SPECIFICATION
3D BEND NEON

NS-3D1010 24V IP67

5027545

E540692

Version: A/01
www.ledyi.com sales@ledyi.com

IP67 NEON NS-3D1010 24V 3D BEND

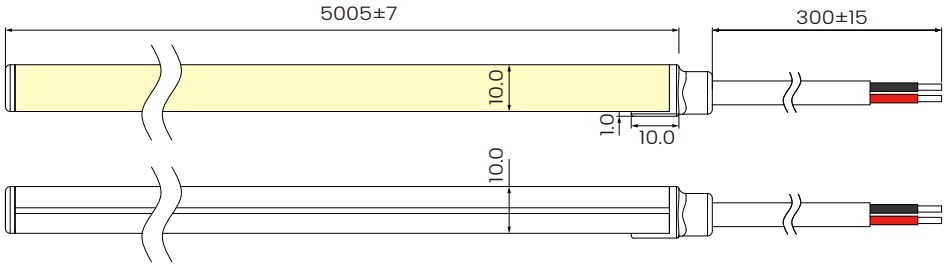
Features

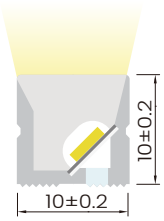
- It is made of Dow Chemical SILASTIC™ ET-7021 silicone rubber, which provides high transparency and high strength.
- Environmental protection grade silicone material, integrated extrusion molding process.
- Unique optical light distribution structure design, uniform lighting surface and no shadow.
- IP67 protection level, salt solution resistance, acids & alkalis and UV resistance.
- Excellent toughness, simple and stylish appearance, delicate and unique.
- Combine with top bend and side bend, to meet the request of the different space bend.
- 3-5 years warranty, working life ≥50000 hours.

2700K 3000K 3500K 4000K 5000K 6500K

R G B Y O P

Dimensions(Unit: mm)

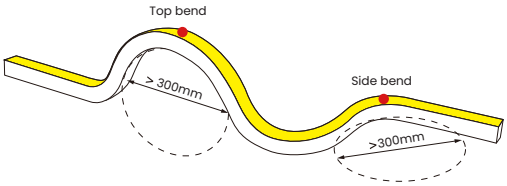




Cross section

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



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

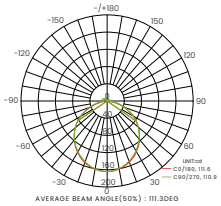
Power Ratings

Power(w/m)	10
Efficacy (lm/w) @4000K	50.6
Max Ambient Temperature	45°C

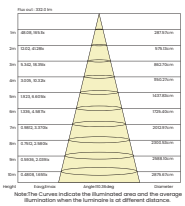
Due to production and component tolerances, light output and electrical power may vary by up to ±10%.

Length Standard

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



Light Distribution Curve



Effective Average Illuminance

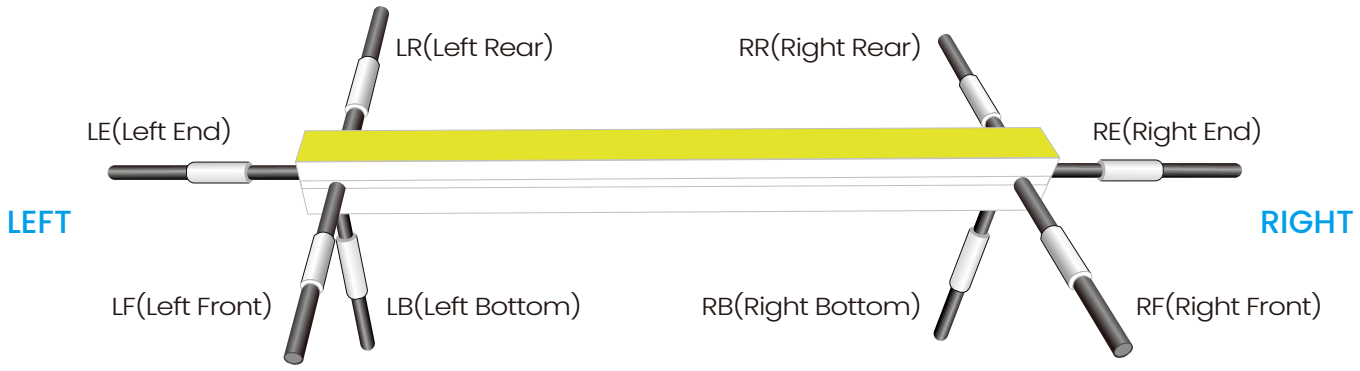
Note: The above date is based on a 24 V, 10 W/m, single-color product at 4000 K. For IES files for other versions, contact our sales team.

Single Color: Model NS-3D1010V24-Cx-F

CCT(K)	CRI	Voltage	Power(W/m)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700±150	≥90	DC24V	10	464	46.4	35.7	5	CV
3000±150	≥90	DC24V	10	486	48.6	35.7	5	CV
3500±200	≥90	DC24V	10	491	49.1	35.7	5	CV
4000 $^{+400}_{-200}$	≥90	DC24V	10	506	50.6	35.7	5	CV
5000 $^{+500}_{-300}$	≥90	DC24V	10	506	50.6	35.7	5	CV
6500±500	≥90	DC24V	10	493	49.3	35.7	5	CV
Red	--	DC24V	10	168	16.8	35.7	5	CV
Green	--	DC24V	10	445	44.5	35.7	5	CV
Blue	--	DC24V	10	95	9.5	35.7	5	CV
Yellow	--	DC24V	10	110	11.0	35.7	5	CV
Orange	--	DC24V	10	147	14.7	35.7	5	CV
Pink	--	DC24V	10	371	37.1	35.7	5	CV

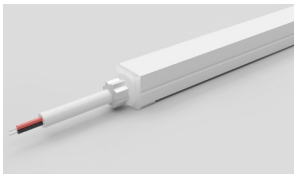
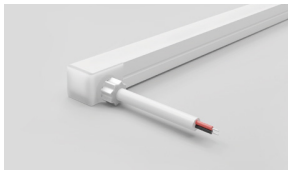
- Maximum run length refers to the maximum length powered from one end using the standard 30 cm cable.
- The specified color temperature refers to the finished product.
- The values shown are typical. Due to production and component tolerances, light output and electrical power may vary by up to ±10%.
- All products can be dimmed; the dimmer voltage must match the rated voltage of the LED strip.
- The output frequency of the constant-current LED dimmer should be less than 2 kHz, and PWM output can control the LED strip.

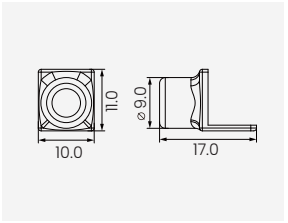
Cable Entry Directions

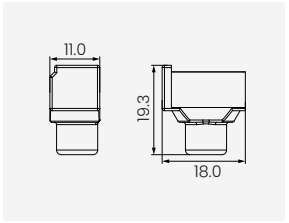


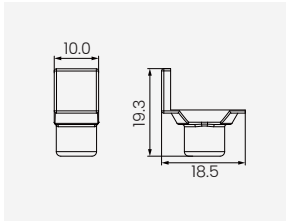
Cable Entry and End Cap Options (Unit: mm)

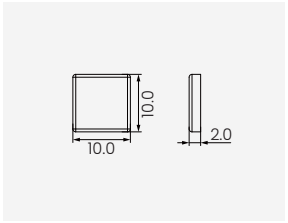
Integral end cap (IP67)

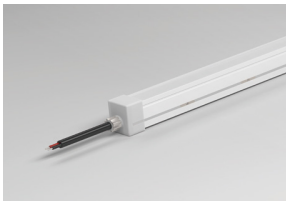
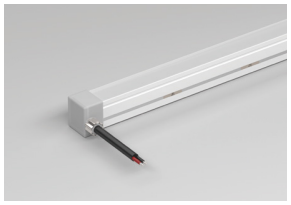
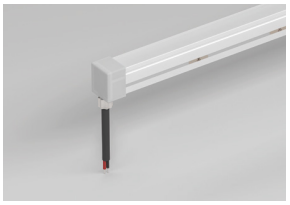
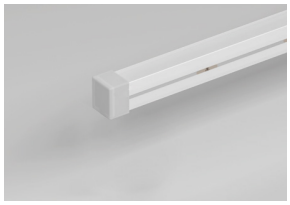
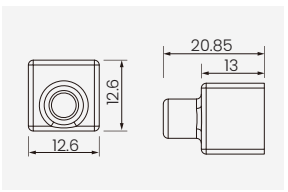


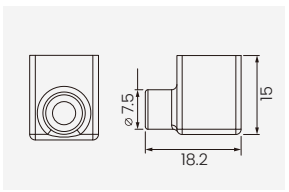


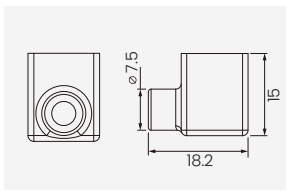


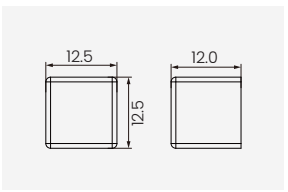
Front Cable Entry | Side Cable Entry | Bottom Cable Entry | Closed End cap

Silicone end cap (IP67)

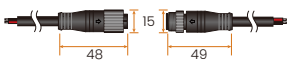
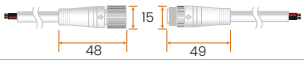






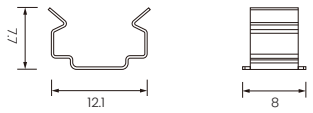
Front Cable Entry | Side Cable Entry | Bottom Cable Entry | Closed End cap

Cables and Connectors

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD: 4.0 mm / Conductor: 20 AWG	●●	Red V+ / Black V-
Waterproof Connector with PVC Cable		OD: 4.0 mm / Conductor: 20 AWG M12 Male/Female Connector	●●	Red V+ / Black V-
Silicone Cable		OD: 6.0mm / Conductor: 20AWG	●●	Red V+ / Black V-
Waterproof Connector with Silicone Cable		OD: 6.0 mm / Conductor: 20 AWG M12 Male/Female Connector	●●	Red V+ / Black V-

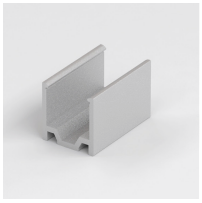
Installation Accessories

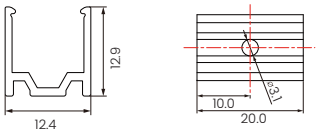
Stainless Steel Mounting clips



Name	Stainless Steel Mounting clips
Dimension:	8X7.7X12.1mm
Accessories:	Screw M3x16 (SUS304)

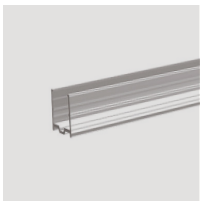
Aluminium Mounting clips : 1213

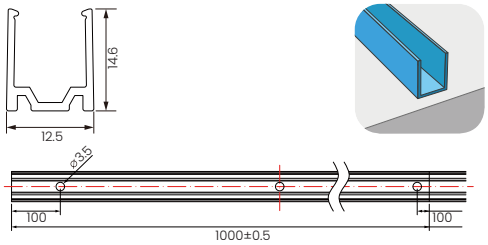




Name	Aluminium Mounting clips : 1213
Dimension:	20x12.4x12.9mm
Accessories:	Screw M3x16 (SUS304)

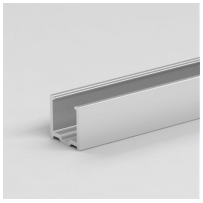
Transparent plastic groove : 1215 PC

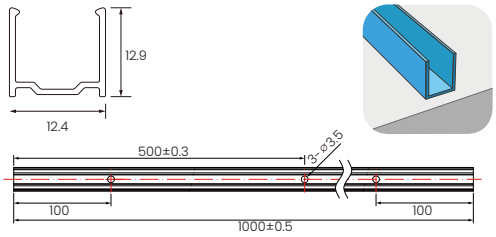




Name	Transparent plastic groove : 1215 PC
Dimension:	1000(±0.5)x12.5x14.6mm
Accessories:	Screw M3x16 (SUS304)

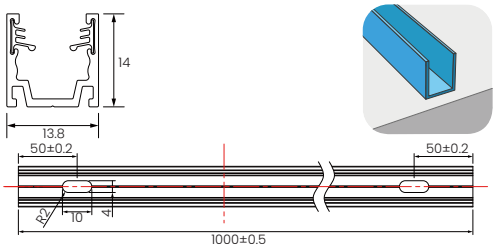
Aluminium Profile : 1213





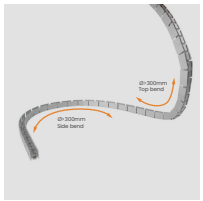
Name	Aluminium Profile : 1213
Dimension:	1000(±0.5)x12.4x12.9mm
Accessories:	Screw M3x16 (SUS304)

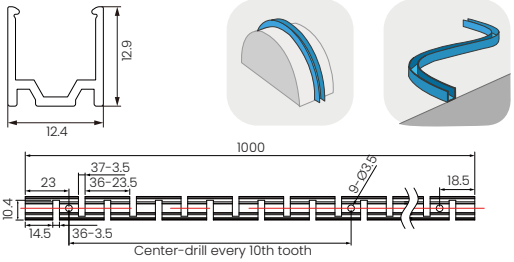
Internal Gear Profile: 1414 B



Name	Internal Gear Profile: 1414 B
Dimension:	1000(±0.5)x13.8x14mm
Accessories:	Screw M3x16 (SUS304)

Curved profile : 1213

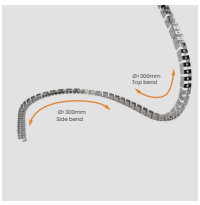


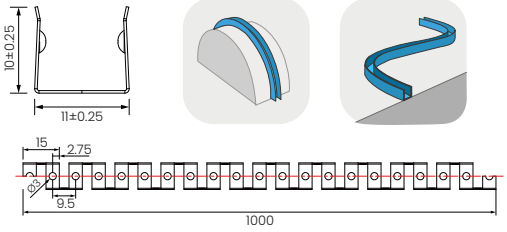


Name	Curved profile : 1213
Dimension:	1000x12.4x12.9mm
Accessories:	Screw M3x16 (SUS304)

Installation Accessories

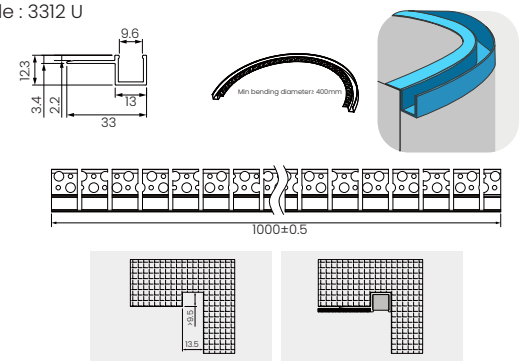
Curved profile





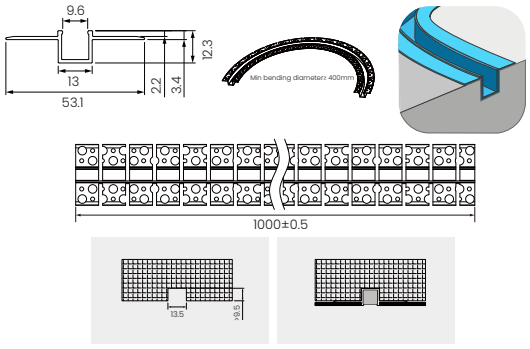
Name	Curved profile
Dimension:	1000x11x10mm
Accessories:	Screw M3x16 (SUS304)

Flexible Recessed
Single-Sided Aluminum Profile : 3312 U



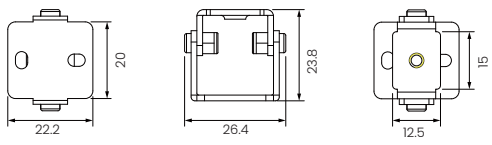
Name	Flexible RecessedSingle-Sided Aluminum Profile : 3312 U
Dimension:	1000(±0.5)x33x12.3mm
Accessories:	Screw M3x16 (SUS304)

Flexible Recessed
Double-Sided Aluminum Profile : 5312 U



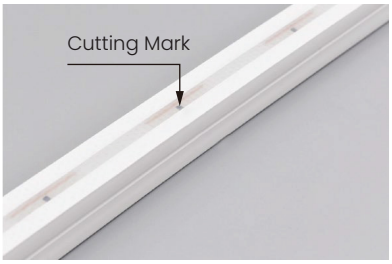
Name	Flexible Recessed Double-Sided Aluminum Profile : 5312 U
Dimension:	1000(±0.5)x53.1x12.3mm
Accessories:	Screw M3x16 (SUS304)

Adjustable Angle Clip
(use with aluminum clips or profile)



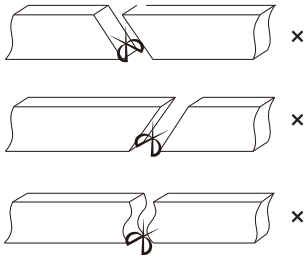
Name	Adjustable Angle Clip (use with aluminum clips or profile)
Dimension:	22.2x26.4x23.8mm
Accessories:	Screw M3x25 (SUS304), M3.5x8 (SUS304)

Cutting Mark



Note:
The bottom of the LED strip has a transparent window. The black mark indicates the cutting position.

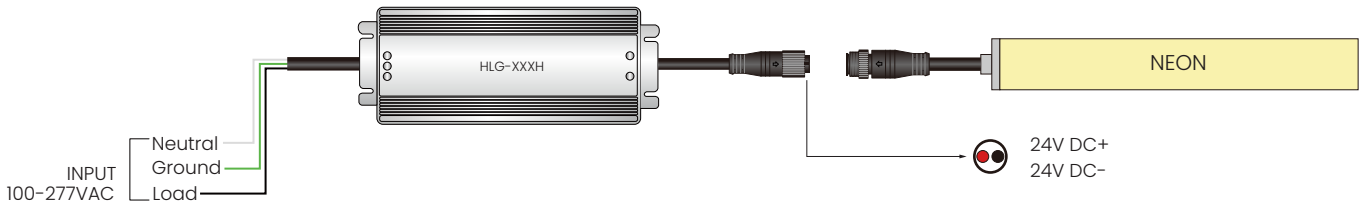
Use a professional cutting tool to cut vertically at the cutting mark.



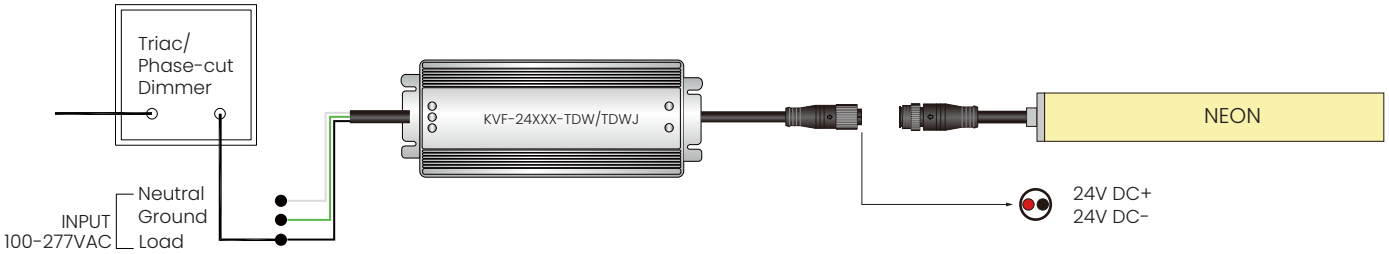
Do not cut at an oblique angle or along a curved section.

Single Color Connection Diagram

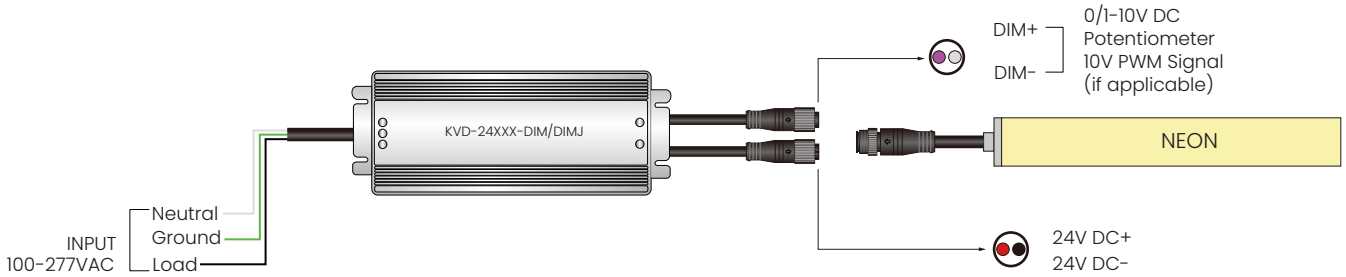
Non-dimmable



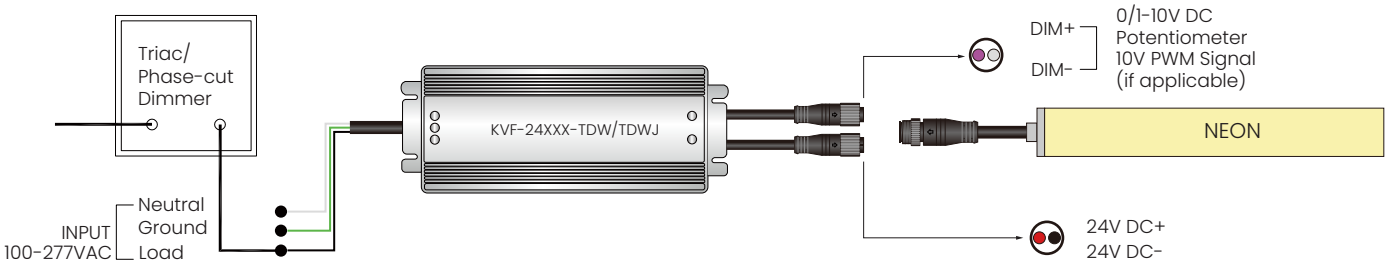
Phase-Cut / TRIAC Dimming



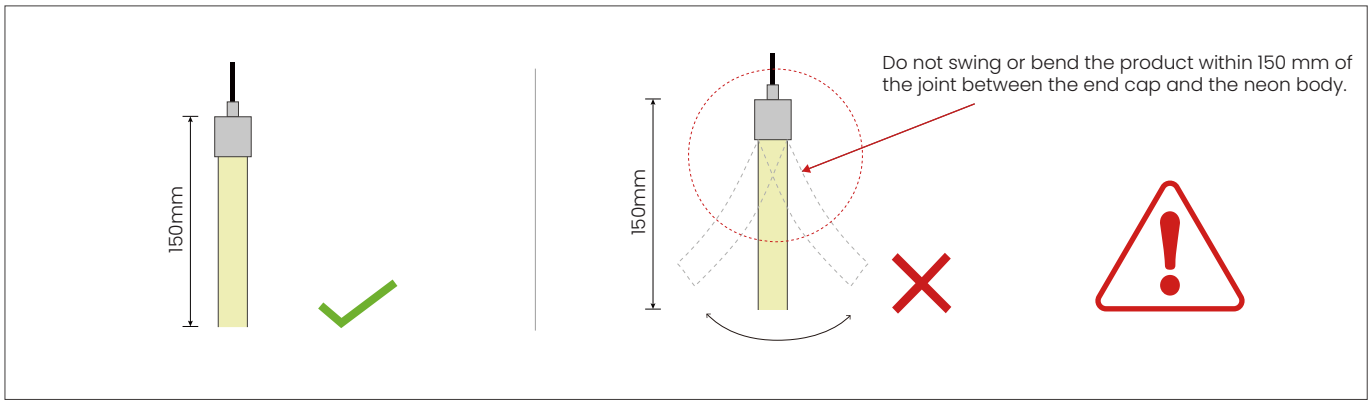
4-in-1 Dimming(0-10V/1-10V/Potentiometer/10V PWM)

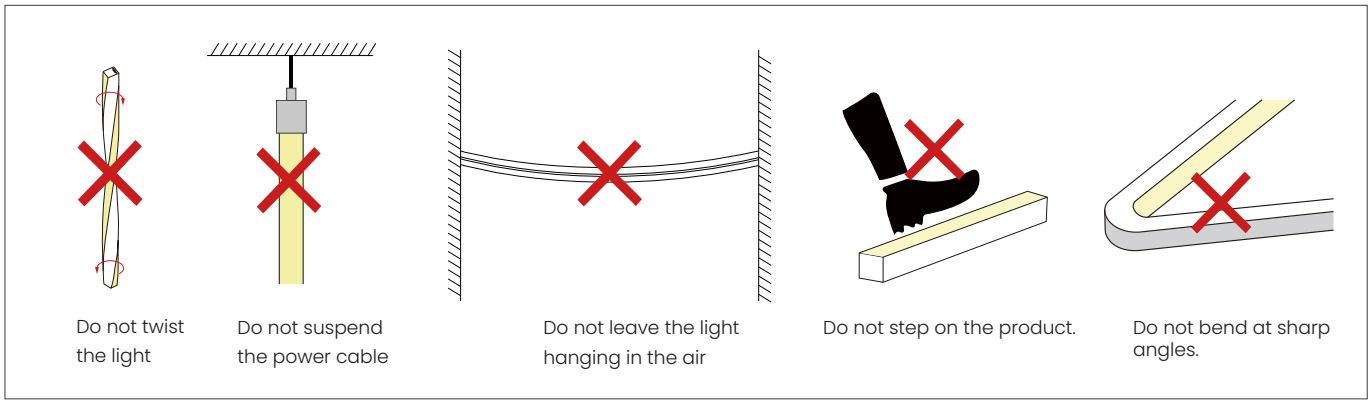


5-in-1 Dimming (Triac/0-10V/1-10V/Potentiometer/10V PWM)



Installation Precautions





Do not twist the light

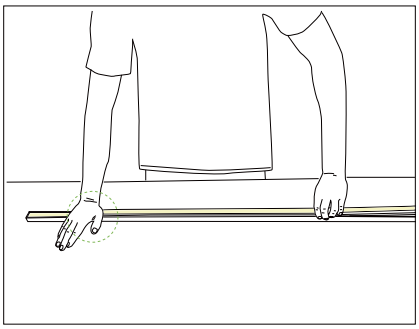
Do not suspend the power cable

Do not leave the light hanging in the air

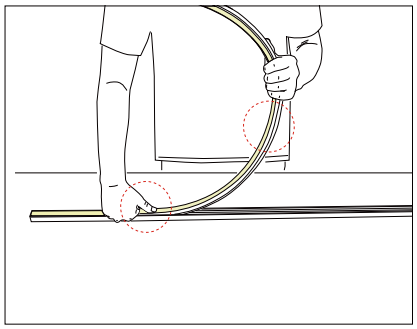
Do not step on the product.

Do not bend at sharp angles.

Insert into the Profile

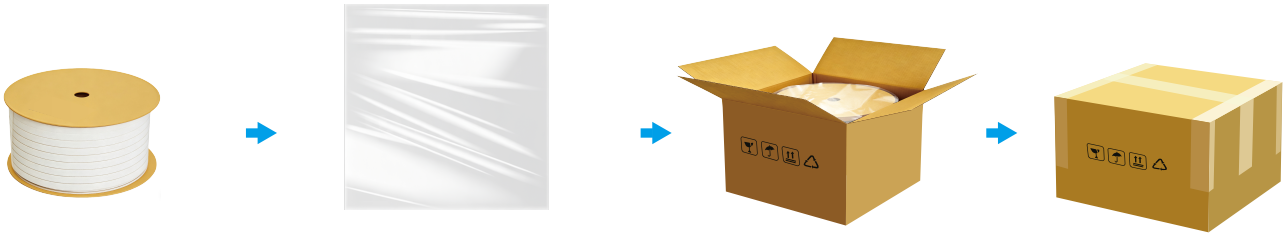


- Use your palm to slowly press the LED strip into the channel, then gently straighten it along the channel.
- Try to keep the LED strip in a flat state during the installation process.



- 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.

Packaging Information



Standard Packaging: White carton with paper reel inside.

Model	Qty/Roll(m)	Rolls/Carton	Carton Size	Net Weight	Gross Weight
NS-3D1010 24V IP67	5m	15	42 x 43 x 31 cm	12.36 kg/carton	13.36 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 overbend 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 products differ structurally, products of different sizes may appear slightly different in color even at the same CCT.

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.