

SPECIFICATION TOP BEND NEON

NS-T2020 24V IP67

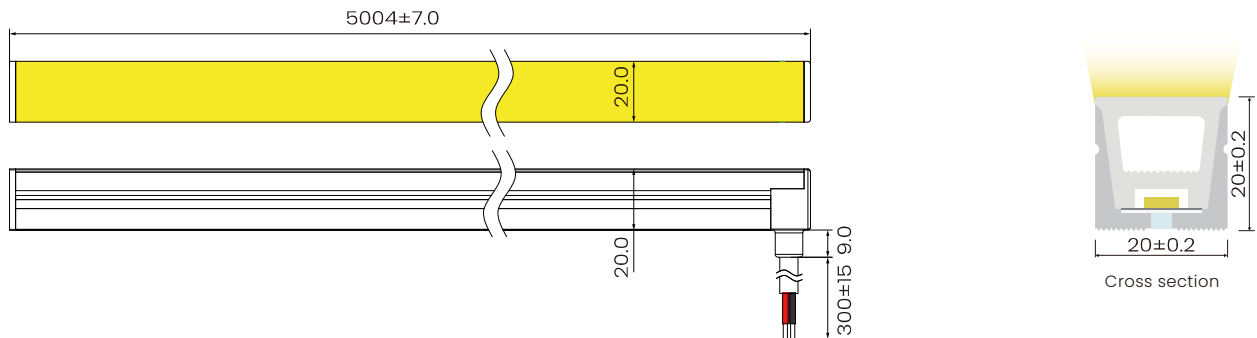


Features

- 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.
- 3-5 years warranty, working life ≥50000 hours.



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

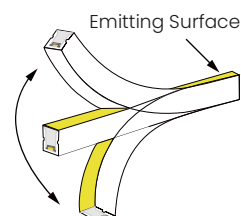
Power Ratings

Power(w/m)	5	10	15
Efficacy (lm/w) @4000K	54.9	52.9	51.2
Max Ambient Temperature	55°C	45°C	35°C

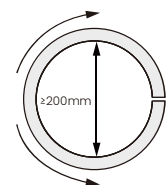
Due to production and component tolerances, light output and electrical power may vary by up to ±10%.

Length Standard

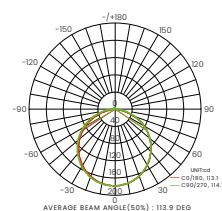
Length Range (M)	Final Length		Tolerance
	Integral end cap	Silicone end cap	
0M<Neon Strip(L)≤5M	L+4	L+3	±7
5M<Neon Strip(L)≤10M	L+4	L+3	±10
10M<Neon Strip(L)≤15M	L+4	L+3	±13
15M<Neon Strip(L)≤20M	L+4	L+3	±16
20M<Neon Strip(L)≤25M	L+4	L+3	±19
25M<Neon Strip(L)≤30M	L+4	L+3	±22
30M<Neon Strip(L)≤35M	L+4	L+3	±25



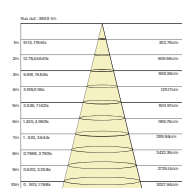
Vertical Bending



Min. Bending Diameter



Light Distribution Curve



Effective Average Illuminance

Note: The above data 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-T2020V24-CCx-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
1800K±150	≥90	DC24V	5	220	44.1	50	27	CC
			10	420	42.0	50	18	CC
			15	601	40.1	50	12	CC
2100K±150	≥90	DC24V	5	241	48.3	50	27	CC
			10	460	46.0	50	18	CC
			15	658	43.9	50	12	CC
2400K±150	≥90	DC24V	5	256	51.2	50	27	CC
			10	490	49.0	50	18	CC
			15	707	47.1	50	12	CC
2700K±150	≥90	DC24V	5	269	53.9	50	27	CC
			10	513	51.3	50	18	CC
			15	734	48.9	50	12	CC
3000K±150	≥90	DC24V	5	284	56.7	50	27	CC
			10	542	54.2	50	18	CC
			15	783	52.2	50	12	CC
3500K±200	≥90	DC24V	5	273	54.6	50	27	CC
			10	520	52.0	50	18	CC
			15	744	49.6	50	12	CC
4000K ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24V	5	275	54.9	50	27	CC
			10	529	52.9	50	18	CC
			15	769	51.2	50	12	CC
5000K ⁺⁵⁰⁰ ₋₃₀₀	≥90	DC24V	5	274	54.7	50	27	CC
			10	526	52.6	50	18	CC
			15	762	50.8	50	12	CC
6500K±500	≥90	DC24V	5	283	56.6	50	27	CC
			10	545	54.5	50	18	CC
			15	791	52.7	50	12	CC
Red	--	DC24V	5	114	22.8	50	35	CC
			10	228	22.8	50	18	CC
			--	--	--	--	--	--
Green	--	DC24V	5	329	65.8	50	27	CC
			10	547	54.7	50	16	CC
			15	706	47.1	50	10	CC
Blue	--	DC24V	5	58	11.7	50	27	CC
			10	111	11.1	50	18	CC
			15	154	10.3	50	12	CC
Yellow	--	DC24V	5	86	17.2	50	35	CC
			10	176	17.6	50	18	CC
			--	--	--	--	--	--
Orange	--	DC24V	5	104	20.8	50	35	CC
			10	225	22.5	50	18	CC
			--	--	--	--	--	--
Pink	--	DC24V	5	245	49.1	50	27	CC
			10	471	47.1	50	18	CC
			15	678	45.2	50	12	CC

Tunable White –SMD2835: Model NS-T2020V24-Ca-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700K±150	≥90	DC24V	7.5	383	51.0	62.5	5	CV
6500K±500	≥90	DC24V	7.5	402	53.6	62.5	5	CV
2700K+6500K	≥90	DC24V	15	779	51.9	62.5	5	CV

Tunable White –SMD3014: Model NS-T2020V24-Ca-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700K±150	≥90	DC24V	7.5	365	48.7	50	5	CV
6500K±500	≥90	DC24V	7.5	394	52.5	50	5	CV
2700K+6500K	≥90	DC24V	15	755	50.3	50	5	CV

RGB–SMD4040: Model NS-T2020V24-Crgb-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	5	91	18.1	62.5	5	CV
G	--	DC24V	5	247	49.3	62.5	5	CV
B	--	DC24V	5	46	9.2	62.5	5	CV
RGB	--	DC24V	15	374	24.9	62.5	5	CV

RGB–SMD5050: Model NS-T2020V24-Crgb-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	5	89	17.8	83.3	5	CV
G	--	DC24V	5	292	58.3	83.3	5	CV
B	--	DC24V	5	51	10.2	83.3	5	CV
RGB	--	DC24V	15	416	27.7	83.3	5	CV

RGBW-SMD5050RGB+2835: Model NS-T2020V24-Crgbwx-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	3.8	69	18.3	83.3	5	CV
G	--	DC24V	3.8	243	64.7	83.3	5	CV
B	--	DC24V	3.8	46	12.2	83.3	5	CV
W:2700±150	≥90	DC24V	3.8	217	57.8	83.3	5	CV
RGBW	--	DC24V	15	581	38.7	83.3	5	CV
R	--	DC24V	3.8	69	18.3	83.3	5	CV
G	--	DC24V	3.8	243	64.7	83.3	5	CV
B	--	DC24V	3.8	46	12.2	83.3	5	CV
W:3000±150	≥90	DC24V	3.8	228	60.7	83.3	5	CV
RGBW	--	DC24V	15	594	39.6	83.3	5	CV
R	--	DC24V	3.8	69	18.3	83.3	5	CV
G	--	DC24V	3.8	243	64.7	83.3	5	CV
B	--	DC24V	3.8	46	12.2	83.3	5	CV
W:4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24V	3.8	222	59.3	83.3	5	CV
RGBW	--	DC24V	15	591	39.4	83.3	5	CV
R	--	DC24V	3.8	69	18.3	83.3	5	CV
G	--	DC24V	3.8	243	64.7	83.3	5	CV
B	--	DC24V	3.8	46	12.2	83.3	5	CV
W:6500±500	≥90	DC24V	3.8	225	59.9	83.3	5	CV
RGBW	--	DC24V	15	588	39.2	83.3	5	CV

RGBW-SMD5050RGBW(4in1): Model NS-T2020V24-Crgbwx-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	3.8	61	16.2	62.5	5	CV
G	--	DC24V	3.8	142	37.8	62.5	5	CV
B	--	DC24V	3.8	43	11.5	62.5	5	CV
W:2700±150	≥80	DC24V	3.8	172	45.8	62.5	5	CV
RGBW	--	DC24V	15	425	28.3	62.5	5	CV
R	--	DC24V	3.8	67	17.8	62.5	5	CV
G	--	DC24V	3.8	161	42.9	62.5	5	CV
B	--	DC24V	3.8	47	12.4	62.5	5	CV
W:3000±150	≥80	DC24V	3.8	165	43.9	62.5	5	CV
RGBW	--	DC24V	15	407	27.1	62.5	5	CV
R	--	DC24V	3.8	67	17.8	62.5	5	CV
G	--	DC24V	3.8	161	42.9	62.5	5	CV
B	--	DC24V	3.8	47	12.4	62.5	5	CV
W:4000±300	≥80	DC24V	3.8	186	49.6	62.5	5	CV
RGBW	--	DC24V	15	447	29.8	62.5	5	CV
R	--	DC24V	3.8	67	17.8	62.5	5	CV
G	--	DC24V	3.8	161	42.9	62.5	5	CV
B	--	DC24V	3.8	47	12.4	62.5	5	CV
W:6500±400	≥80	DC24V	3.8	191	50.8	62.5	5	CV
RGBW	--	DC24V	15	455	30.3	62.5	5	CV

RGB Pixel DMX512: Model NS-T2020V24-Crgb-UCS512CIL-8P-C

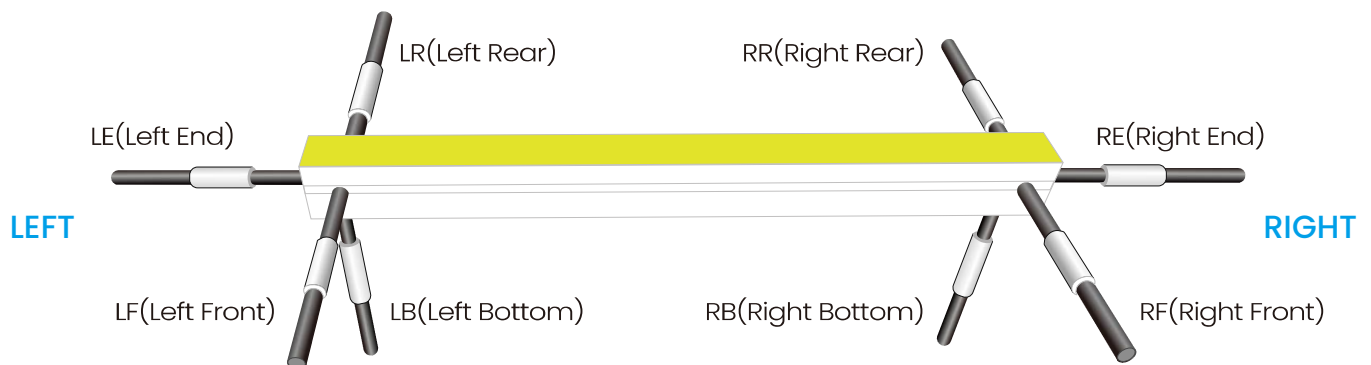
CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Pixel (PCS)	Unit Length (mm)	Max. Run Length (M)	IC Model
R	--	DC24V	5	42	8.3	8	125	7	UCS512CIL
G	--	DC24V	5	156	31.2	8	125	7	UCS512CIL
B	--	DC24V	5	27	5.4	8	125	7	UCS512CIL
RGB	--	DC24V	12	224	18.7	8	125	7	UCS512CIL

RGBW Pixel DMX512: Model NS-T2020V24-Crgbwx-UCS512C1L-8P-C

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Pixel (PCS)	Unit Length (mm)	Max. Run Length (M)	IC Model
R	--	DC24V	5	37	7.3	8	125	7	UCS512C1L
G	--	DC24V	5	111	22.1	8	125	7	UCS512C1L
B	--	DC24V	5	27	5.3	8	125	7	UCS512C1L
W:4500±300	≥80	DC24V	5	126	25.1	8	125	7	UCS512C1L
RGBW	--	DC24V	15	302	20.1	8	125	7	UCS512C1L

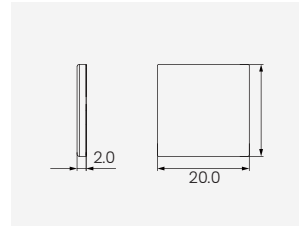
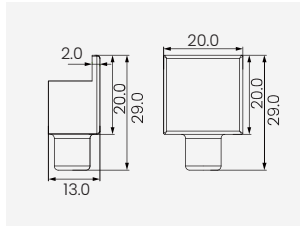
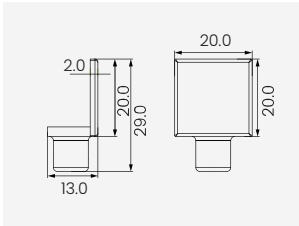
- Maximum run length refers to the maximum length powered from one end using the standard 30 cm cable.
- The specified color temperature refers to the finished product.
- The values shown are typical. Due to production and component tolerances, light output and electrical power may vary by up to ±10%.
- 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)

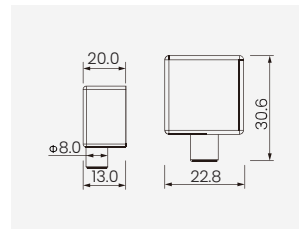
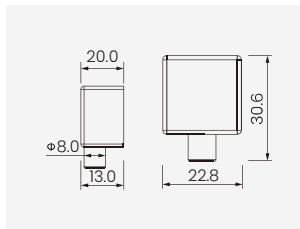
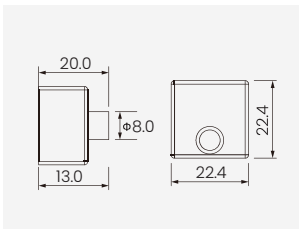
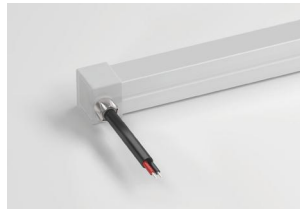
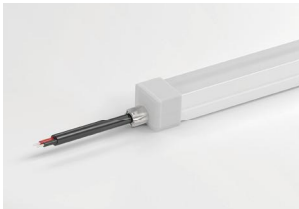


Side Cable Entry

Bottom Cable Entry

Closed End cap

Silicone end cap (IP67)



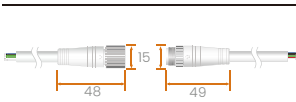
Front Cable Entry

Side Cable Entry

Bottom Cable Entry

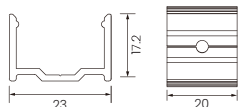
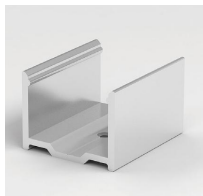
Closed End cap

Cables and Connectors

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD: 5.0 mm / Conductor: 20 AWG	● ●	Red V+ / Black V-
		OD: 5.0 mm / Conductor: 20 AWG	● ○ ●	Brown V+ / White W / Yellow WW
		OD: 5.5 mm / Conductor: 20 AWG	● ● ● ●	Black V+ / Blue B / Green G / Red R
		OD: 5.5 mm / Conductor: 22 AWG	● ○ ● ● ●	Black V+ / White W / Blue B / Green G / Red R
Waterproof Connector with PVC Cable		OD: 5.0 mm / Conductor: 20 AWG M12 Male/Female Connector	● ●	Red V+ / Black V-
		OD: 5.0 mm / Conductor: 20 AWG M12 Male/Female Connector	● ○ ●	Brown V+ / White W / Yellow WW
		OD: 5.5 mm / Conductor: 20 AWG M12 Male/Female Connector	● ● ● ●	Black V+ / Blue B / Green G / Red R
		OD: 5.5 mm / Conductor: 22 AWG M12 Male/Female Connector	● ○ ● ● ●	Black V+ / White W / Blue B / Green G / Red R
		OD: 5.5 mm / Conductor: 22 AWG M12 Male/Female Connector	● ○ ● ● ●	DMX512: Red V+, Green PI / PO, Blue AI / AO, White BI / BO, Black V-
Silicone Cable		OD: 6.0mm / Conductor: 20AWG	● ●	Red V+ / Black V-
		OD: 6.0mm / Conductor: 20AWG	● ○ ●	Black V+ / White W / Yellow WW
		OD: 6.0mm / Conductor: 20AWG	● ● ● ●	Black V+ / Blue B / Green G / Red R
		OD: 6.4mm / Conductor: Red/Black--20AWG Green/Blue/White--22AWG	● ○ ● ● ●	Black V+ / White W / Blue B / Green G / Red R
Waterproof Connector with Silicone Cable		OD: 6.0 mm / Conductor: 20 AWG M12 Male/Female Connector	● ●	Red V+ / Black V-
		OD: 6.0 mm / Conductor: 20 AWG M12 Male/Female Connector	● ○ ●	Black V+ / White W / Yellow WW
		OD: 6.0 mm / Conductor: 20 AWG M12 Male/Female Connector	● ● ● ●	Black V+ / Blue B / Green G / Red R
		OD: 6.4mm / Conductor: Red/Black--20AWG Green/Blue/White--22AWG M12 Male/Female Connector	● ○ ● ● ●	Black V+ / White W / Blue B / Green G / Red R
		OD: 6.4mm / Conductor: Red/Black--20AWG Green/Blue/White--22AWG M12 Male/Female Connector	● ○ ● ● ●	DMX512: Black V-, White BI / BO, Blue AI / AO, Green PI / PO, Red V+

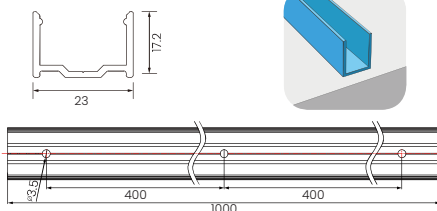
Installation Accessories

Aluminum Mounting clips : 2317



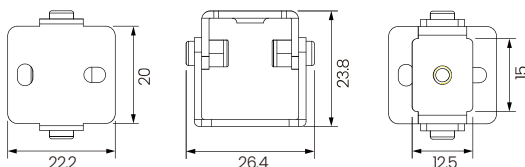
Name	Aluminum Mounting clips : 2317
Dimension:	20x23x17.2mm
Accessories:	M3 × 16 mm (SUS304) screw

Aluminum Profile : 2317



Name	Aluminum Profile : 2317
Dimension:	1000x23x17.2mm
Accessories:	M3 × 16 mm (SUS304) screw
Mounting hole:	diameter 3.5 mm, spacing 400/400 mm

Adjustable Angle Clip
(use with aluminum clips or profile)



Dimension:	22.2x26.4x23.8mm
Accessories:	Screw M3x25mm, Screw M3.5x8mm

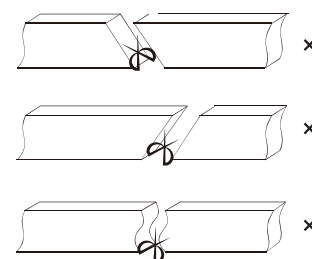
Cutting Mark



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



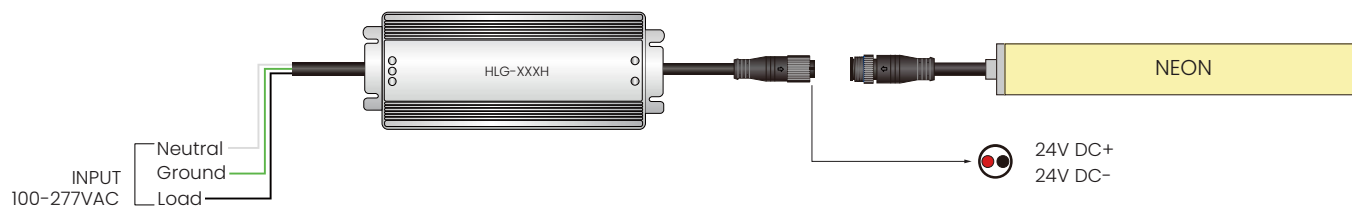
Use a professional cutting tool to cut vertically at the cutting mark.



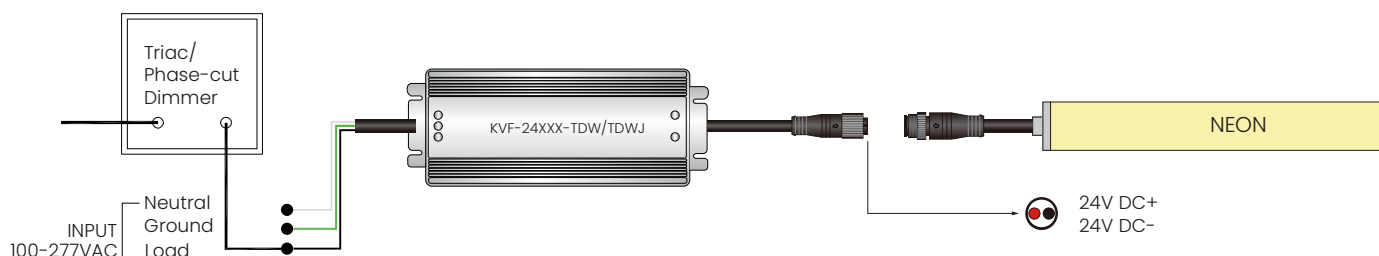
Do not cut at an oblique angle or along a curved section.

Single Color Connection Diagram

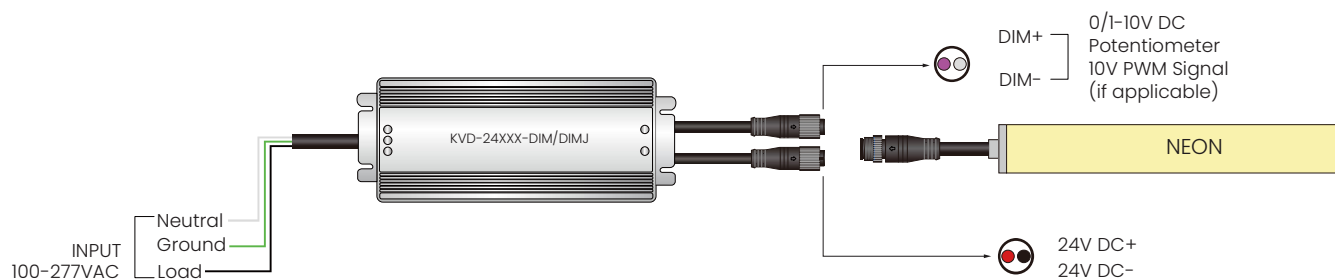
Non-dimmable



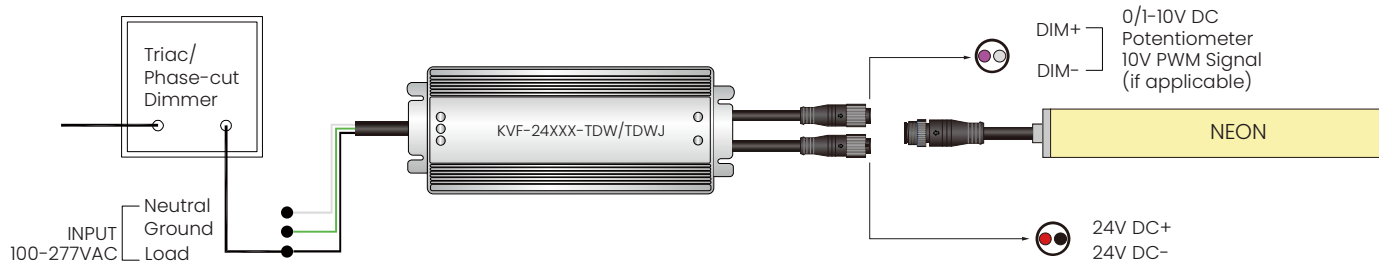
Phase-Cut / TRIAC Dimming



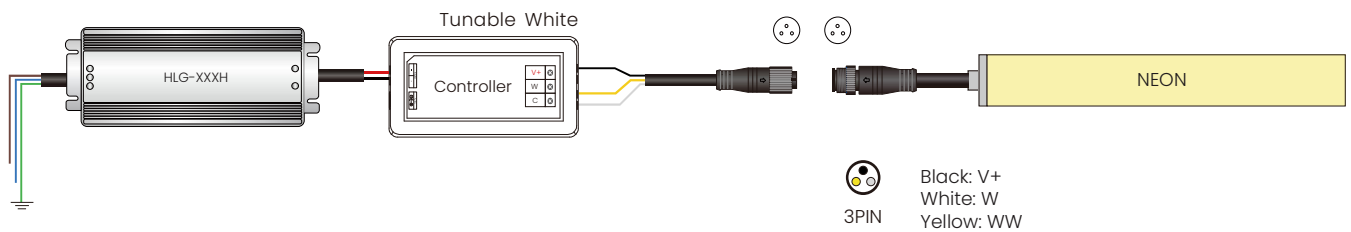
4-in-1 Dimming(0-10V/1-10V/Potentiometer/10V PWM)



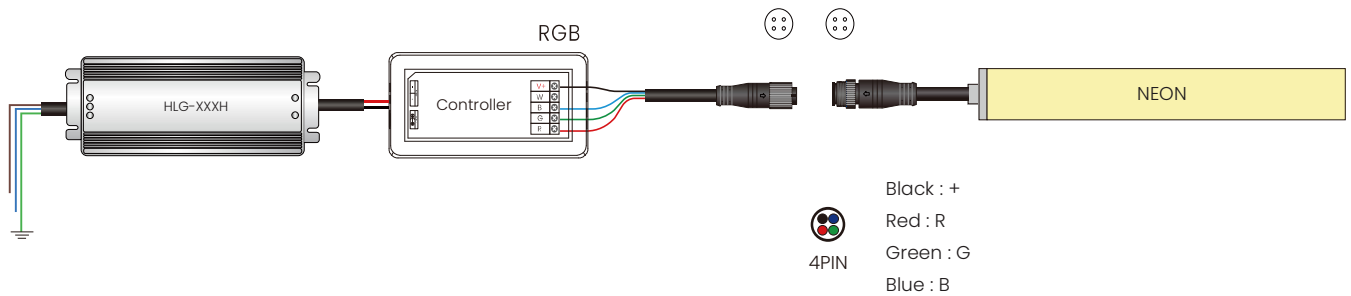
5-in-1 Dimming (Triac/0-10V/1-10V/Potentiometer/10V PWM)



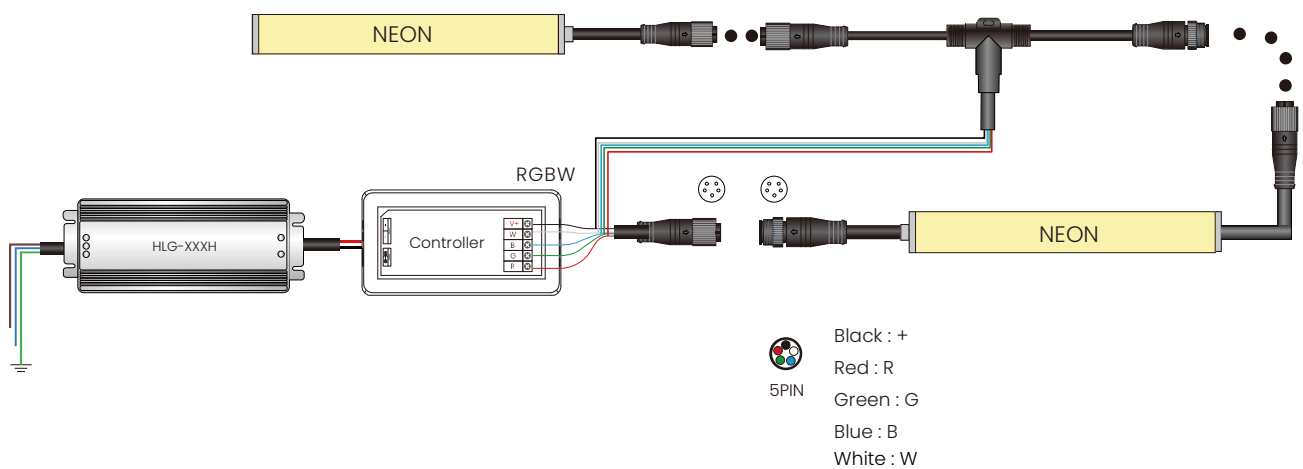
Tunable White Connection Diagram



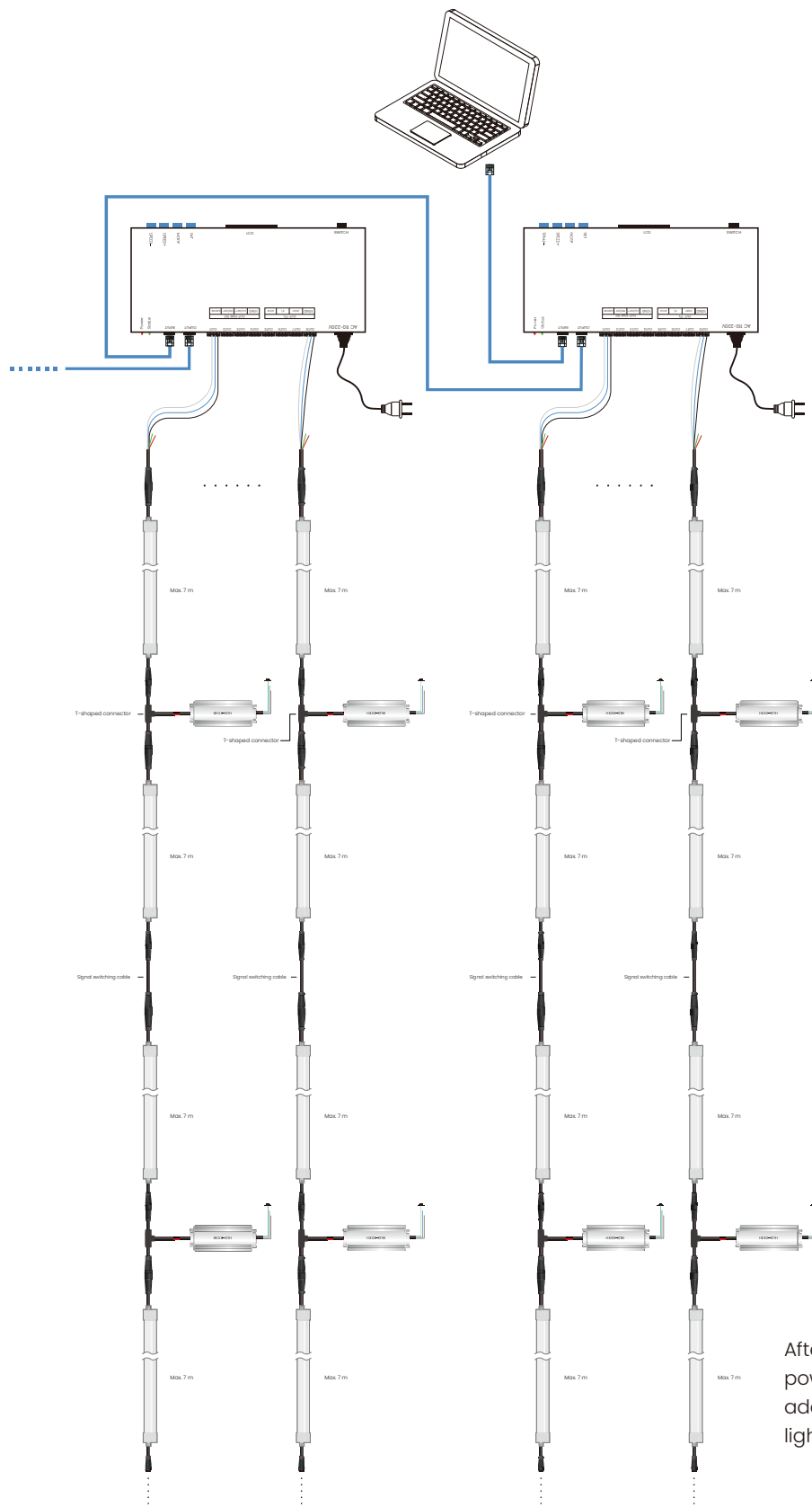
RGB Connection Diagram



RGBW Connection Diagram



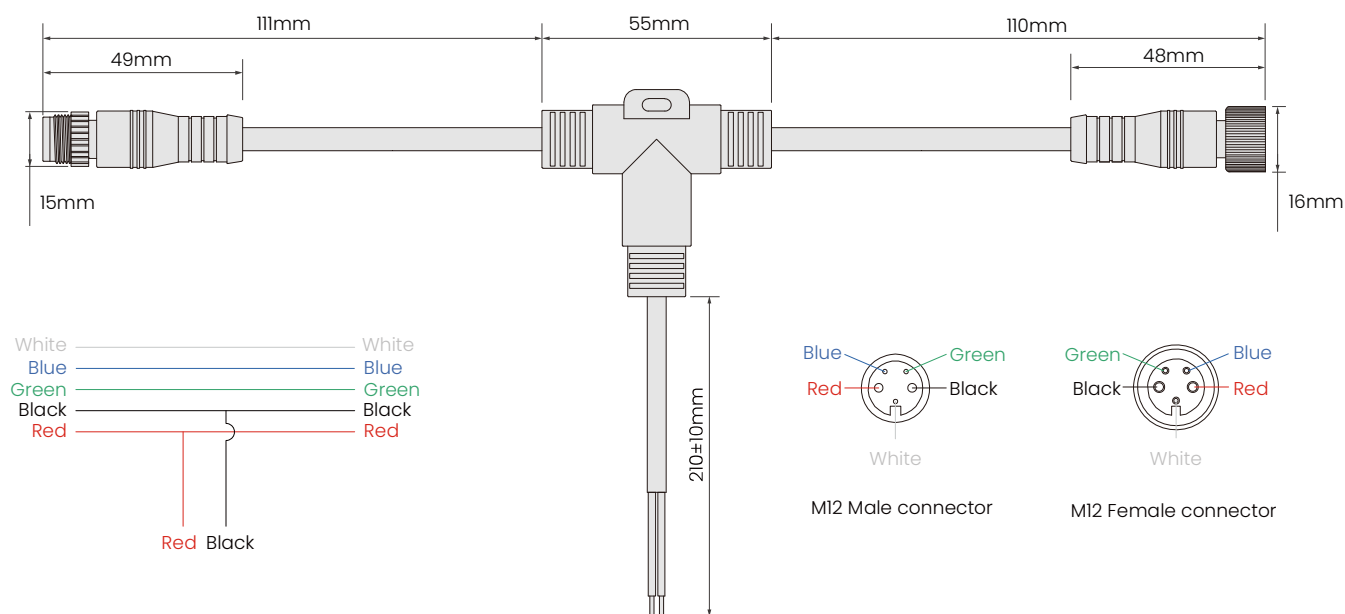
DMX512 Connection Diagram



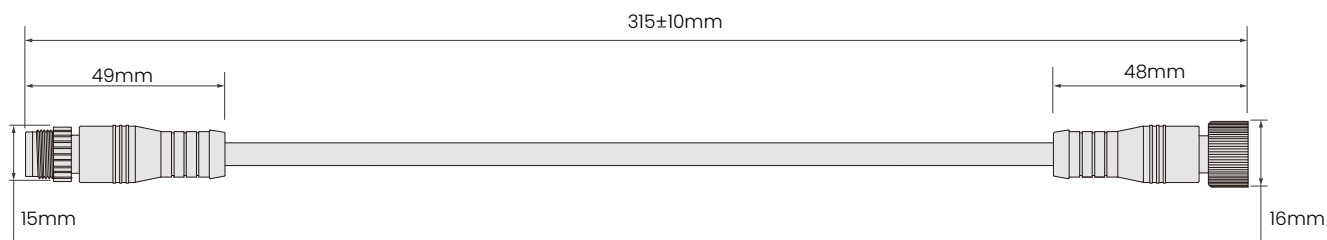
After the LED strip is connected to the signal and power wires, use a controller or address encoder to address the strip. The controller can then run the lighting effects.

DMX512 Accessories

T-type 5 pin connector



Function: Connects LED strips in parallel and passes the signal through.

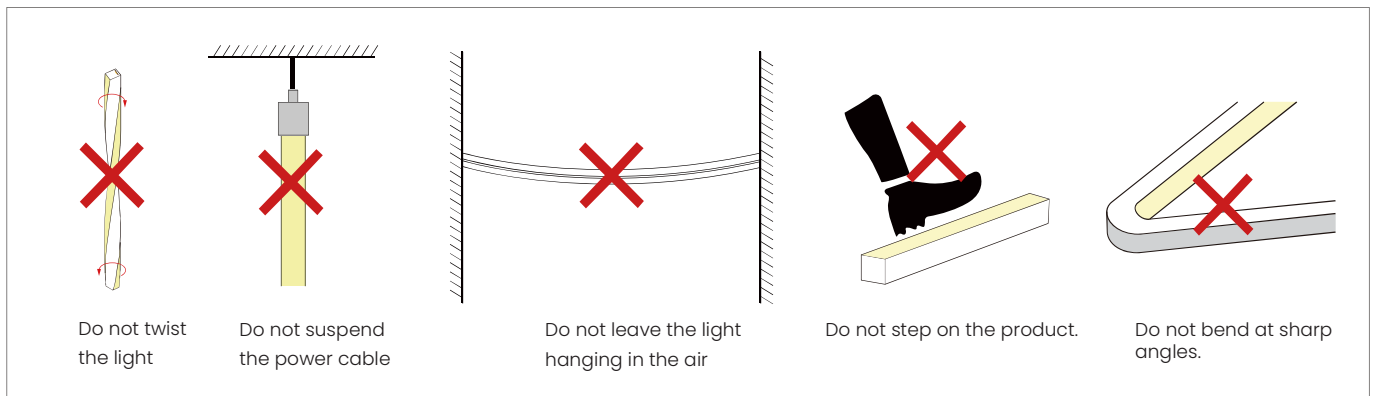
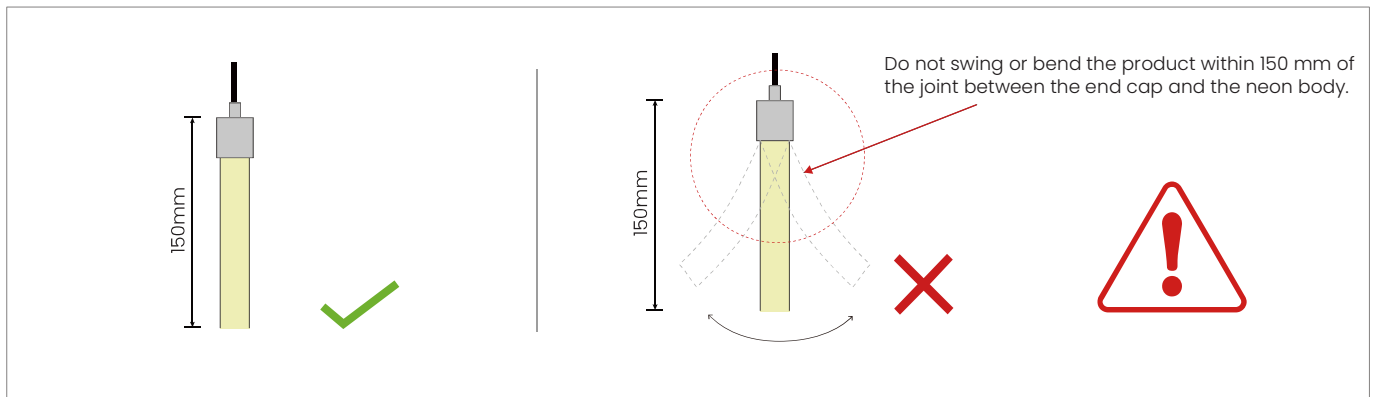


Signal Switching Cable

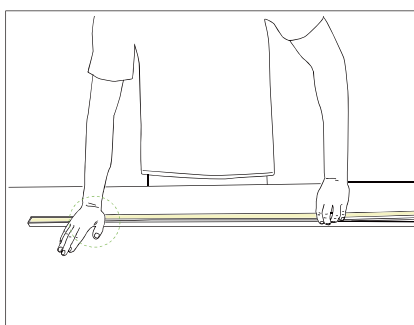


Function: Keeps the signal cable connected in series and disconnects the positive terminal to prevent two power supplies from being connected in parallel.

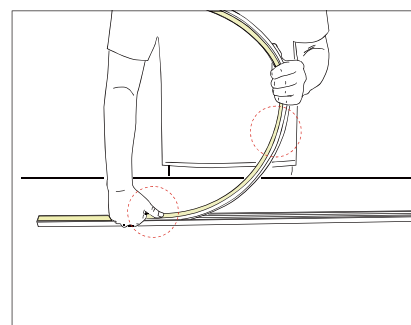
Installation Precautions



Insert into the Profile

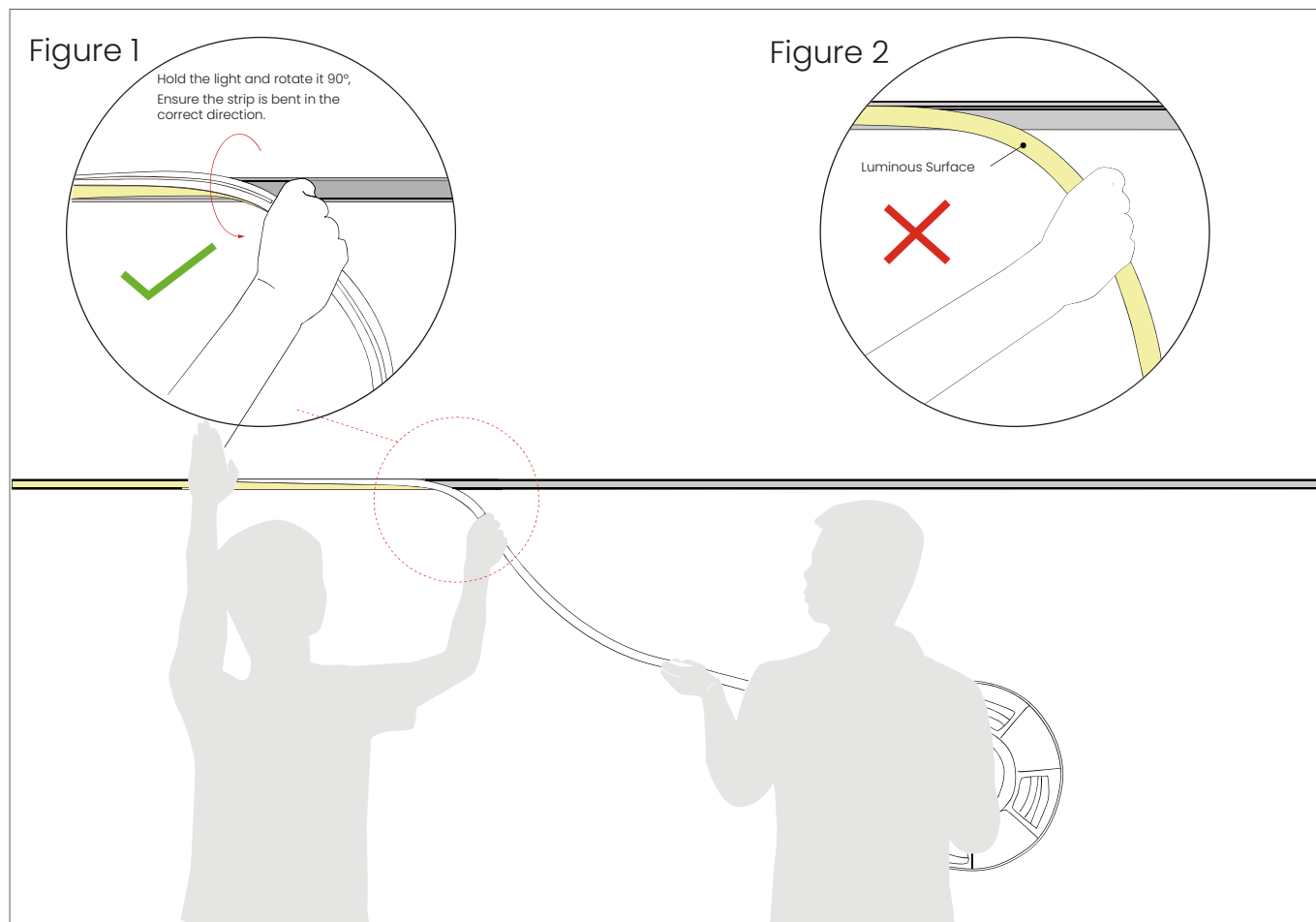


- Use your palm to slowly press the LED strip into the channel, then gently straighten it along the channel.
- Try to keep the led strip in a flat state during the installation process.



- 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.)



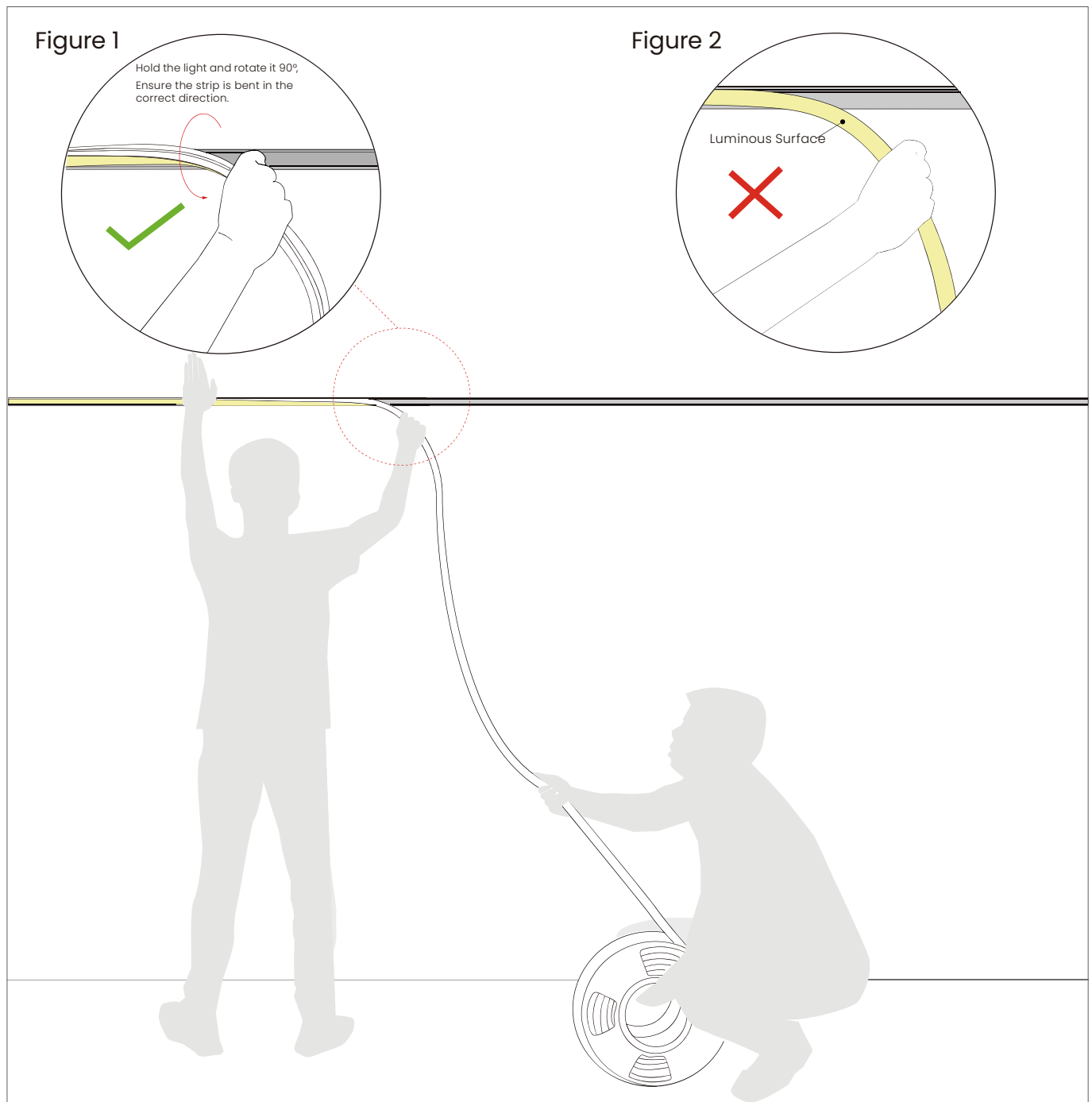
1. Installer:

- 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.)

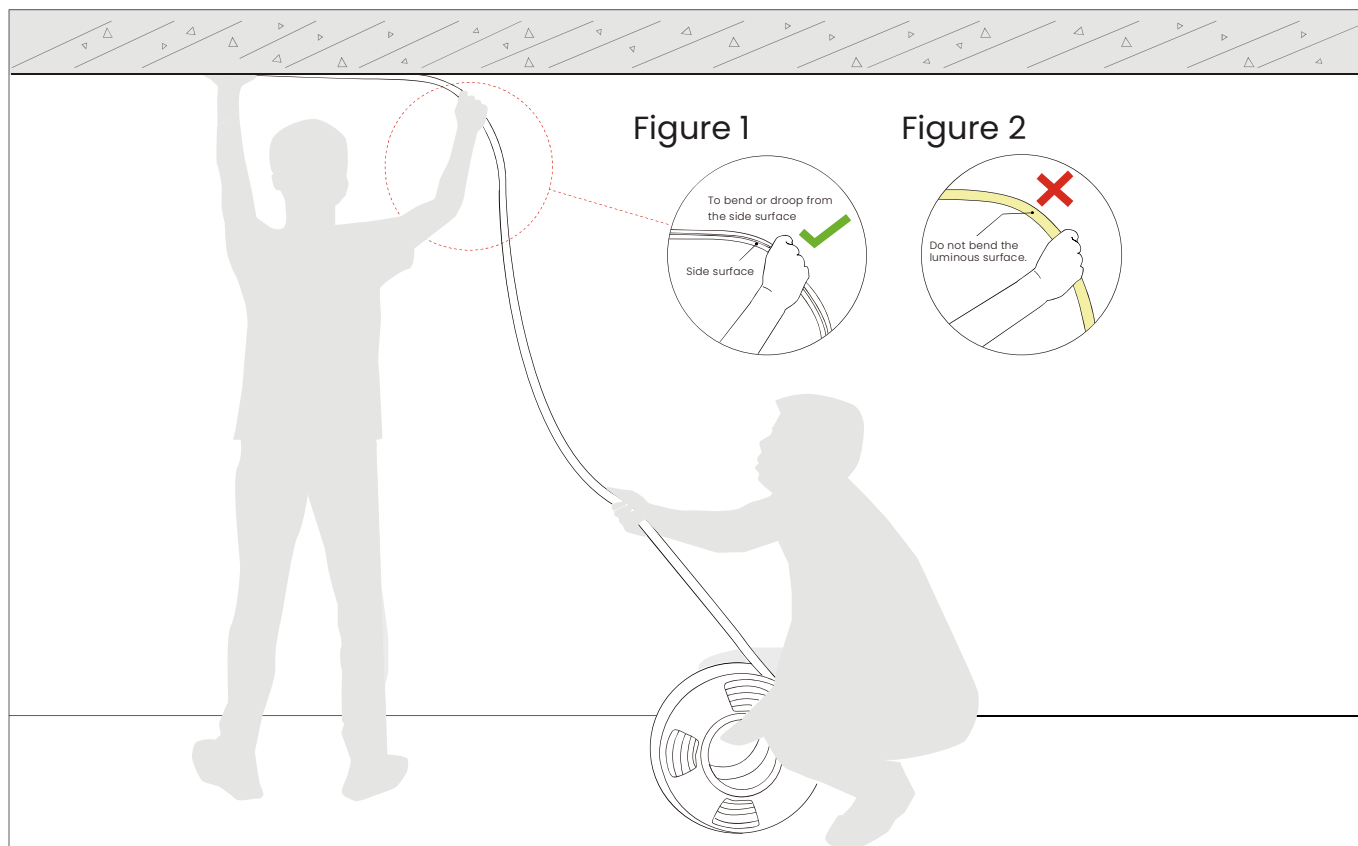


1. Installer:

- 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.

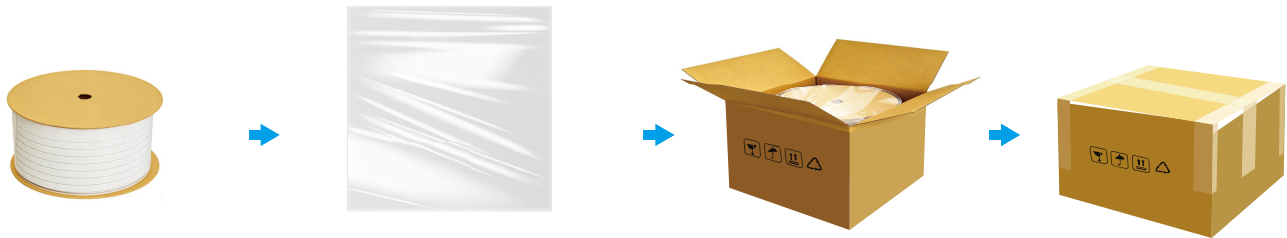
Installation Precautions--Top Mounted (If the length of the light is more than 2 meters, two people must work together to install it.)**1. Installer:**

- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with your right hand so that it droop naturally. See Figure 1.

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-T2020 24V IP67	5	4	45 x 45 x 31 cm	9.33kg/carton	10.33kg/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.