire correctly, It is necessary to use a controller or corder to address the led strip ,then the controller can run the control effect program.

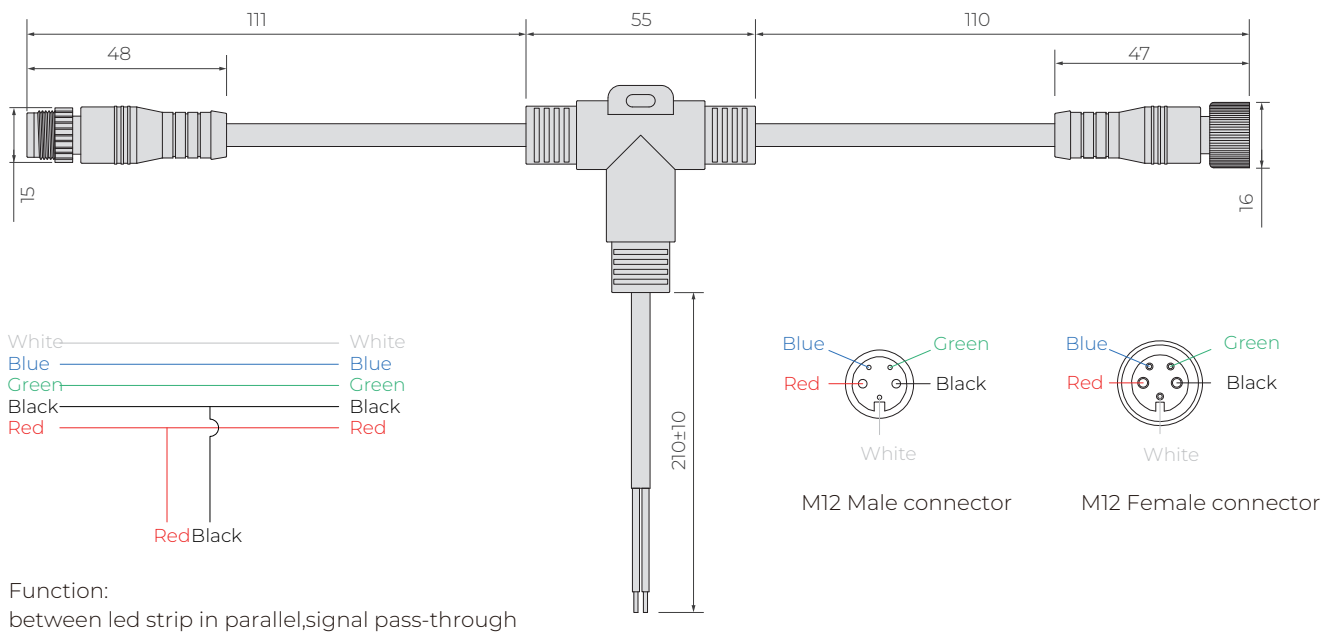
Schematic Diagram of Control System Connection - Signal Type for Resume from Breakpoint



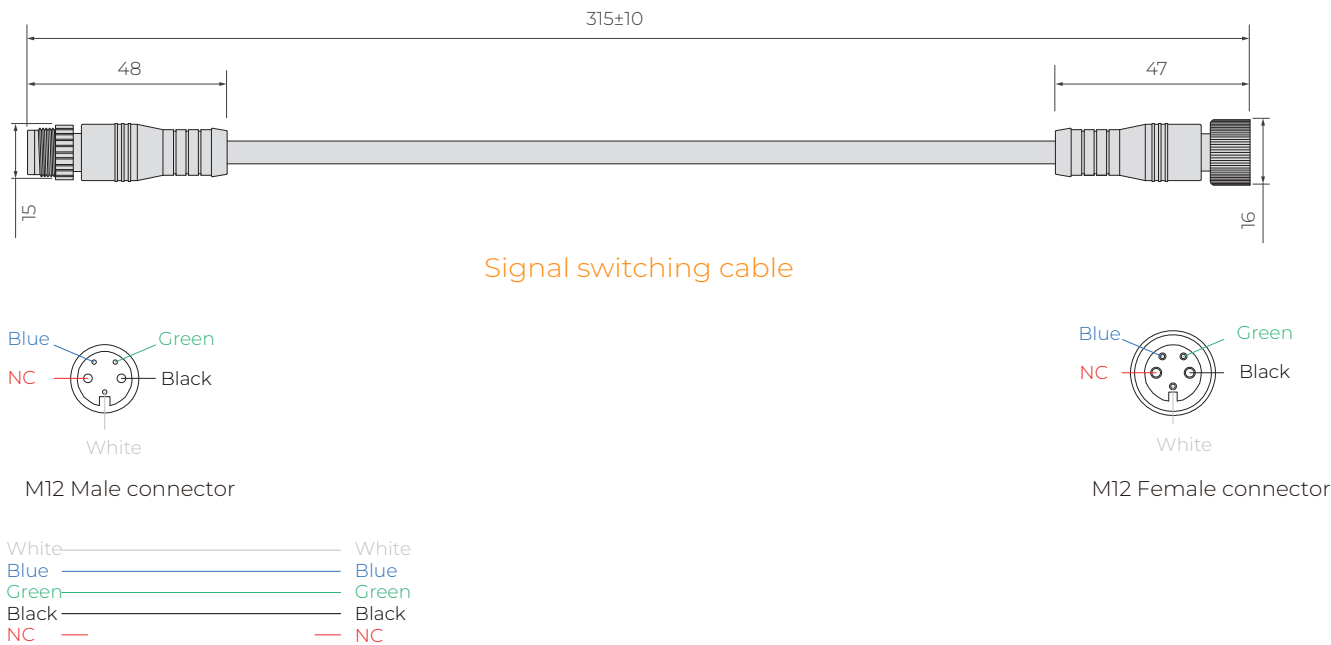
Schematic Diagram of Control System Connection - SPI Signal Type



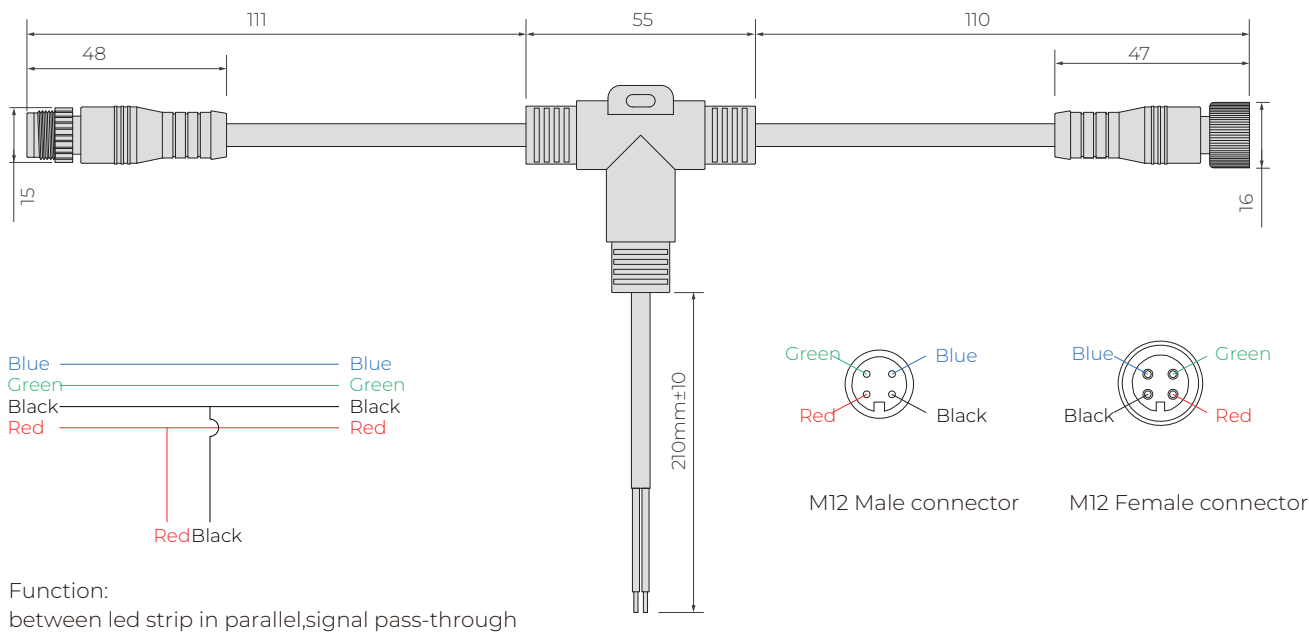
DMX512 signal type strip light with accessory cable (Unit: mm)



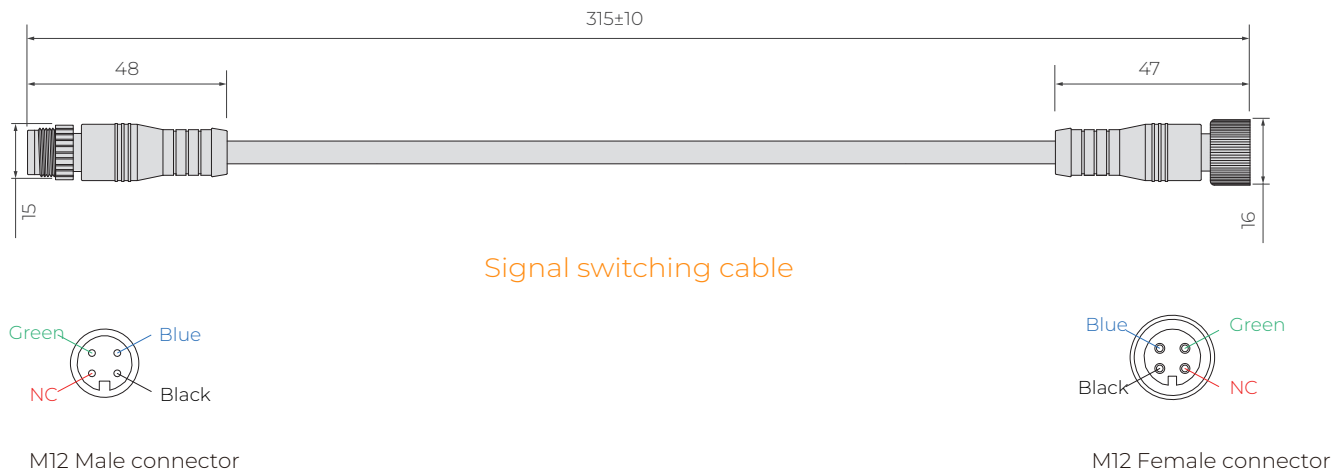
T-type 3 channel connector



Breakpoint Transmission signal type strip light with accessory cable (Unit: mm)



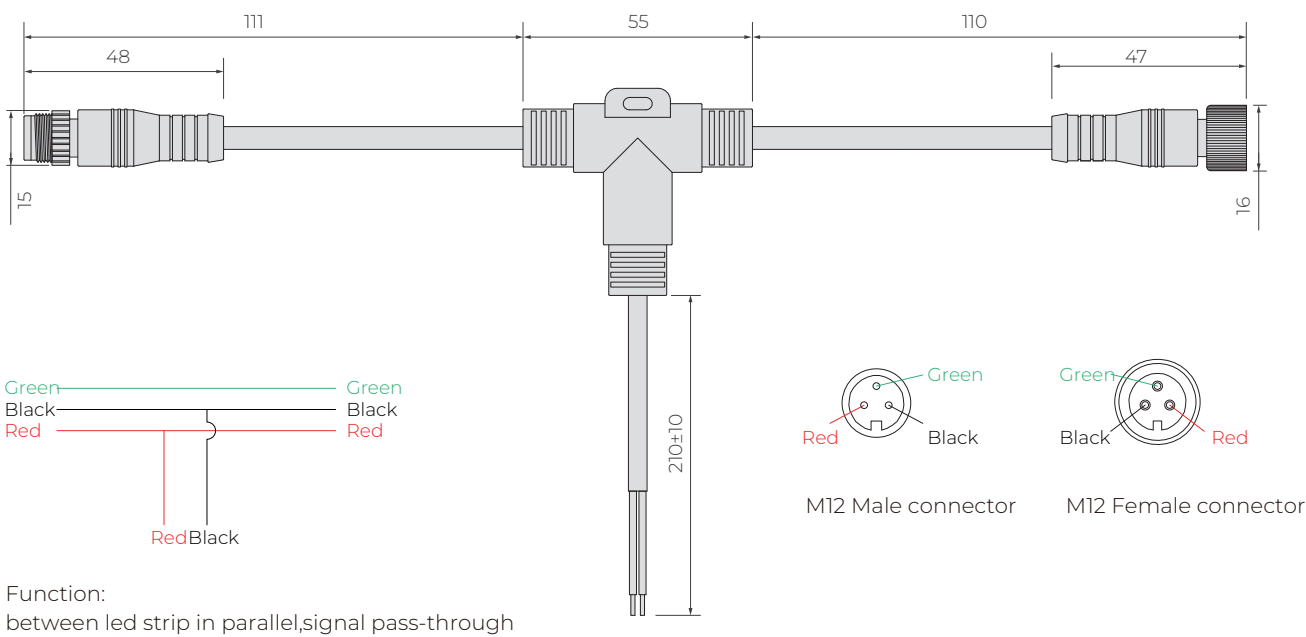
T-type 3 channel connector



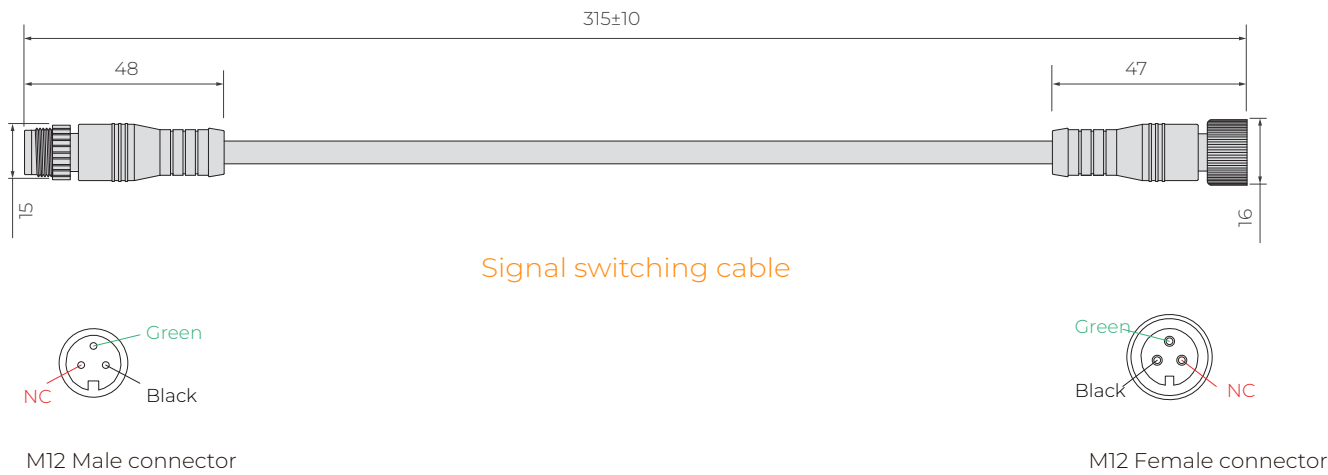
Black — Black
Blue — Blue
Green — Green
NC — NC

Function:
Keep the signal cable connected in series;
The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).

SPI signal type strip light with accessory cable (Unit: mm)



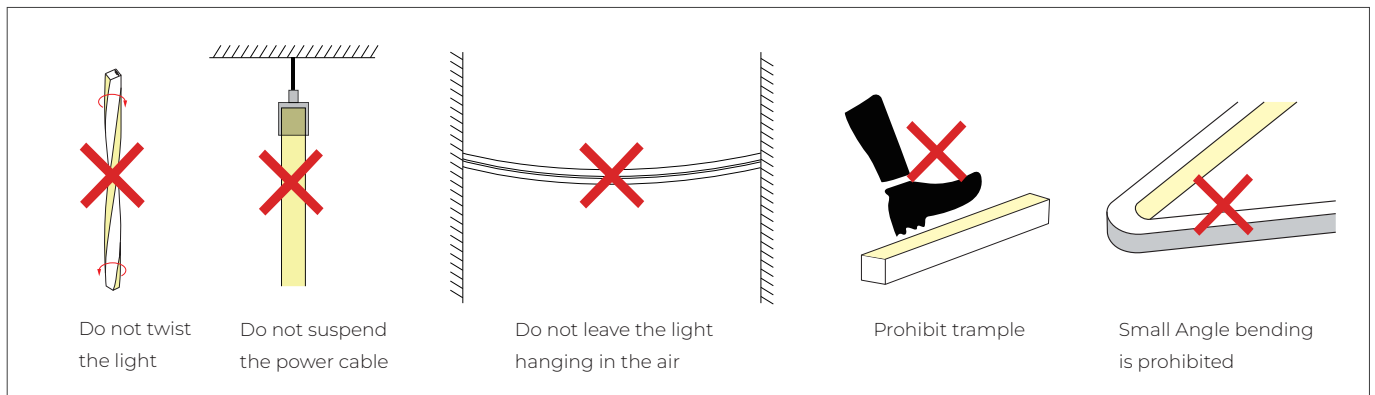
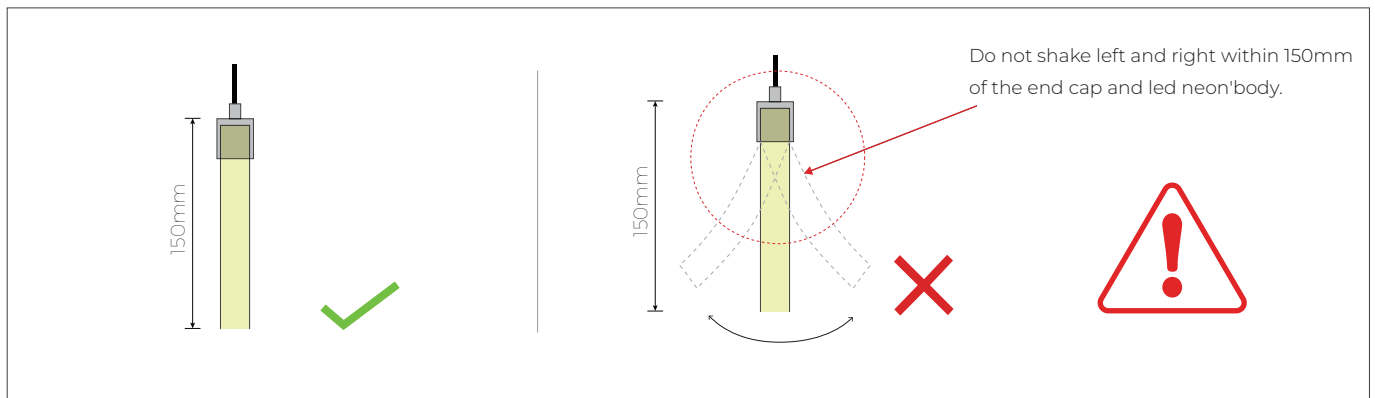
T-type 3 channel connector



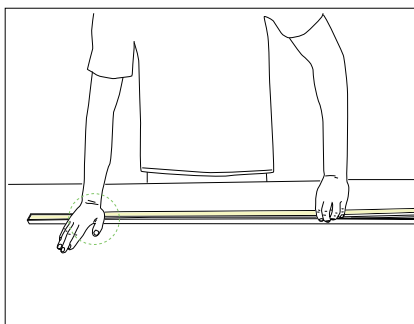
Black — Black
Green — Green
NC — NC

Function:
Keep the signal cable connected in series;
The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).

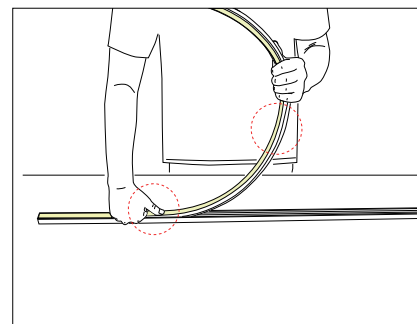
Installation Precautions



Put it in the profile



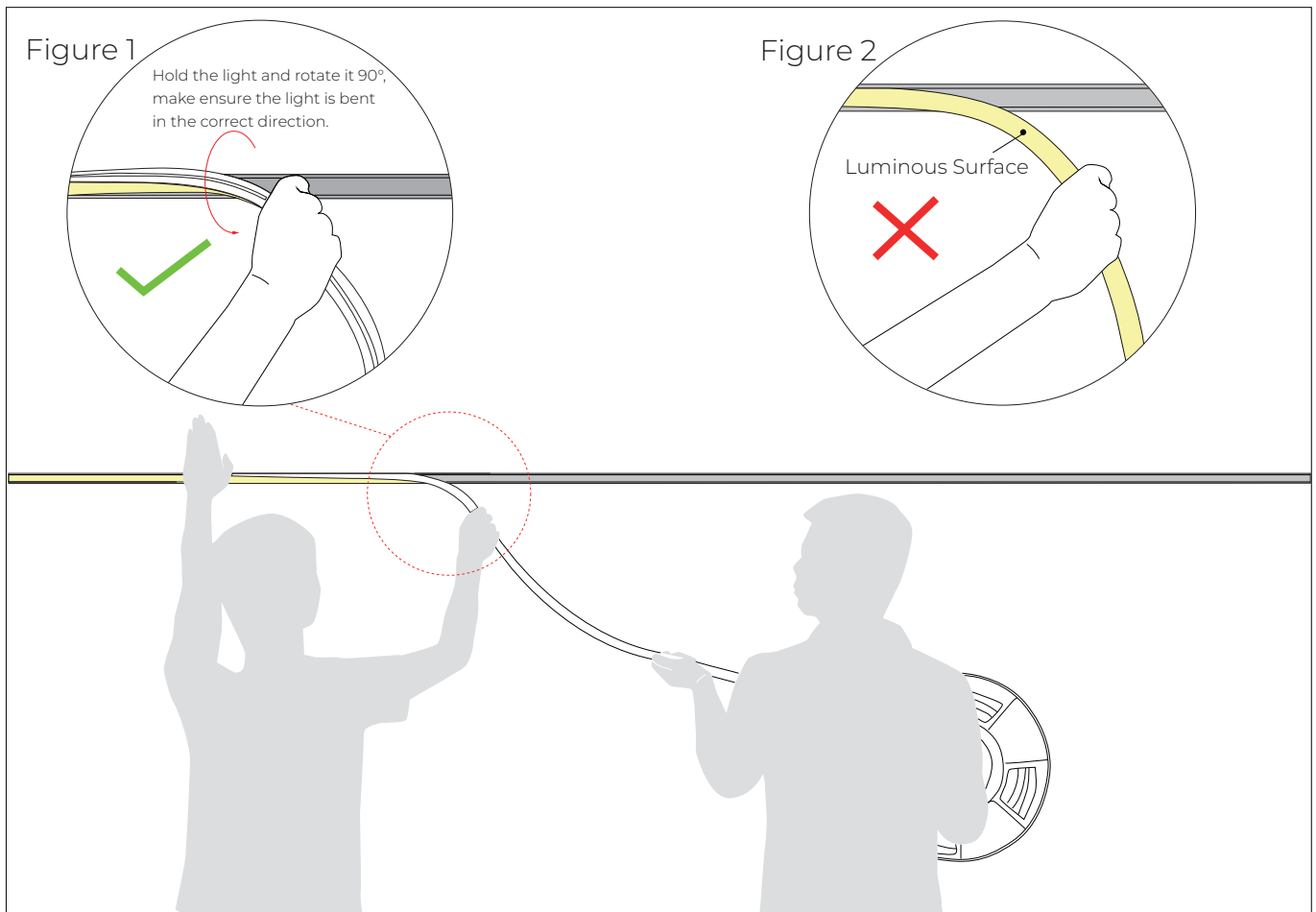
- Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip above the groove with your right hand.
- Try to keep the led strip in a flat state during the installation process.



- 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:

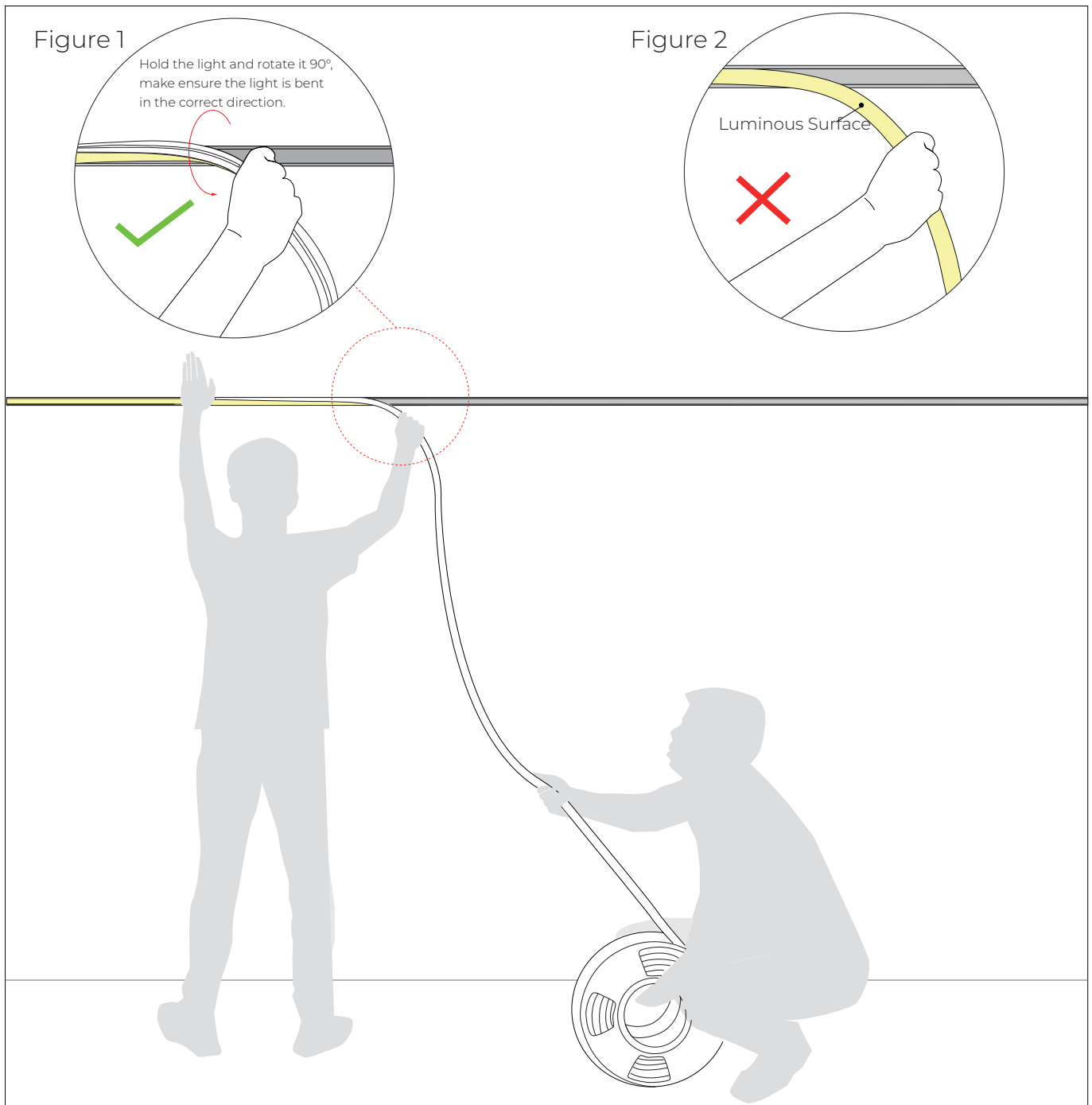
- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand, hold it and rotate it 90 ° to droop it in the direction of your hand. See Figure 1.
- Do not bend the luminous surface to the side. See Figure 2.

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.

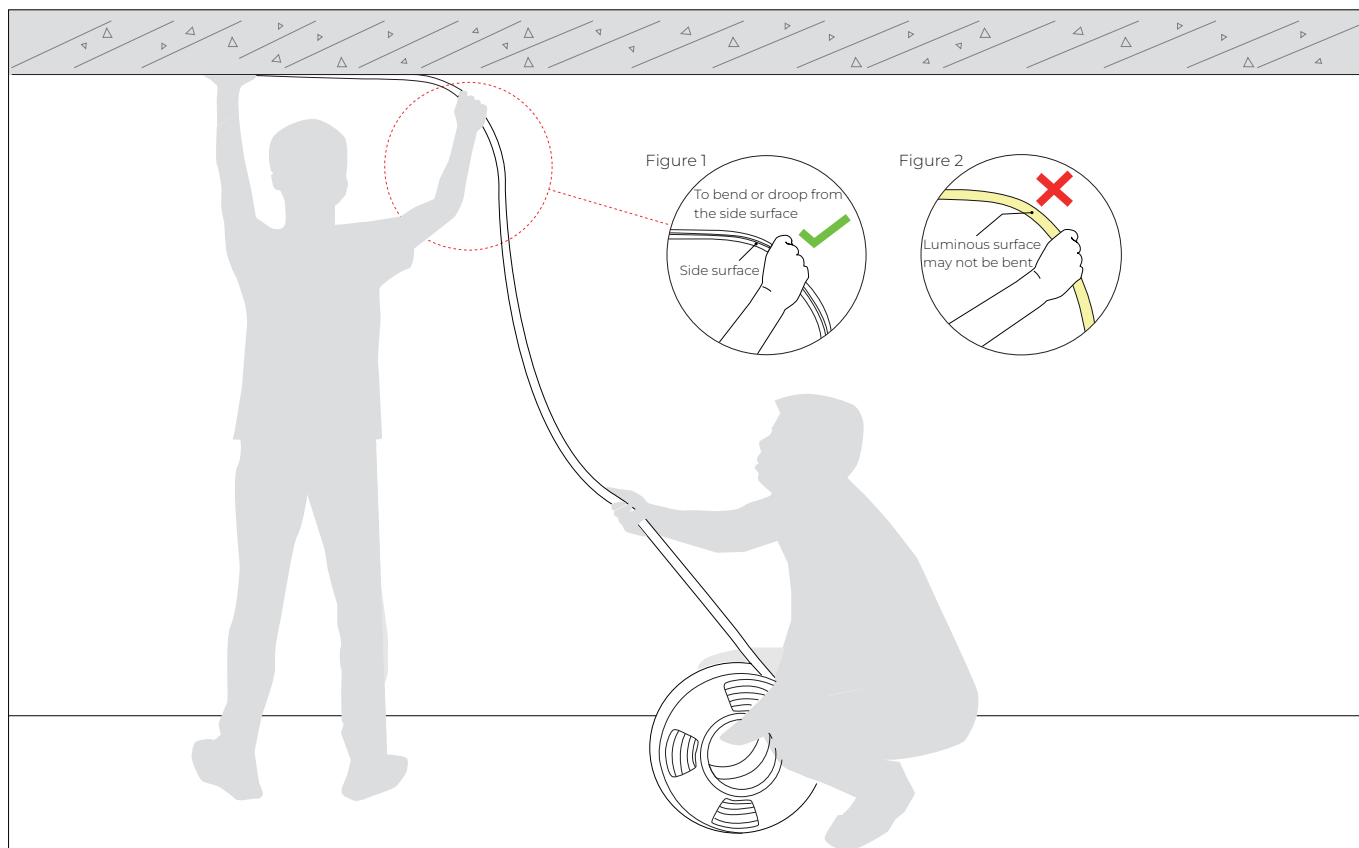
-Do not bend the luminous surface to the side. See Figure 2.

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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