

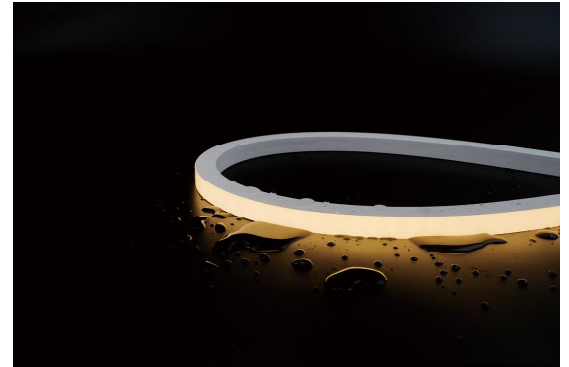
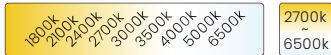
SPECIFICATION TOP BEND NEON

NS-T1617 24V IP67

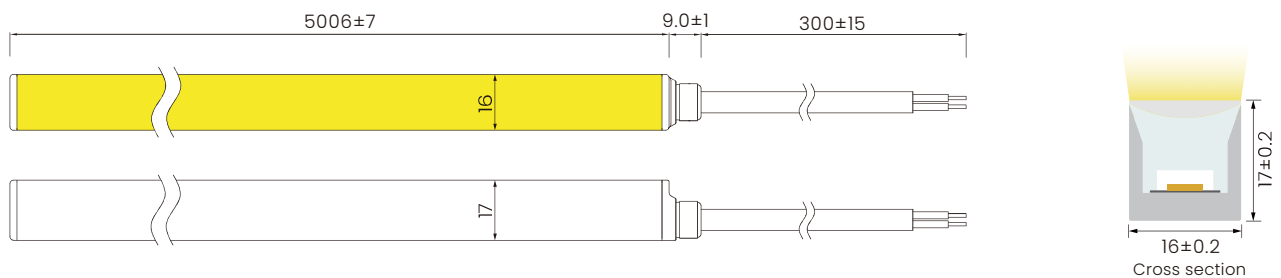


Features

- It is made of Dow Chemical SILASTIC™ ET-7021 silicone rubber, which provides high transparency and high strength.
- 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.
- 3-5 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

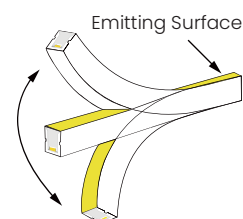
Power Ratings

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

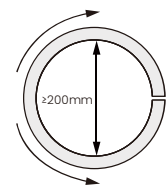
Due to production and component tolerances, light output and electrical power may vary by up to $\pm 10\%$.

Length Standard

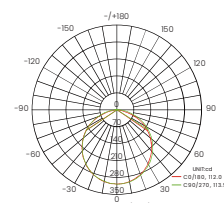
Length Range (M)	Final Length			Tolerance (mm)
	Integral end cap	Solder free end cap	Silicone end cap	
0M<Neon Strip(L)≤5M	L+6	L+32	L+5.5	±7
5M<Neon Strip(L)≤10M	L+6	L+32	L+5.5	±10
10M<Neon Strip(L)≤15M	L+6	L+32	L+5.5	±13
15M<Neon Strip(L)≤20M	L+6	L+32	L+5.5	±16
20M<Neon Strip(L)≤25M	L+6	L+32	L+5.5	±19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



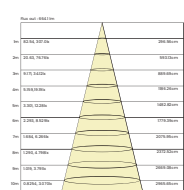
Vertical Bending



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(CV): Model NS-T1617V24-Cx-A

CCT(K)	SDCM	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
1800K±100	--	≥90	DC24V	5	307	61.3	50	9	CV
				10	600	60.0	50	7	CV
				15	864	57.6	50	5	CV
2100K±150	--	≥90	DC24V	5	348	69.5	50	9	CV
				10	665	66.5	50	7	CV
				15	977	65.1	50	5	CV
2400K±150	--	≥90	DC24V	5	379	75.8	50	9	CV
				10	739	73.9	50	7	CV
				15	1071	71.4	50	5	CV
2700K	≤3	≥90	DC24V	5	411	82.2	50	9	CV
				10	776	77.6	50	7	CV
				15	1148	76.5	50	5	CV
3000K	≤3	≥90	DC24V	5	423	84.5	50	9	CV
				10	797	79.7	50	7	CV
				15	1184	78.9	50	5	CV
3500K	≤3	≥90	DC24V	5	441	88.1	50	9	CV
				10	827	82.7	50	7	CV
				15	1236	82.4	50	5	CV
4000K	≤3	≥90	DC24V	5	448	89.6	50	9	CV
				10	825	82.5	50	7	CV
				15	1245	83.0	50	5	CV
5000K	≤4	≥90	DC24V	5	458	91.5	50	9	CV
				10	818	81.8	50	7	CV
				15	1287	85.8	50	5	CV
6500K	≤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

Single Color(CC): Model NS-T1617V24-CCx-A

CCT(K)	SDCM	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
1800K±100	--	≥90	DC24V	5	256	51.2	50	24	CC
				10	487	48.7	50	15	CC
				15	702	46.8	50	12	CC
2100K±150	--	≥90	DC24V	5	285	56.9	50	24	CC
				10	547	54.7	50	15	CC
				15	783	52.2	50	12	CC
2400K±150	--	≥90	DC24V	5	311	62.1	50	24	CC
				10	593	59.3	50	15	CC
				15	855	57.0	50	12	CC
2700K	≤3	≥90	DC24V	5	335	66.9	50	24	CC
				10	637	63.7	50	15	CC
				15	921	61.4	50	12	CC
3000K	≤3	≥90	DC24V	5	346	69.1	50	24	CC
				10	664	66.4	50	15	CC
				15	962	64.1	50	12	CC
3500K	≤3	≥90	DC24V	5	358	71.5	50	24	CC
				10	690	69.0	50	15	CC
				15	999	66.6	50	12	CC
4000K	≤3	≥90	DC24V	5	360	71.9	50	24	CC
				10	699	69.9	50	15	CC
				15	1020	68.0	50	12	CC
5000K	≤4	≥90	DC24V	5	367	73.3	50	24	CC
				10	715	71.5	50	15	CC
				15	1046	69.7	50	12	CC
6500K	≤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
				--	--	--	--	--	--
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

Tunable White: Model NS-T1617V24-Ca-A

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	10	780	78.0	71.4	5	CV
6500K±500	≥90	DC24V	10	830	83.0	71.4	5	CV
2700K+6500K	≥90	DC24V	11	924	84.0	71.4	5	CV

RGB: Model NS-T1617V24-Crgb-A

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	3.3	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: Model NS-T1617V24-Crgbwx-A

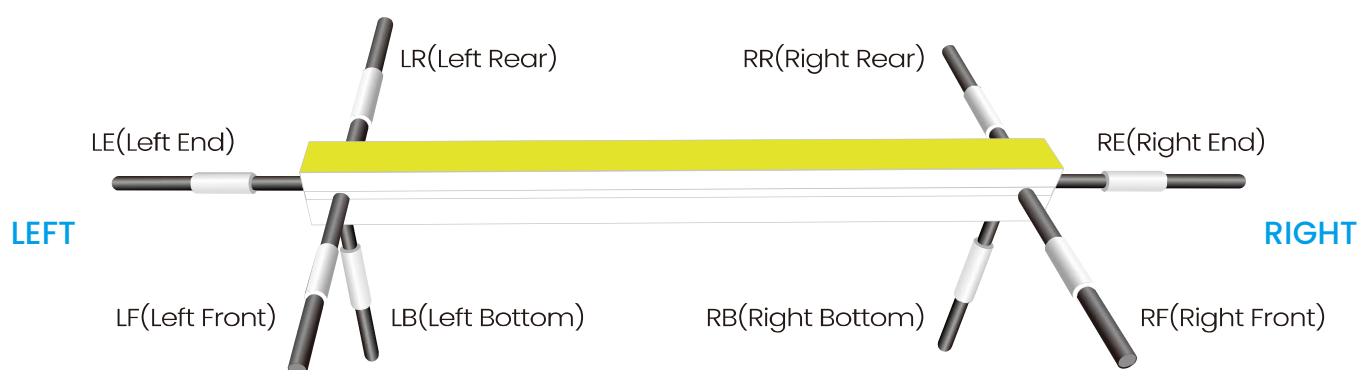
CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (lm/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R	--	DC24V	3.7	83	22.0	83.3	5	CV
G	--	DC24V	3.7	306	81.6	83.3	5	CV
B	--	DC24V	3.7	54	14.4	83.3	5	CV
W: 2700±150	≥90	DC24V	3.7	261	69.6	83.3	5	CV
RGBW	--	DC24V	15	735	49.0	83.3	5	CV
R	--	DC24V	3.7	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
W: 3000±150	≥90	DC24V	3.7	270	72.1	83.3	5	CV
RGBW	--	DC24V	15	749	49.9	83.3	5	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
W: 4000 ⁺⁴⁰⁰ ₋₂₀₀	≥90	DC24V	3.7	281	74.9	83.3	5	CV
RGBW	--	DC24V	15	759	50.6	83.3	5	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
W: 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: Model NS-T1617V24-Crgbwx-UCS512CL-8P-A

CCT(K)	CRI	Voltage	Power(W)	Luminous Flux (lm/m)	Efficacy (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

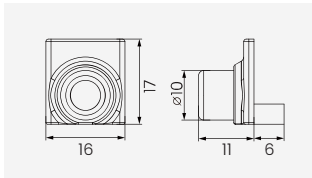
- Maximum run length refers to the maximum length powered from one end using the standard 30 cm cable.
- The specified color temperature refers to the finished product.
- The values shown are typical. Due to production and component tolerances, light output and electrical power may vary by up to ±10%.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

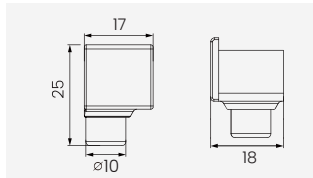


Cable Entry and End Cap Options (Unit: mm)

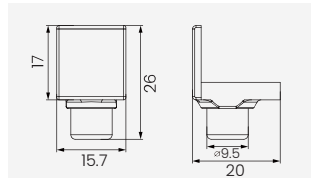
Integral End Cap (IP67)



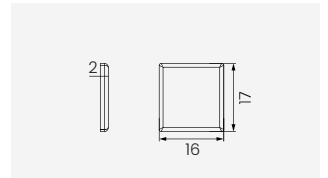
Front Cable Entry



Side Cable Entry

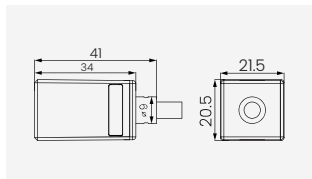
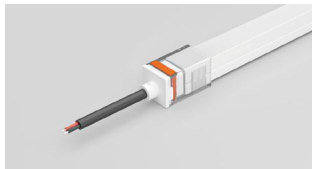


Bottom Cable Entry

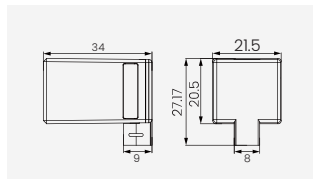
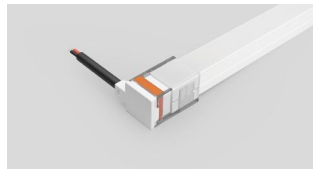


Closed End cap

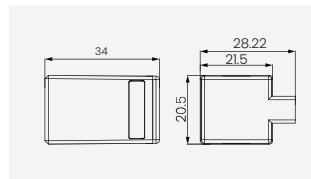
Solder Free End Cap without screws (IP67)



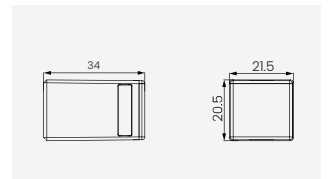
Front Cable Entry



Side Cable Entry

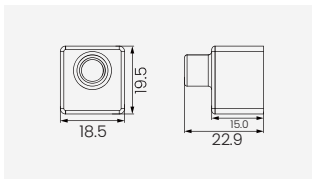


Bottom Cable Entry

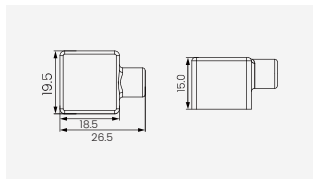


Closed End cap

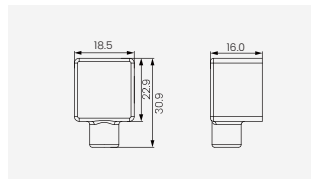
Silicone end cap (IP67)



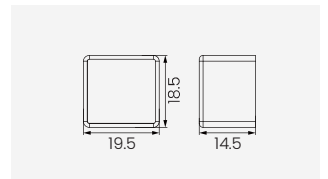
Front Cable Entry



Side Cable Entry



Bottom Cable Entry



Closed End cap

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
Silicone Cable		OD: 6.0 mm / Conductor: 20 AWG	● ●	Red V+ / Black V-
		OD: 6.0 mm / Conductor: 20 AWG	● ○ ●	Black V+ / White W / Yellow WW
		OD: 6.0 mm / Conductor: 20 AWG	● ● ● ●	Black V+ / Blue B / Green G / Red R
		OD: 6.4 mm / Conductor: Red/Black--20 AWG Green/Blue/White--22 AWG	● ○ ● ● ●	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: 6.4 mm / Conductor: Red/Black--20 AWG Green/Blue/White--22 AWG M12 Male / Female connector	● ○ ● ● ●	Black V+ / White W / Blue B / Green G / Red R
		OD: 6.4 mm / Conductor: Red/Black--20 AWG Green/Blue/White--22 AWG M12 Male / Female connector	● ○ ● ● ●	DMX512: Black V-, White BI / BO, Blue AI / AO, Green PI / PO, Red V+

Cable Maximum Load Capacity

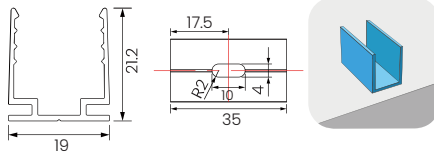
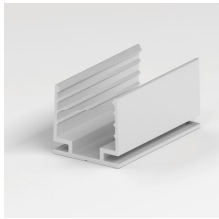
a. For assembled end caps with single-ended power supply, the maximum load is shown below.

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.

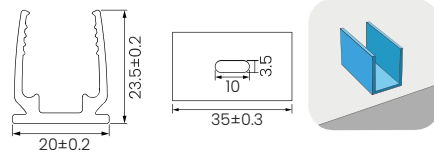
Installation Accessories

Aluminum Mounting clips : 1921 A



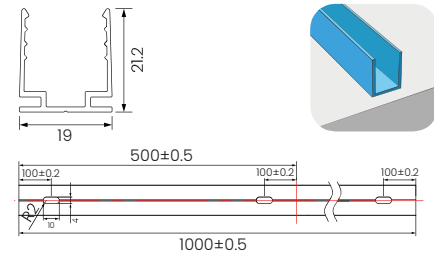
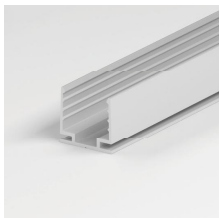
Name	Aluminum Mounting clips : 1921 A
Dimension:	35X19X21.2mm
Accessories:	Screw M3X16(SUS304)

PC Clip : 2024 PC



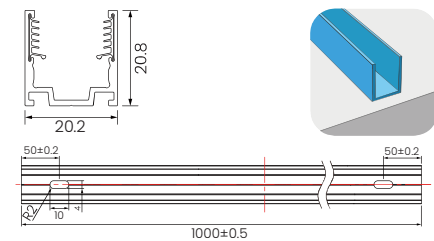
Name	PC Clip : 2024 PC
Dimension:	35X20X23.5mm
Accessories:	Screw M3X16(SUS304)

Aluminum Profile : 1921 A



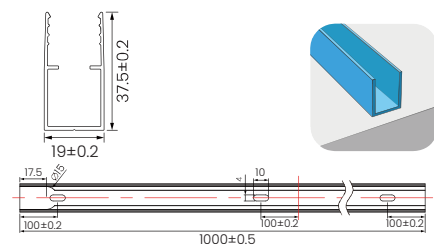
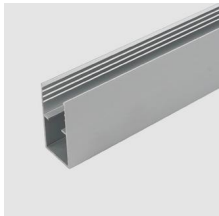
Name	Aluminum Profile : 1921 A
Dimension:	1000(±0.5)X19X21.2mm
Accessories:	Screw M3X16(SUS304)

Internal Gear Profile : 2021 B



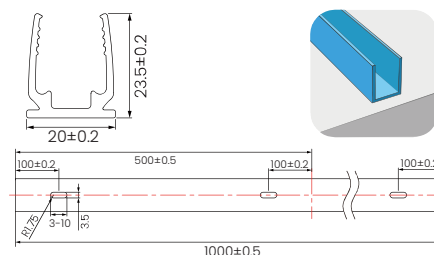
Name	Internal Gear Profile : 2021 B
Dimension:	1000(±0.5)X20.2X20.8mm
Accessories:	Screw M3X16(SUS304)

Aluminum Profile : 1937 A



Name	Aluminum Profile : 1937 A
Dimension:	1000(±0.5)X19X37.5mm
Accessories:	Screw M3X16(SUS304)

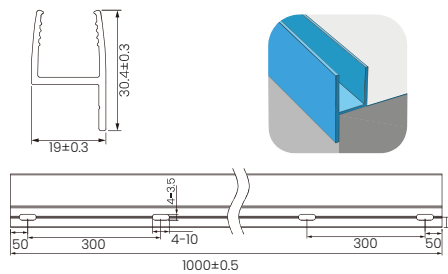
PC Profile : 2024 PC



Name	PC Profile : 2024 PC
Dimension:	1000(±0.5)X20X23.5mm
Accessories:	Screw M3X16(SUS304)

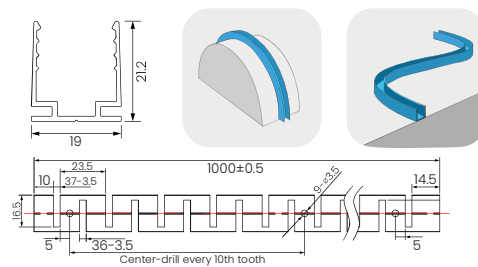
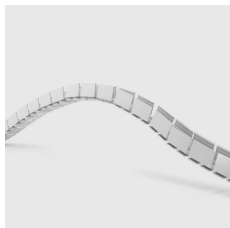
Installation Accessories

PC Profile : 1931 PC



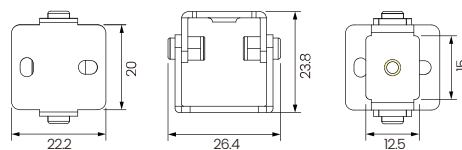
Name	PC Profile : 1931 PC
Dimension:	$1000(\pm 0.5) \times 19 \times 30.4$ mm
Accessories:	Screw M3X16 (SUS304)

Curved profile : 1921 A



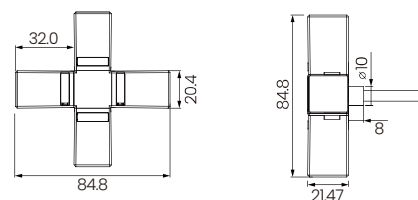
Name	Curved profile : 1921 A
Dimension:	$1000(\pm 0.5) \times 19 \times 21.2$ mm
Accessories:	Screw M3X16 (SUS304)

Adjustable Angle Clip
(use with aluminum clips or profile)



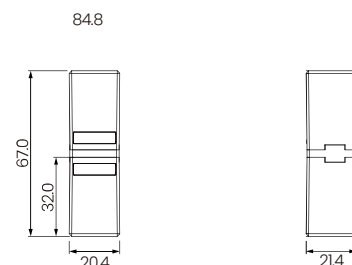
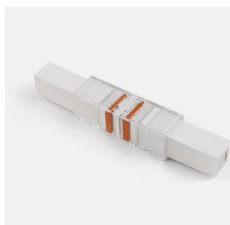
Dimension:	22.2x26.4x23.8 mm
Accessories:	M3 x 25 mm screw (SUS304) M3.5 x 8 mm screw (SUS304)

IP67 Cross Connector



Name	IP67 Cross Connector
To connect 4pcs of neon after you cut it	

IP67 Connector



Name	IP67 Connector
To connect 2pcs of neon after you cut it	

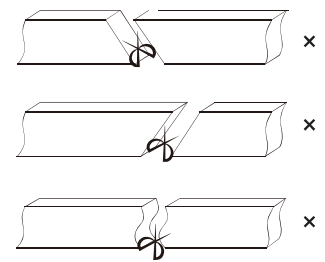
Cutting Mark



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



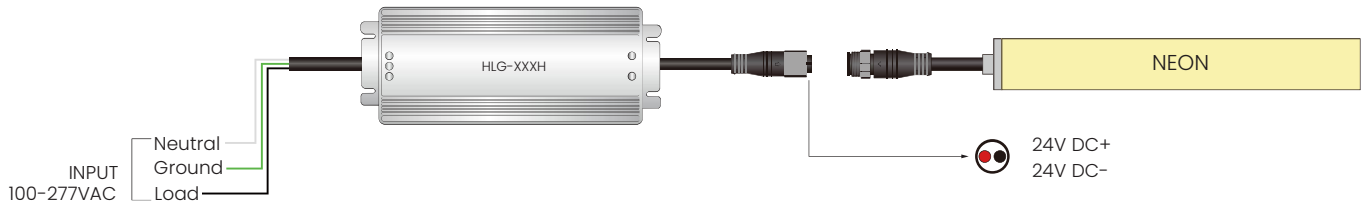
Use a professional cutting tool to cut vertically at the cutting mark.



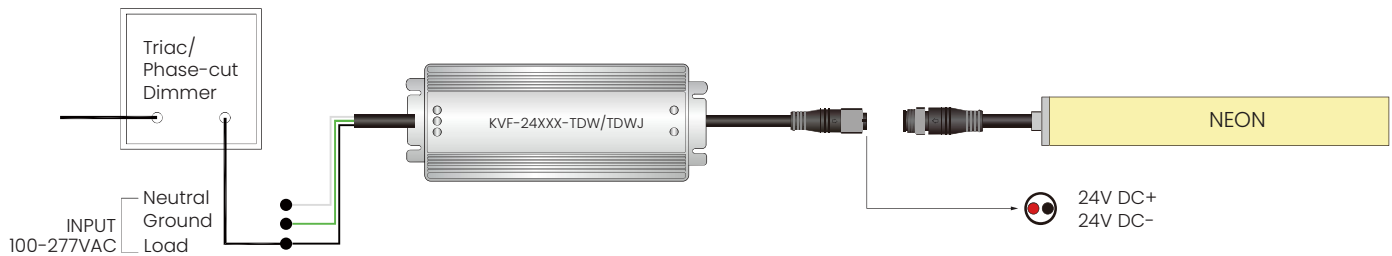
Do not cut at an oblique angle or along a curved section.

Single Color Connection Diagram

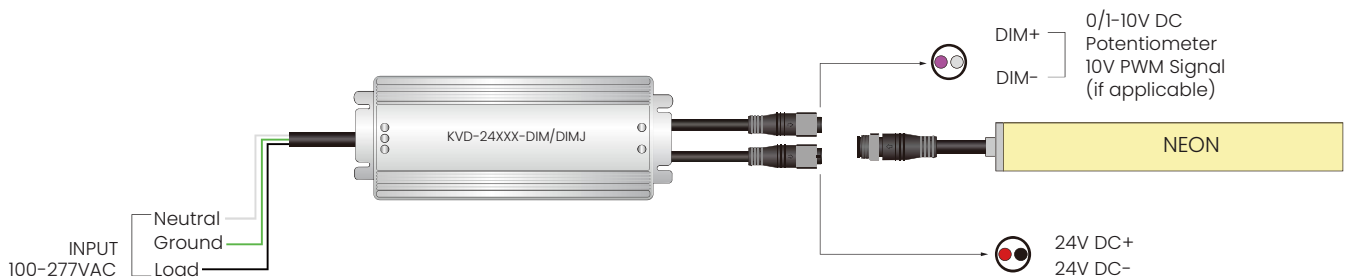
Non-dimmable



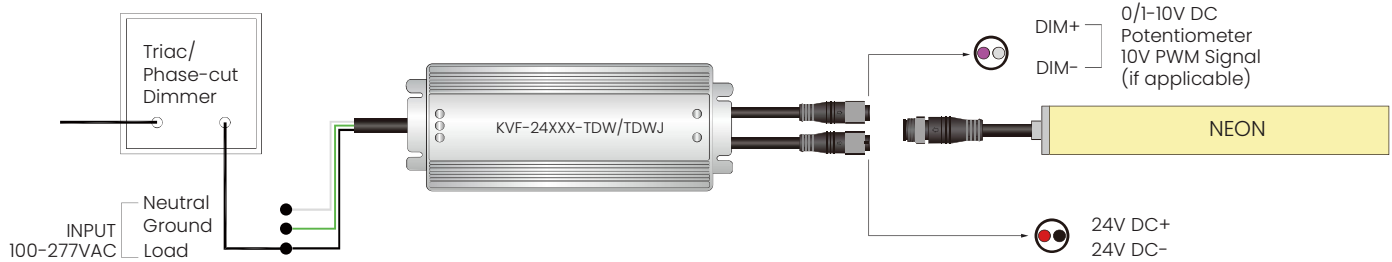
Phase-Cut / TRIAC Dimming



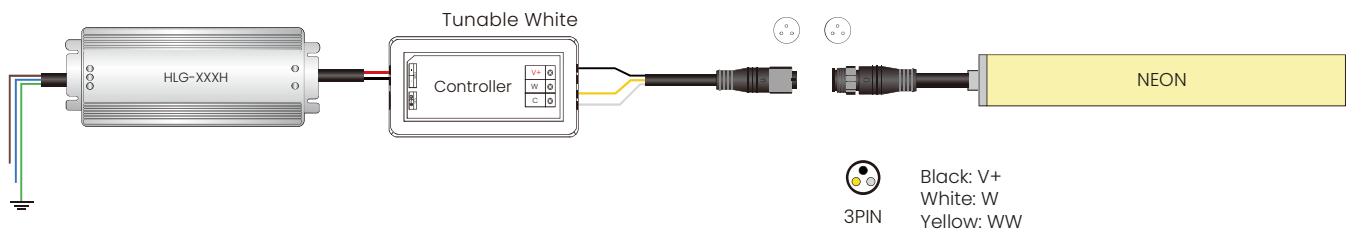
4-in-1 Dimming(0-10V/1-10V/Potentiometer/10V PWM)



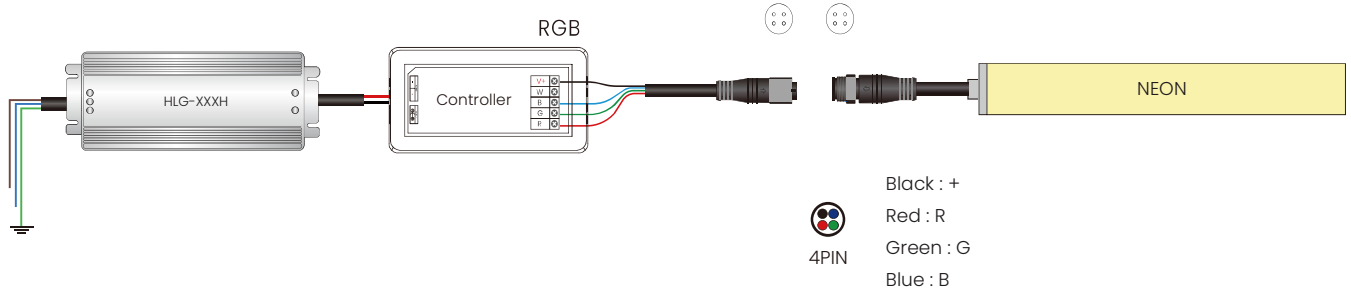
5-in-1 Dimming (Triac/0-10V/1-10V/Potentiometer/10V PWM)



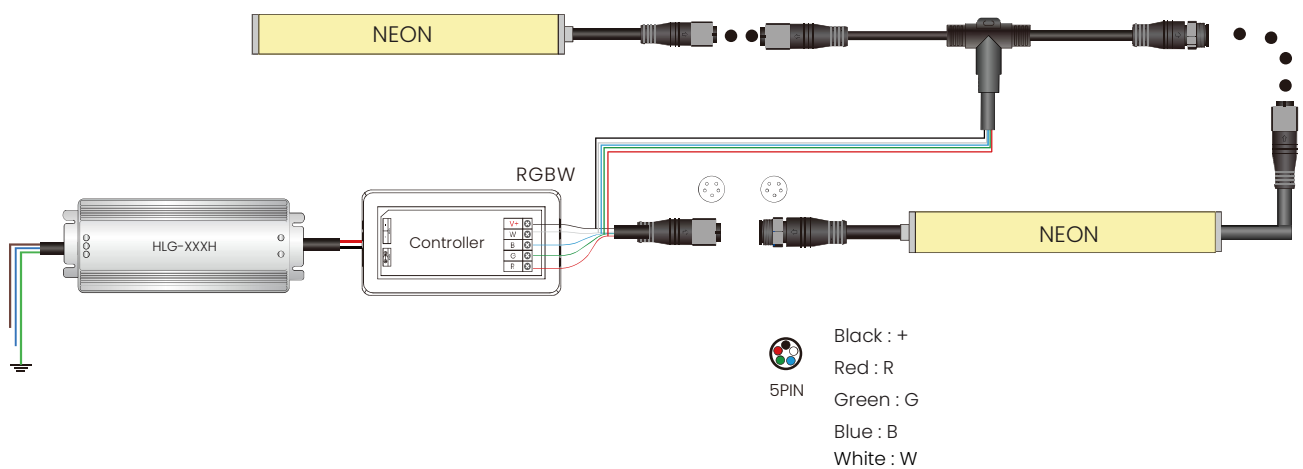
Tunable White Connection Diagram



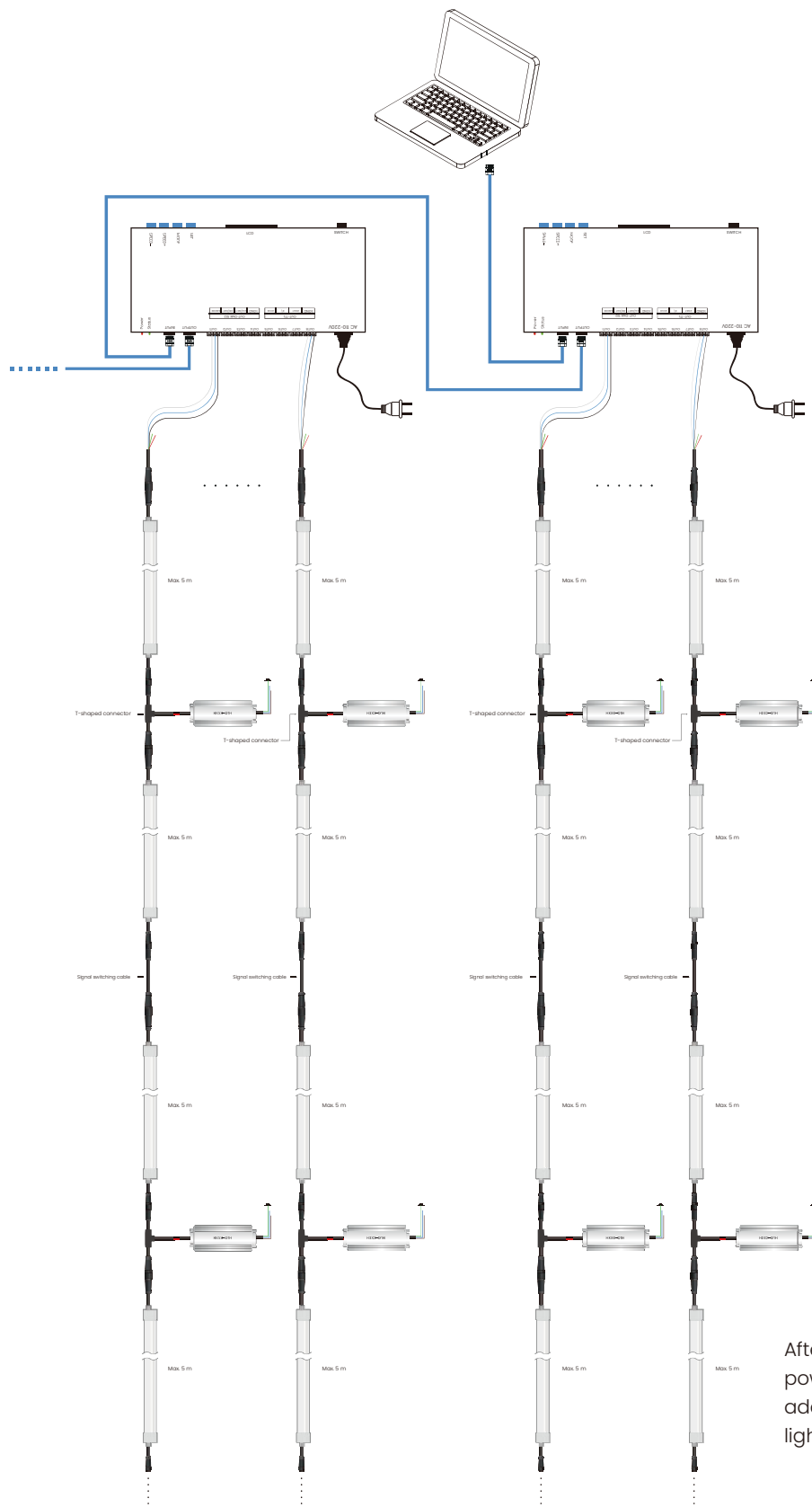
RGB Connection Diagram



RGBW Connection Diagram



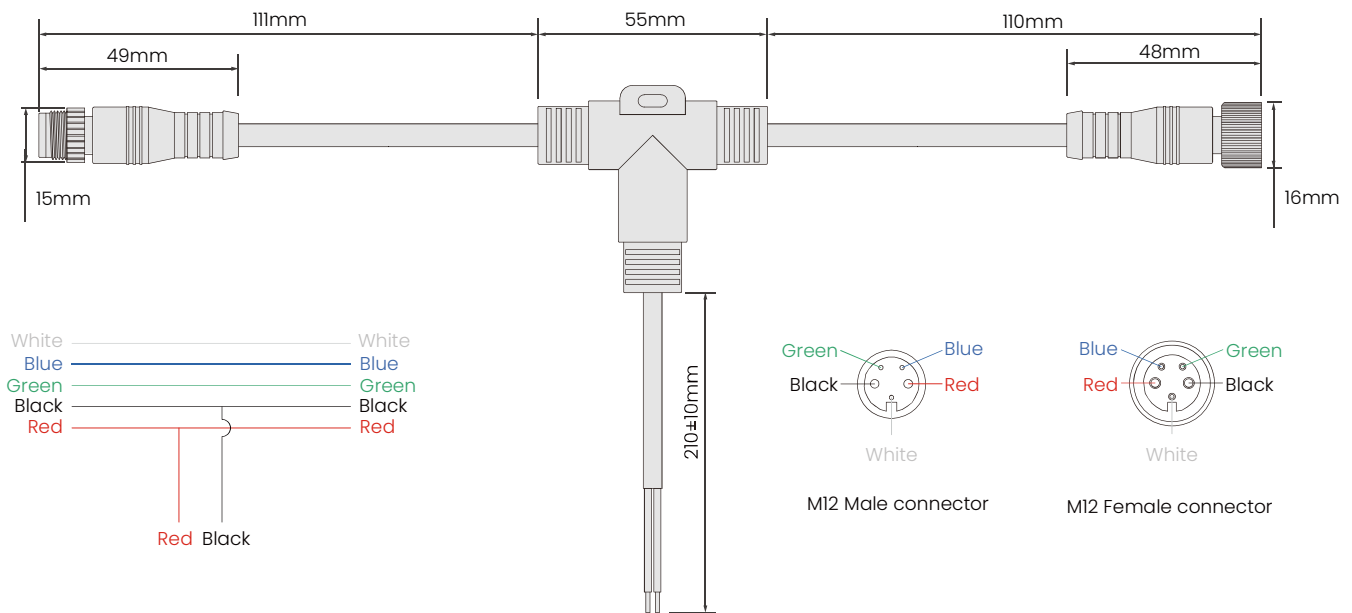
DMX512 Connection Diagram



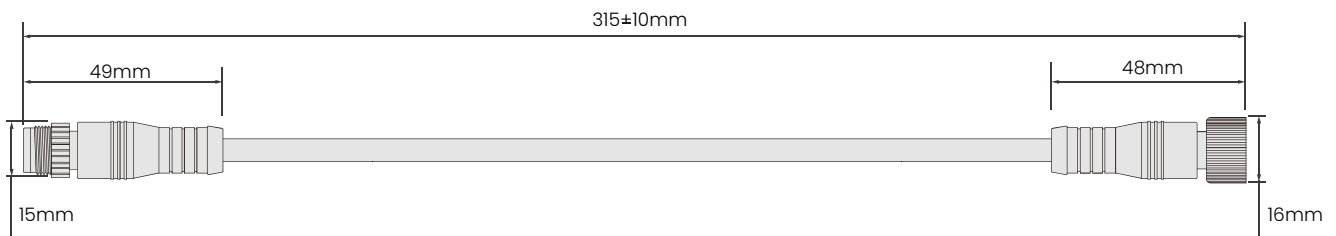
After the LED strip is connected to the signal and power wires, use a controller or address encoder to address the strip. The controller can then run the lighting effects.

DMX512 Accessories

T-type 5 pin connector



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

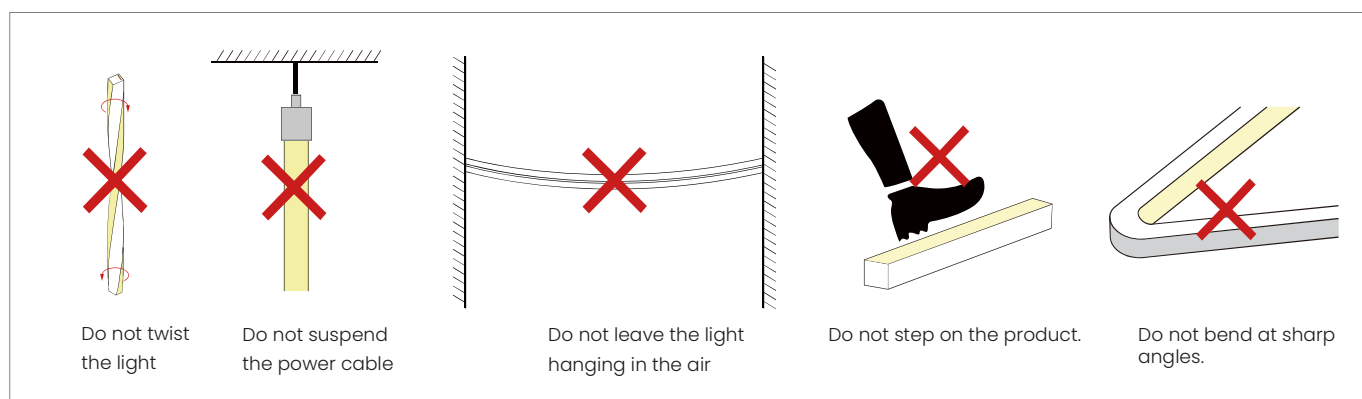
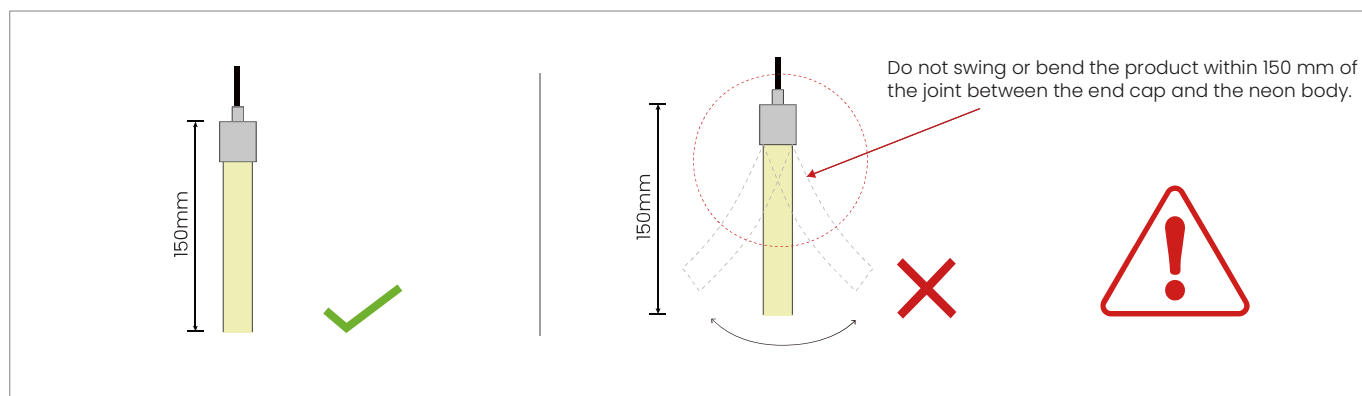


Signal-Switching Cable

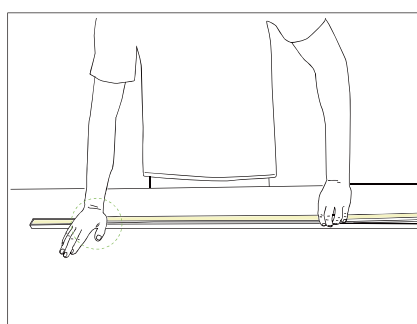


Function: Keeps the signal cable connected in series and disconnects the positive terminal to prevent two power supplies from being connected in parallel.

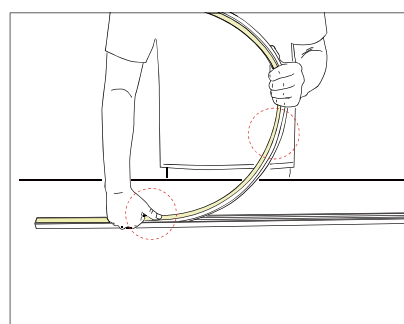
Installation Precautions



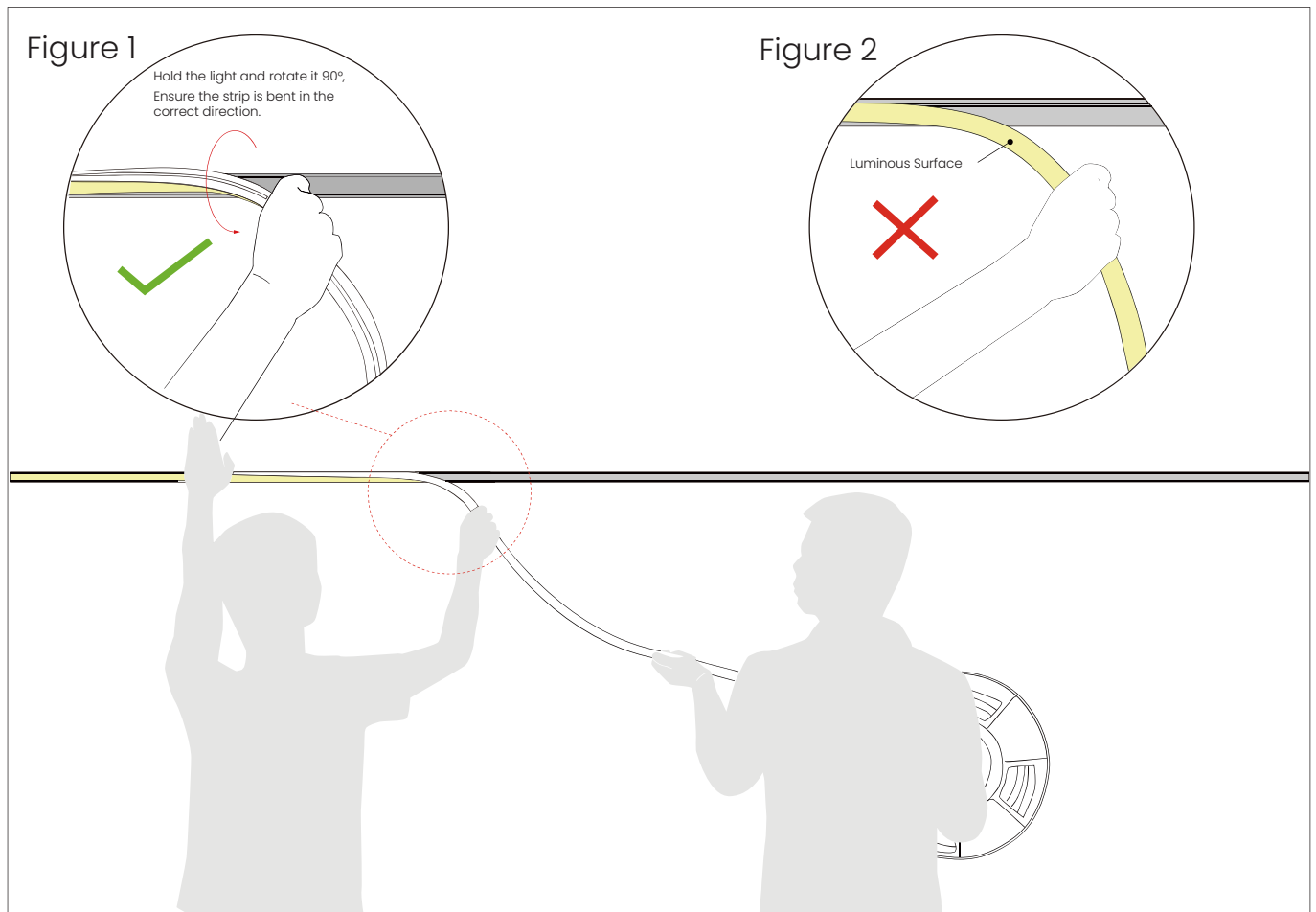
Insert into the Profile



- 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.



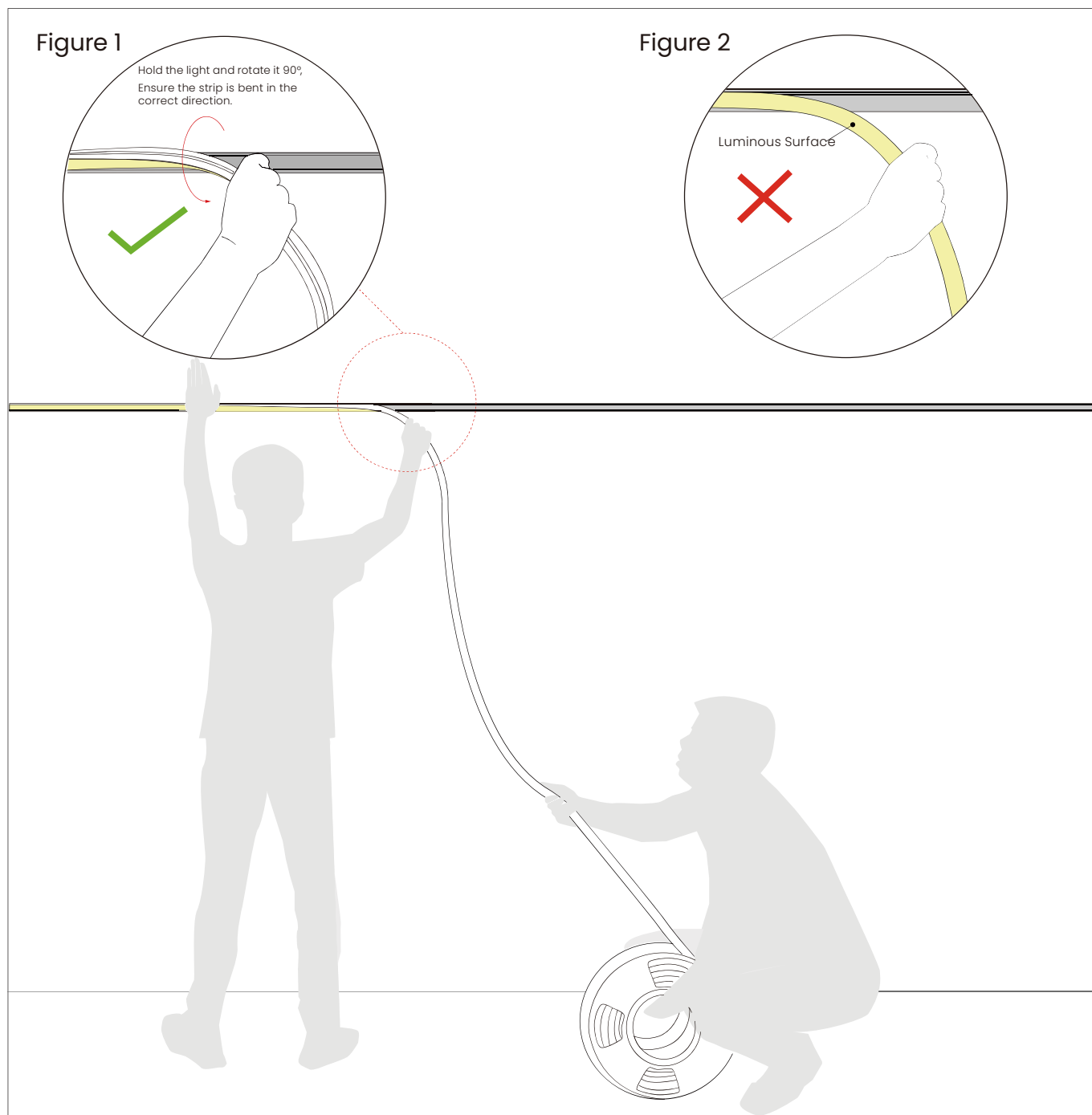
- Do not press the LED strip with one finger; this may damage internal components.
- The bent arc of the LED strip should not be too large during installation.

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:

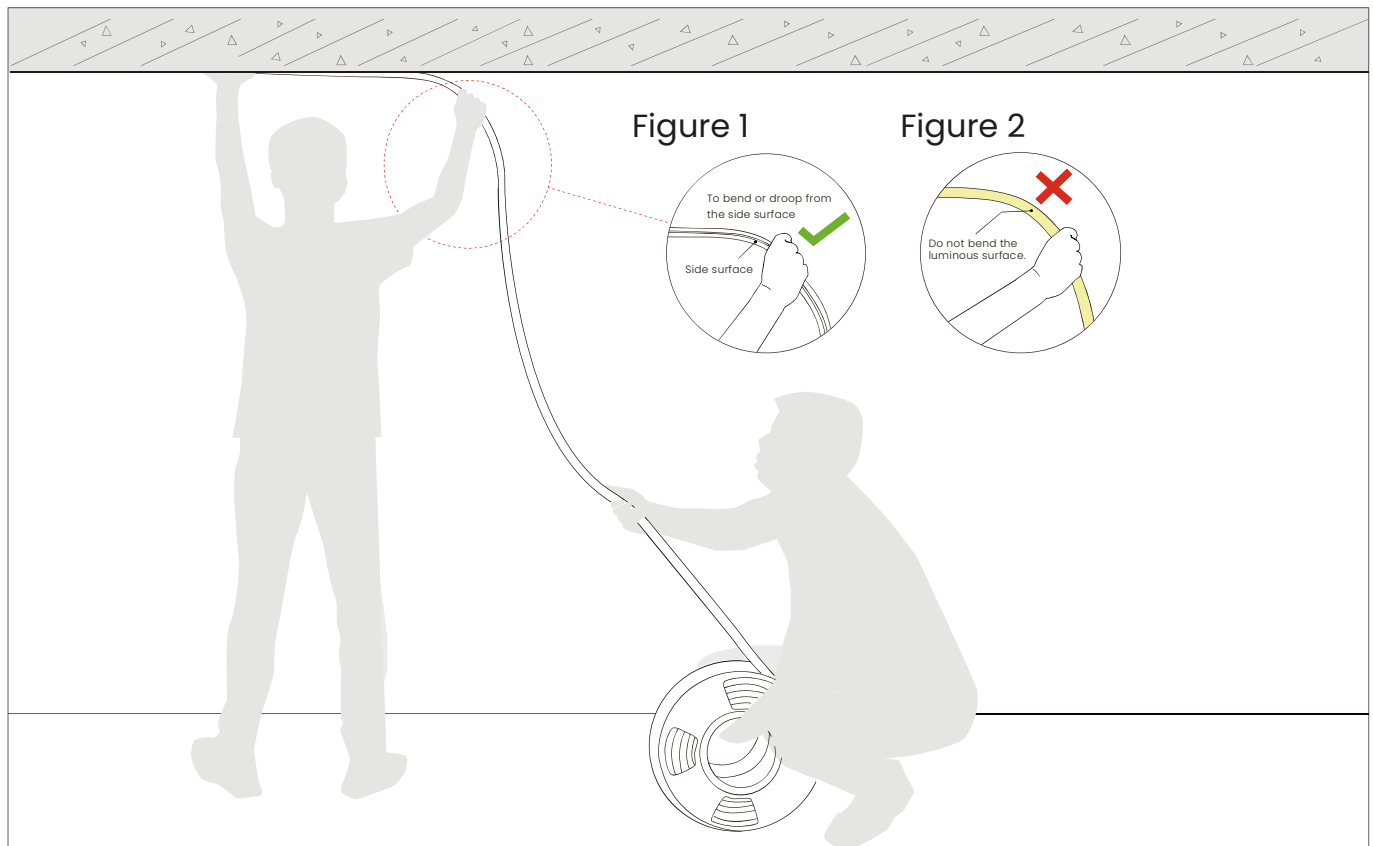
- Cooperate with the installer to lift the reel of the light, and then slowly feed the strip to the installer. Do not pull or twist the light during the installation.

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.

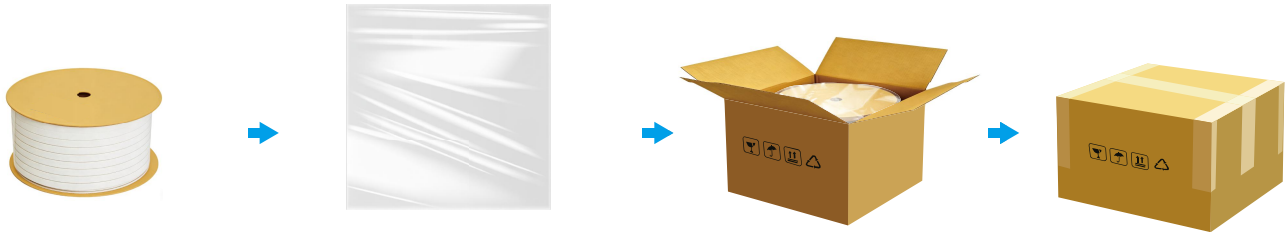
Installation Precautions – Top Mounted (If the length of the light is more than 2 meters, two people must work together to install it.)**1. Installer:**

- 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 droops naturally. See Figure 1.

2. Assistant:

- Cooperate with the installer to slowly deliver the light to the installer. Do not pull or twist the light 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-T1617 24V IP67	5	10	45 X 45 X 24 cm	18.21 kg/carton	19.21 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.