

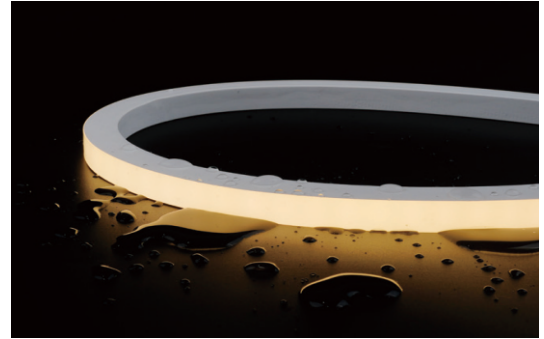
SPECIFICATION FULL SPECTRUM NEON

NS-T1617F 24V IP67

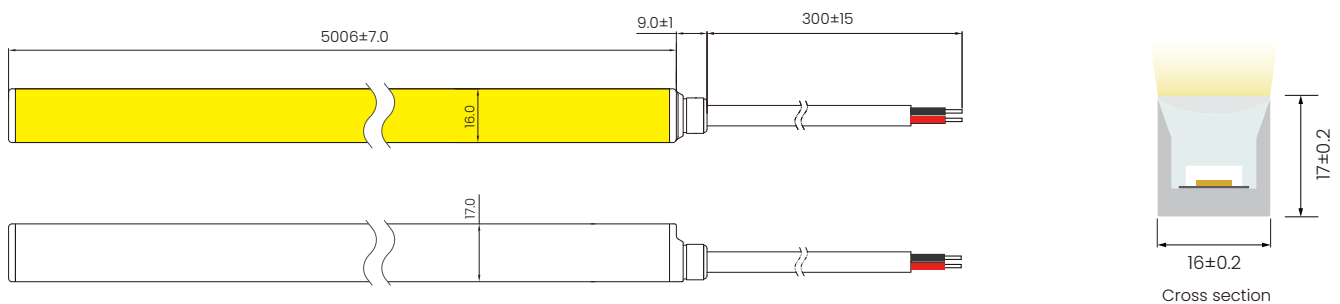


Features

- Artificial full-spectrum LED lights that simulate the sunlight spectrum.
- $Ra \geq 97$, high color rendering index, high color reproduction ability.
- This IP67 silicone co-extruded neon offers UV resistance, chemical stability, and abrasion resistance.
- Vertical bending with uniform light.
- 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.
- 3 years warranty, long-life LED > 30,000 hrs, 1 Bin.



Dimensions(Unit:mm)



General Parameters

Voltage	DC24V
LED Solder-Point Temperature	Max. 65°C
Storage Temperature	-25°C~ 60°C
Ambient Temperature	Min.-25°C, Max (Table below)
CRI	see parameter tables

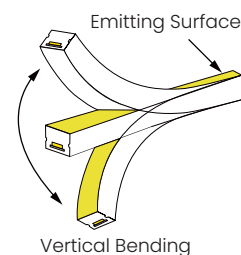
Power Ratings

Power(w/m)	15
Efficacy(lm/w)@3800K	76.7
Max Ambient Temperature	35°C

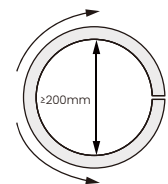
Due to the tolerance of the production and electrical components, output value and electrical power can vary up to 10%

Length Standard

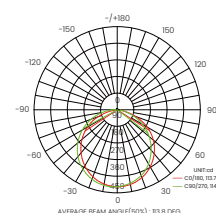
Length Range (M)	Final Length(mm)			Tolerance (mm)
	Integral end cap	Solder free end cap	Silicone end cap	
0M<Neon Strip(L)≤5M	L+6	L+32	L+5.5	±7



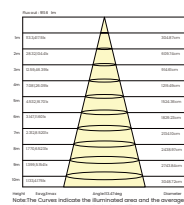
Vertical Bending



Min. Bending Diameter



Light Distribution Curve



Effective Average Illuminance

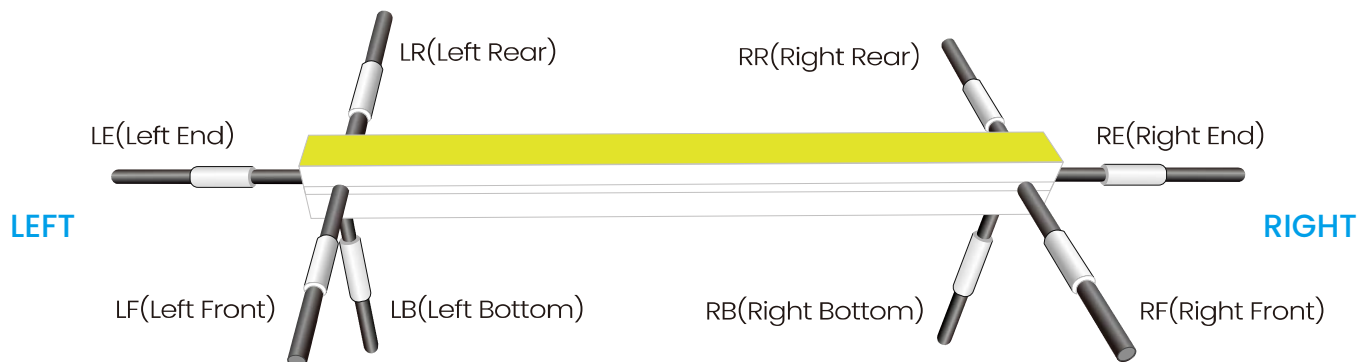
Note: The above data is based on 24V, 15W/M, single colour with 3800k colour temperature. If you need IES files for other types, please contact our sales department.

Single Color : Model NS-T1617FV24-Cx-A

CCT(K)	CRI	Voltage	Power (w/m)	Luminous Flux (lm/m)	Efficacy (lm/W)	Rf	Rg	R1-R15	Unit Length (mm)	Max. Run Length (M)	CC/CV
2600K±150	≥97	DC24V	15	994	66.3	≥95	≥98	≥90	50	5	CV
2900K±150	≥97	DC24V	15	1045	69.7	≥95	≥98	≥90	50	5	CV
3200K±200	≥97	DC24V	15	1122	74.8	≥95	≥98	≥90	50	5	CV
3800K±200	≥97	DC24V	15	1150	76.7	≥95	≥98	≥90	50	5	CV
4500K±300	≥97	DC24V	15	1173	78.2	≥95	≥98	≥90	50	5	CV
5000K ⁻²⁰⁰ ₊₅₀₀	≥97	DC24V	15	1173	78.2	≥95	≥98	≥90	50	5	CV

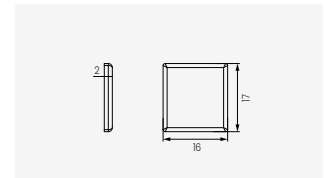
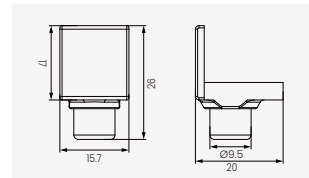
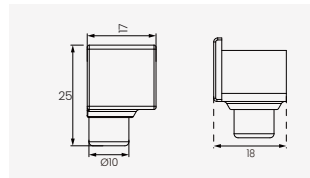
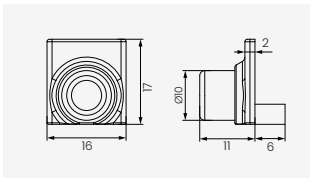
- Maximum run length refers to the maximum length powered from one end using the standard 30 cm cable.
- For the load capacity of the solder free end cap, please refer to <The Maximum Load Capacity of Power Cables>
- The specified color temperature refers to the finished product.
- The values shown are typical. Due to production and component tolerances, light output and electrical power may vary by up to ±10%.
- All products can be dimmed; The dimmer voltage must match the rated voltage of the LED strip.
- 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.

Cable Entry Directions



Cable Entry and End Cap Options (Unit: mm)

Integral End Cap (IP67)



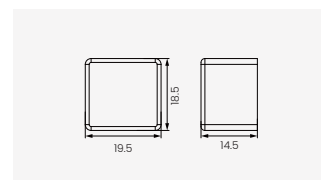
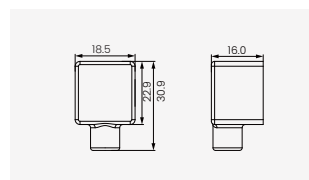
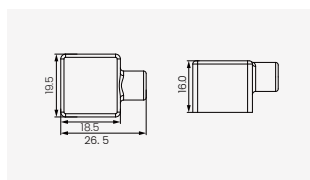
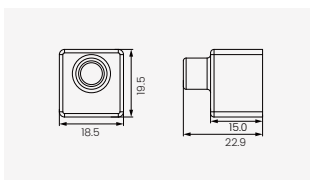
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Silicone End Cap (IP67)



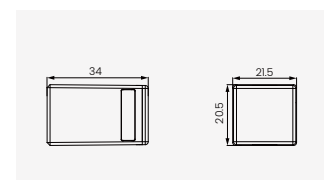
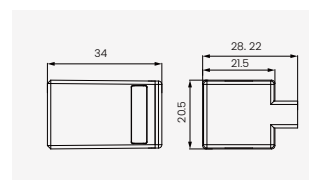
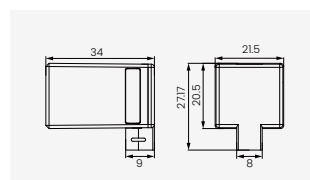
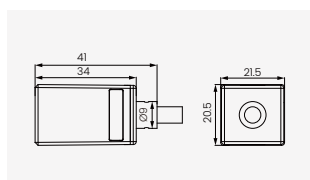
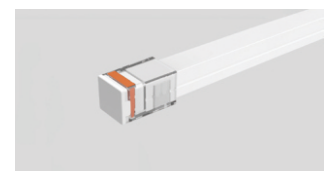
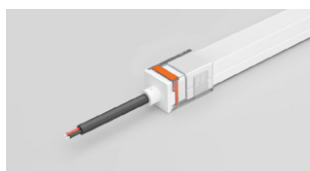
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Solder Free End Cap without screws (IP67)



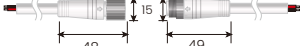
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Cables and Connectors

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
Applicable to Solder Free End Cap PVC Cable		OD: 5.0 mm / Inner core: 20AWG	● ●	Red V+/Black V-
Waterproof Connector with PVC Cable		OD: 5.0 mm / Inner core: 20AWG M12 Male/Female Connector	● ●	Red V+/Black V-
Applicable to Integral End Cap Silicone Cable		OD: 6.0 mm / Inner core: 20AWG	● ●	Red V+/Black V-
Waterproof Connector with Silicone Cable		OD: 6.0 mm / Inner core: 20AWG M12 Male/Female Connector	● ●	Red V+/Black V-

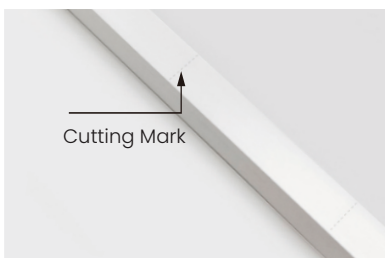
Cable Maximum Load Capacity

a. For assembled end caps with single-ended power supply, the maximum load is shown below.

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 a single-color LED neon strip is powered from one end and the power exceeds the values listed, use an integral or silicone end cap.

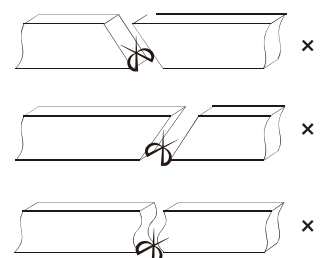
Cutting Mark



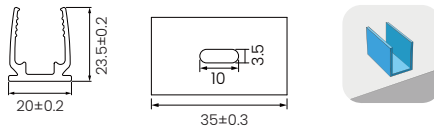
Remark:
The bottom marker is the cutting position



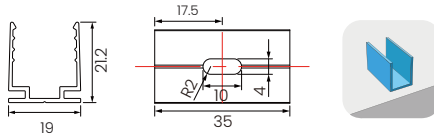
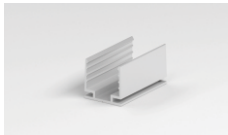
Use a professional cutting tool to cut vertically
at the cutting mark.



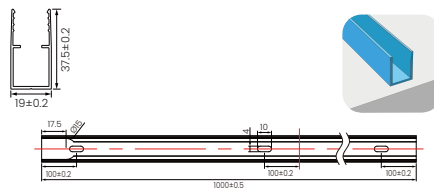
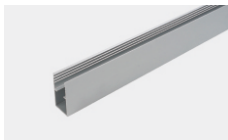
Please don't be feel free to cut and cut into an
oblique angle or cambered section.



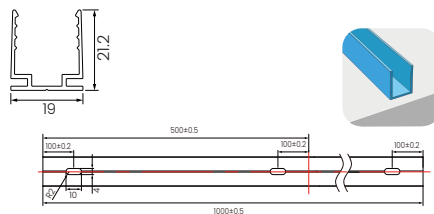
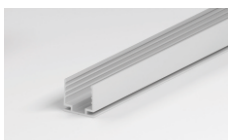
Aluminum Mounting Clips



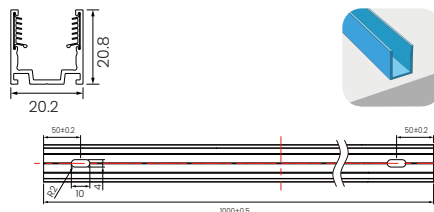
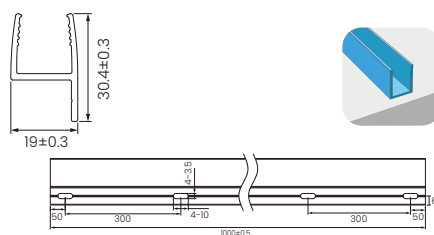
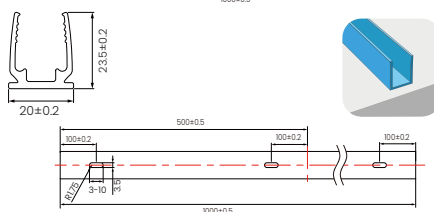
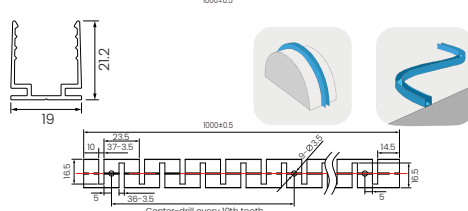
Aluminum Profile



Aluminum Profile



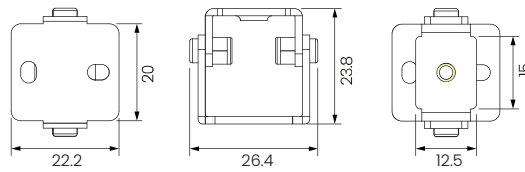
Internal Gear Profile

PC ProfilePC ProfileCurved Profile

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Installation Accessories

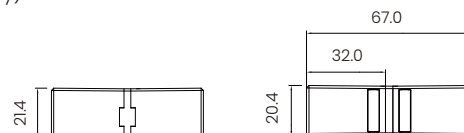
Adjustable Angle Clip
(use with aluminum clips or profile)



Dimension: 22.2x26.4x23.8mm

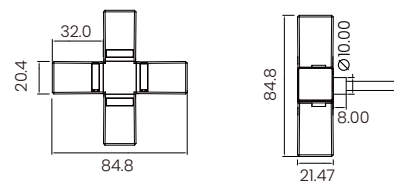
Accessories: Screw M3x25mm(SUS304)/M3.5x8mm(SUS304)

IP67 Connector (No Cable Entry)



To connect 2pcs of neon after you cut it

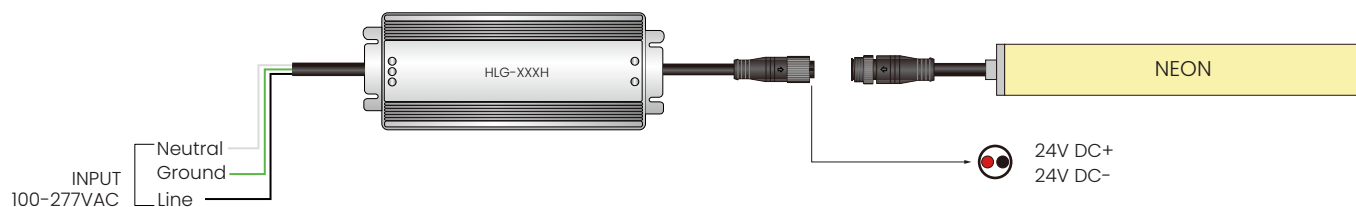
IP67 Cross Connector (Cable Entry)



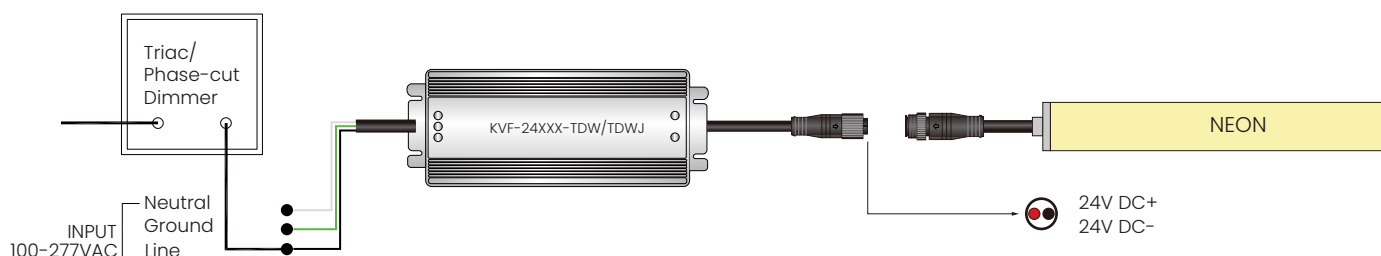
To connect 4pcs of neon after you cut it

Single Color Connection Diagram

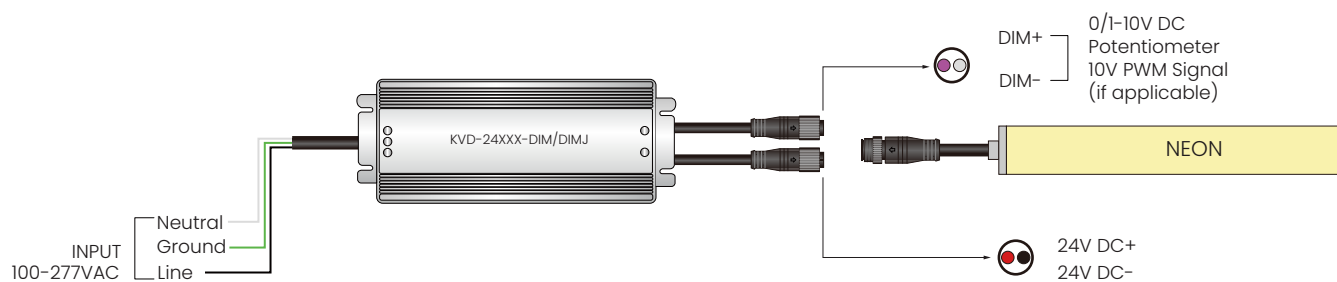
Non-dimmable



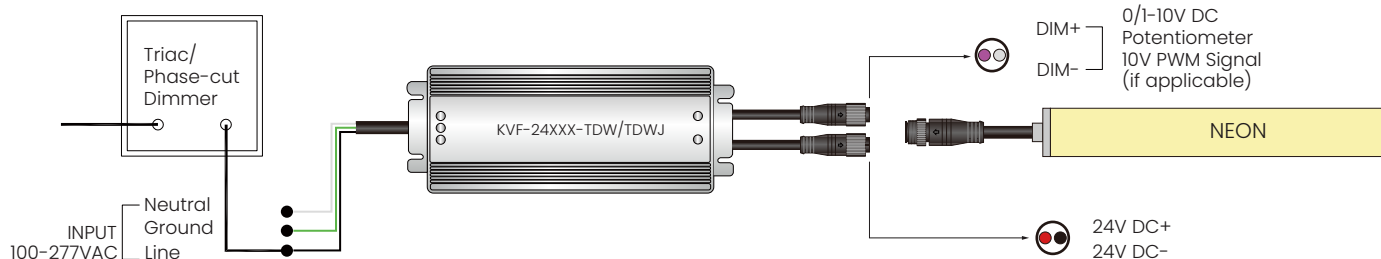
Phase-Cut / TRIAC Dimming



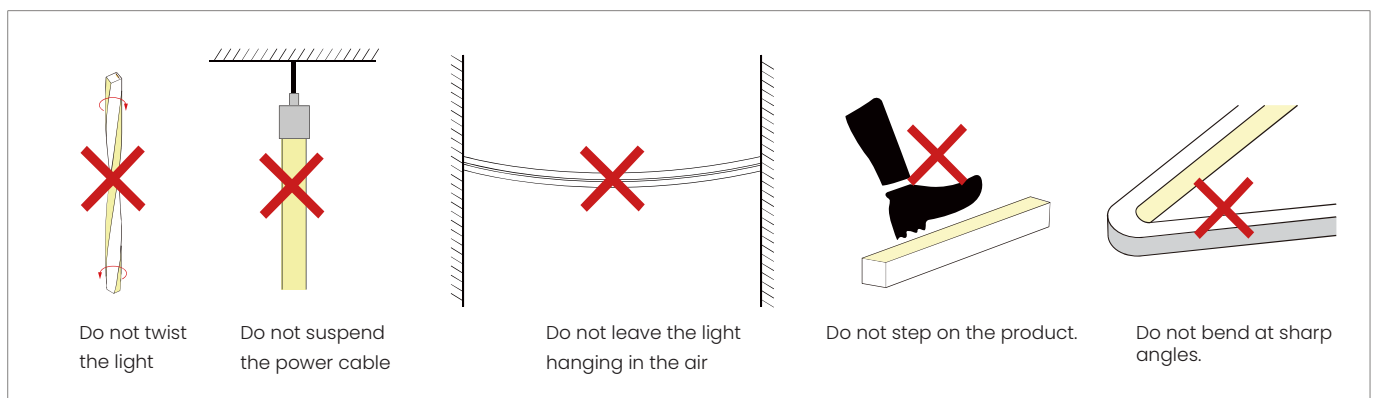
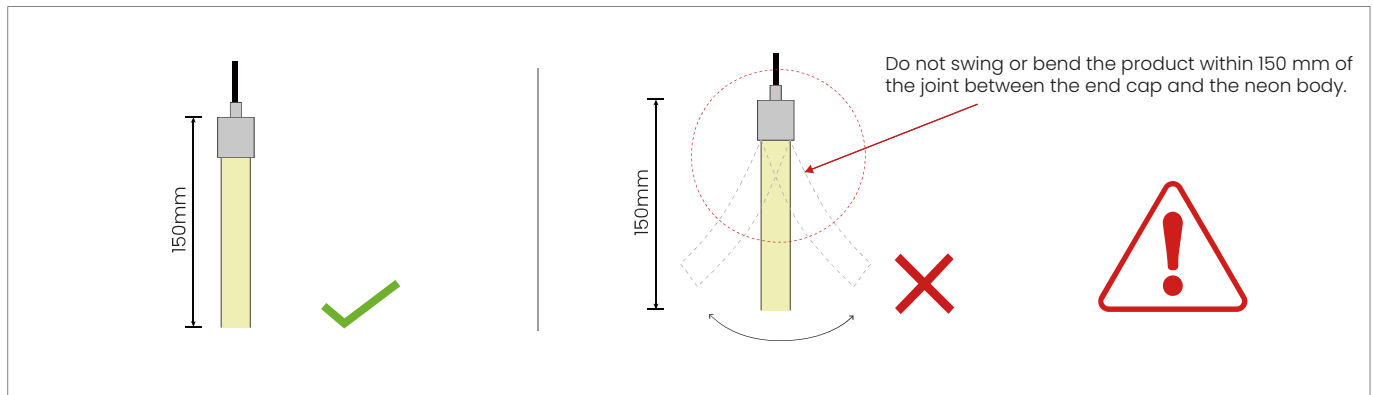
4-in-1 Dimming(0-10V/1-10V/Potentiometer/10V PWM)



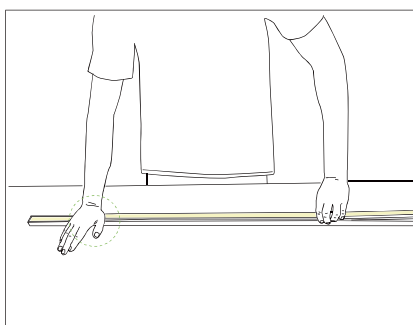
5-in-1 Dimming (Triac/0-10V/1-10V/Potentiometer/10V PWM)



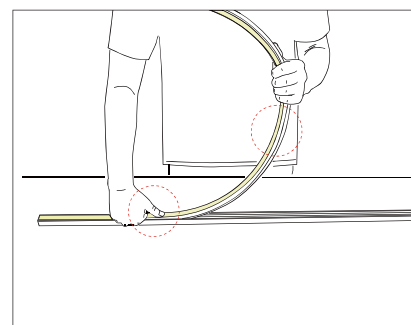
Installation Precautions



Insert into the Profile

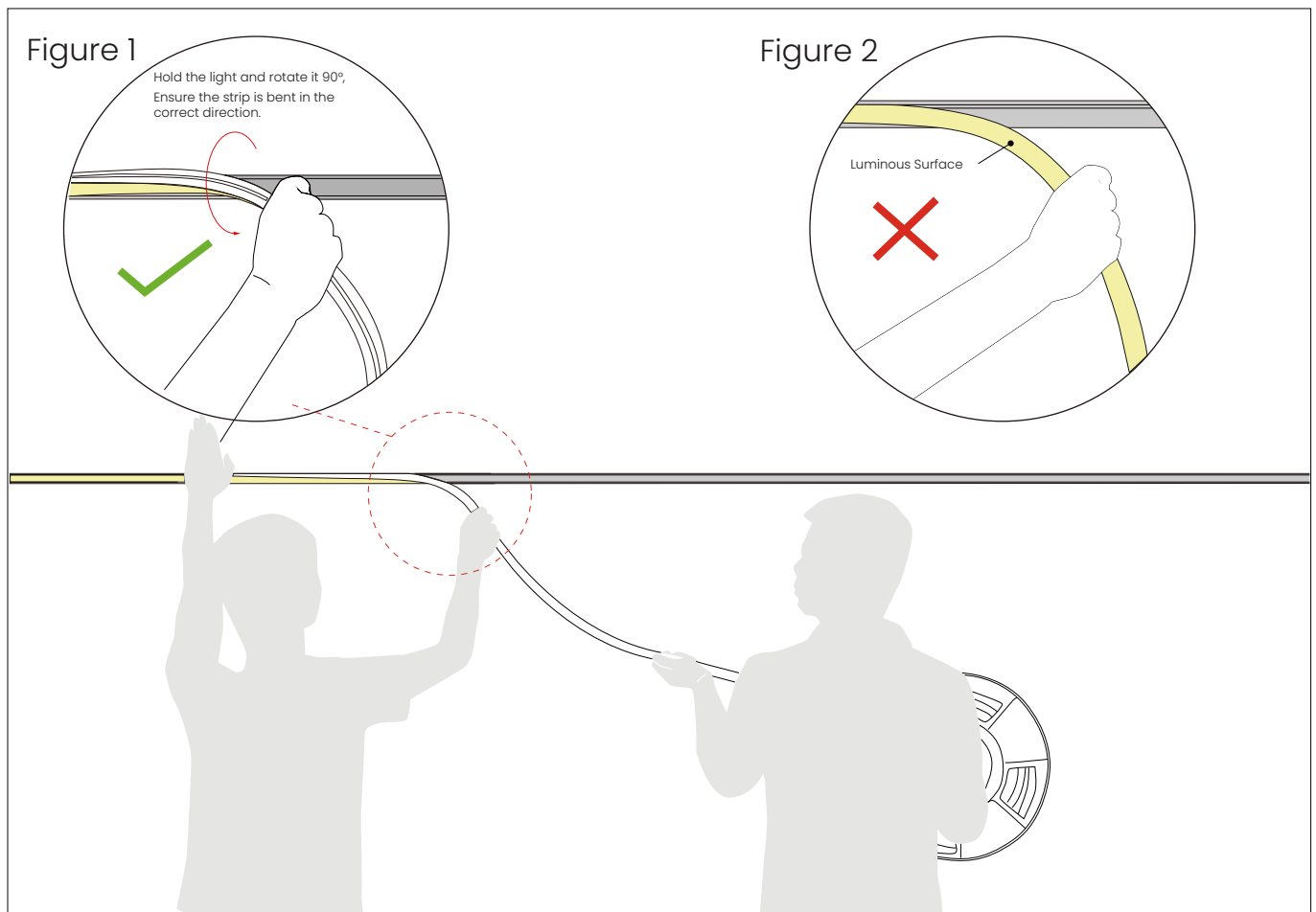


- Use your palm to slowly press the LED strip into the channel, then gently straighten it along the channel.
- Try to keep the led strip in a flat state during the installation process.



- Do not press the LED strip with one finger; this may damage internal components.
- 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 people must work together to install it.)

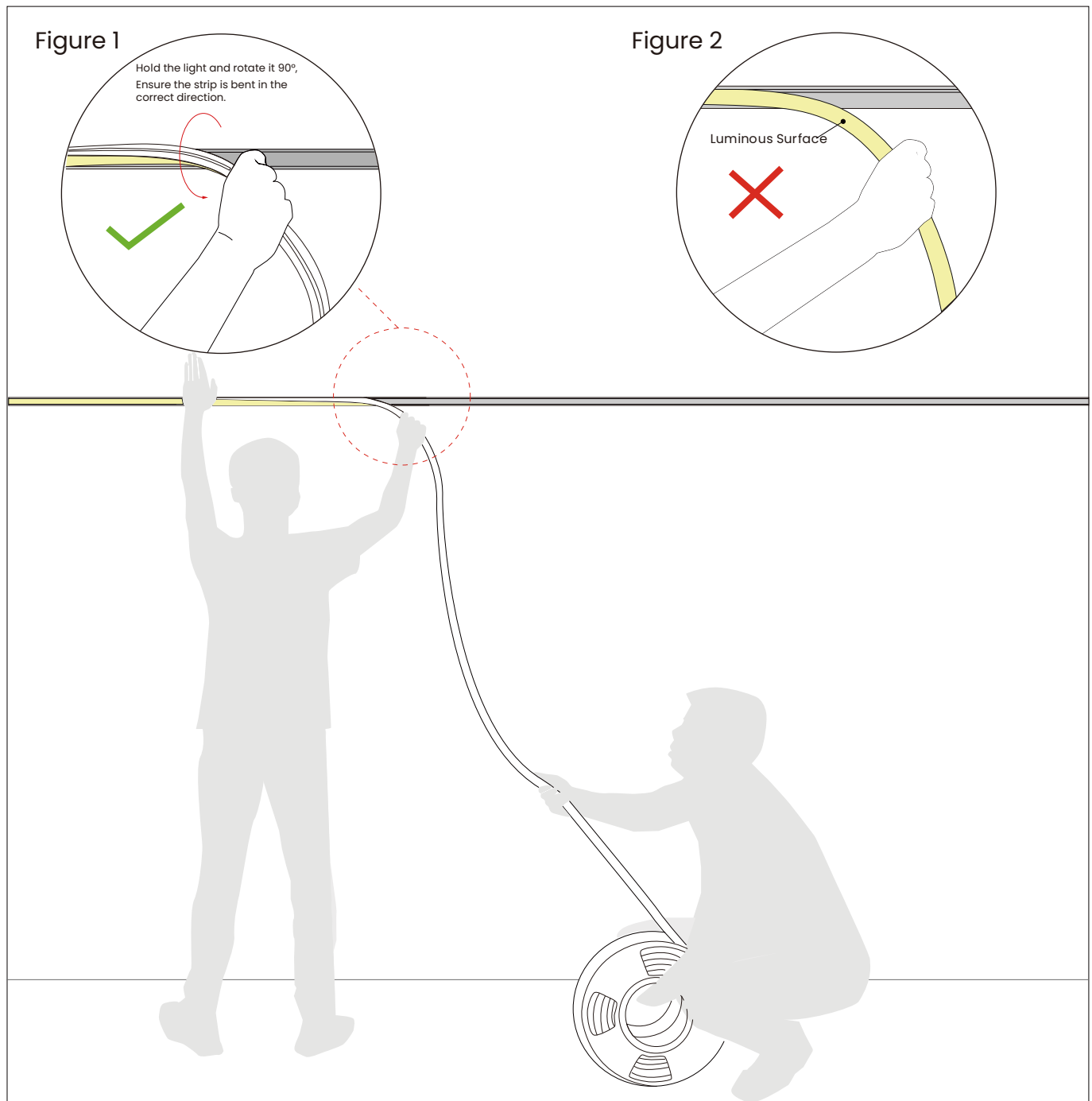


1.Installer:

- Press the light with the palm of the left hand to slowly load it into the slot. Use your right hand to guide the strip so it bends downward in the correct direction. 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 feed the strip to the installer, Do not pull or twist the light during the installation.

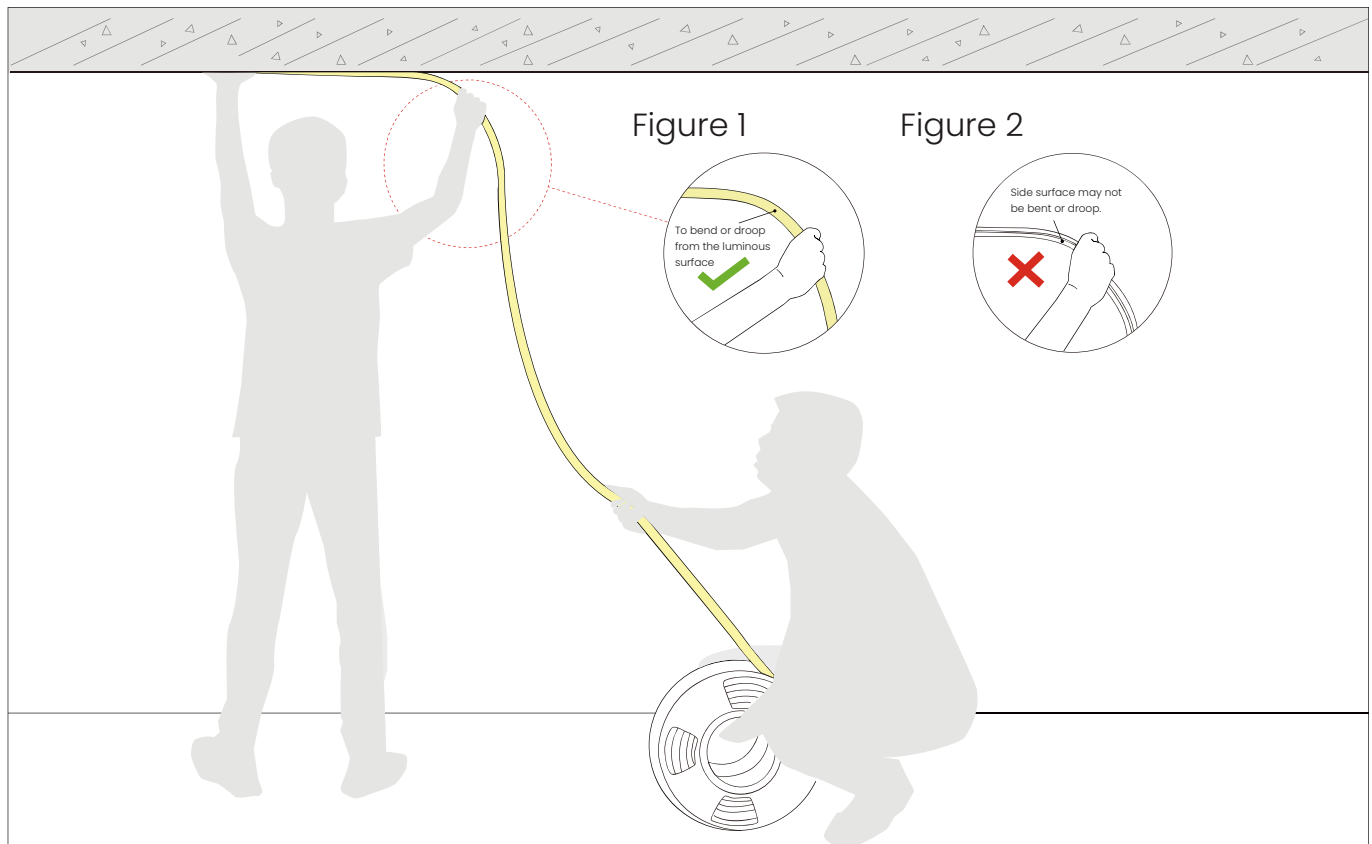
Installation Precautions--Side Mounted (If the length of the light is more than 5 meters, two people must work together to install it.)**1.Installer:**

- Press the light with the palm of the left hand to slowly load it into the slot. Use your right hand to guide the strip so it bends downward in the correct direction. See Figure 1.
- Do not bend the luminous surface to the side. See Figure 2.

2.Assistant:

- Cooperate with the installer to slowly feed the strip to the 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 people 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.
- Side surface may not be bent or droop. 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.

Packaging Information



Standard Packaging: White carton with paper reel inside.

Model	Qty/Roll(m)	Rolls/Carton	Carton Size	Net Weight	Gross Weight
NS-T1617F 24V IP67	5m	8	41 x 41 x 26 cm	11.8 kg/carton	13.2 kg/carton

For reference only. Final packing information shall be subject to actual shipment.

Notes

Cable size at the power-supply output depends on the total load current and cable length. Select the cable according to the table below.

Light Current	Cable Specification								
	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.
- ※ Use a 24 V DC isolated constant-voltage power supply with ripple below 5%. Using other types of power supply may damage the light or cause other safety risks.
- ※ In practical application, Reserve at least 20% power-supply headroom.
- ※ 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 reverse polarity, 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 may cause overload, overheating, 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.
- ※ Installation, disassembly, and maintenance must be performed by qualified personnel only.
- ※ Do not use any acidic 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 versions are factory-customized only. User cutting or processing may compromise IP68 protection.
- ※ Because of the difference in structure, even if the same color temperature value, products of different sizes may appear slightly different in color.

Tests showed that formaldehyde and benzene compounds can cause yellowing of silicone. In newly decorated interiors, epoxy floor paint, wall paint, wallpaper adhesive, decoration materials, and new furniture may release formaldehyde and benzene compounds. It is recommended to remove these substances first, or ventilate the area for a period before installing the silicone neon light, to avoid affecting the silicone body.