DURABLE
LIGHTING

Specification

LED Neon Flex Series

1616C (Side Bend)

C E53354 US | DC24V | 1 BIN | LM 79/80 | 120° | 90+ CRI | 3 WARRANTY YEARS

DURABLE LIGHTING

Single CCT/ Color

| 2700K | 3000K | 4000K | 6000K | Red | Green | Blue | Yellow | RGB | CCT | RGBW |
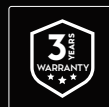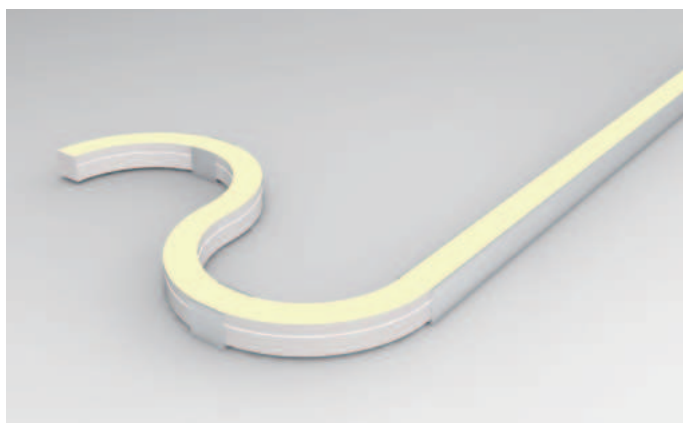
DMX512

DMX512 - white

DMX512 - Dual White

DMX512 - RGB

DMX512 - RGBW

⚠ Dimensions

Unit: mm

• LED Neon Flex

5000

16

16

150

15

47

16

16

• Aluminum Profile

1000

15.5

17.5

17.1

18.9

Side Bend

luminous surface
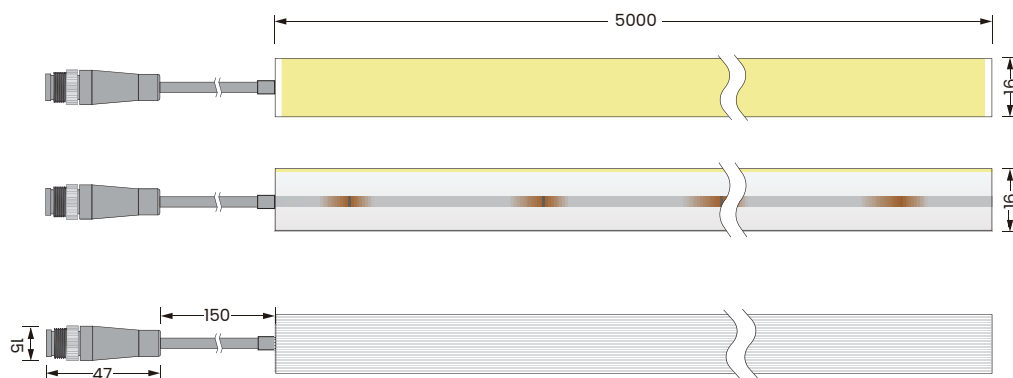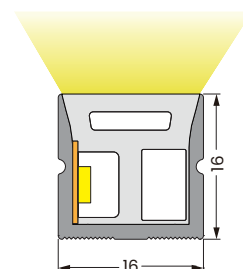
luminous surface
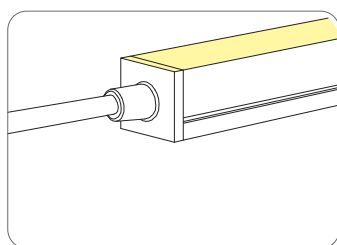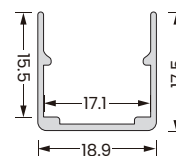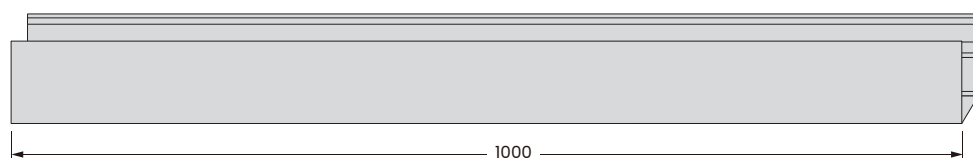
Straight Cable Exit
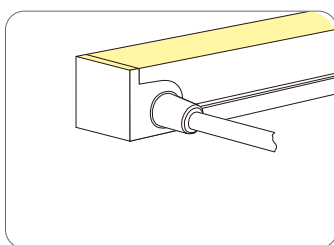
Side Cable Exit

Bottom Cable Exit

Features

Soft & Flexible

Excellent flexibility, high light transmittance, easy to bend, easy to shape, high tensile strength.
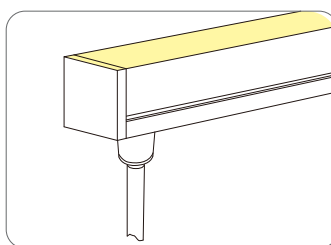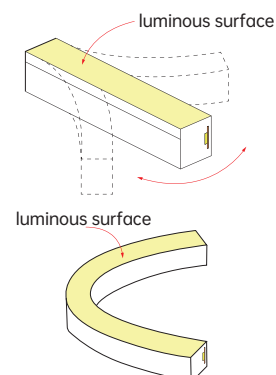
Enhanced Protection, Waterproof, and Flame-Resistant

Salt-resistant, acid and alkali resistant, flame-retardant, and UV-resistant, suitable for use in extremely harsh environments.

Waterproof Connectors

Effortless connection, faster installation, and more convenience.

Visible Cutting Guide Window

Allows for easy cutting and flexible installation.

Integrated End Cap

Ensures a perfect fit within the aluminum profile, allowing seamless connections between neon strips.
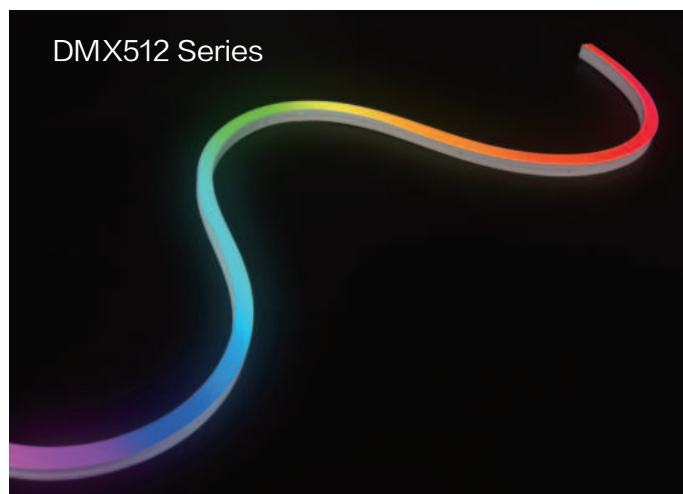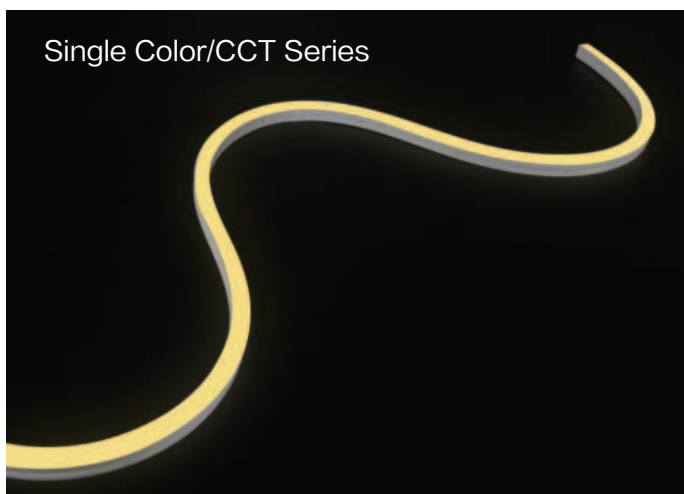
Regular silicone end cap

Pull-Resistant Ring

Prevents breakage and reduces pull stress, providing better protection.

c UL us E53354   CE   RoHS   ErP 2015   FLAME RESISTANT   SOLVENT RESISANT

🔆 Parameters

Single Color/CCT Series

DMX512 Series

Single Color/CCT Series

Voltage	Control	Color/CCT	LED Type	Pixel	LEDs/M	FPCB	Power	Luminous Flux	Efficiency	CRI	IP	Min. Cutting	Warranty
DC24V	CV	● 3000K	2835	/	120 leds/M	10 mm	12 W/M	540 lm/M	45 lm/W	≥ Ra90	IP65	50mm/6leds	3 years
DC24V	CV	● 4000K	2835	/	120 leds/M	10 mm	12 W/M	600 lm/M	50 lm/W	≥ Ra90	IP65	50mm/6leds	3 years
DC24V	CV	● 5000K	2835	/	120 leds/M	10 mm	12 W/M	600 lm/M	50 lm/W	≥ Ra90	IP65	50mm/6leds	3 years
DC24V	CV	● Red	2835	/	120 leds/M	10 mm	12 W/M	60 lm/M	5 lm/W	/	IP65	50mm/6leds	3 years
DC24V	CV	● Green	2835	/	120 leds/M	10 mm	12 W/M	240 lm/M	20 lm/W	/	IP65	50mm/6leds	3 years
DC24V	CV	● Blue	2835	/	120 leds/M	10 mm	12 W/M	60 lm/M	5 lm/W	/	IP65	50mm/6leds	3 years

DMX512 Series

| Voltage	Control	Color/CCT	LED Type	Pixel	LEDs/M	FPCB	Power	Luminous Flux	Efficiency	CRI	IP	Min. Cutting	Warranty
DC24V	DMX512		2835	8	120 leds/M	10 mm	12 W/M	360 lm/M	30 lm/W	≥ Ra90	IP65	125mm/15leds	3 years
DC24V	DMX512		2835	10	120 leds/M	10 mm	12 W/M	360 lm/M	30 lm/W	≥ Ra90	IP65	100mm/12leds	3 years
DC24V	DMX512		5050RGB	6	84 leds/M	12 mm	12 W/M	216 lm/M	18 lm/W	/	IP65	166mm/14leds	3 years
DC24V	DMX512		5050RGB	8	80 leds/M	12 mm	12 W/M	180 lm/M	15 lm/W	/	IP65	125mm/10leds	3 years
DC24V	DMX512		5050RGBW	6	84 leds/M	12 mm	15 W/M	270 lm/M	18 lm/W	/	IP65	166mm/14leds	3 years
DC24V	DMX512		5050RGBW	8	80 leds/M	12 mm	15 W/M	225 lm/M	15 lm/W	/	IP65	125mm/10leds	3 years

Note:
The above parameters are based on a 1-meter standard product.
Power and luminous flux allow a tolerance range of ±10%.
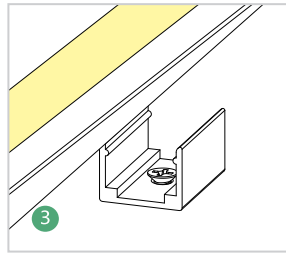The above parameters are the usual values.

🔧 Mounting

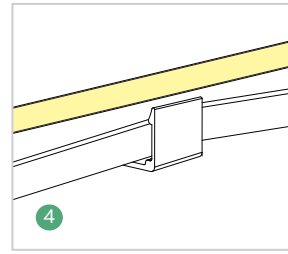## 1). Aluminum clips (Optional)
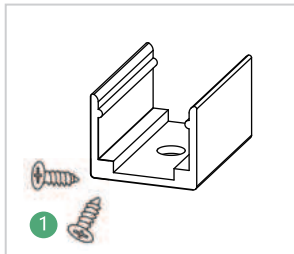
Prepare the screws and clips.
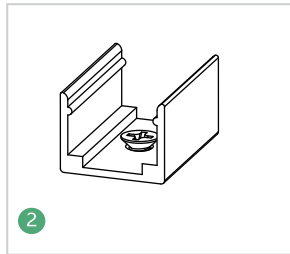
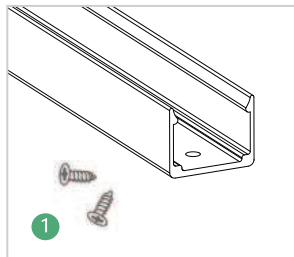Adjust the clips to the desired position, use a screwdriver to tighten the screws.

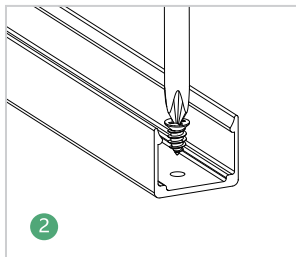With the luminous surface facing up, firmly insert the product into the clips.
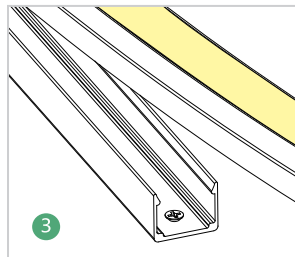
Installation finished.

2). Aluminum profile (Optional)

Prepare the screws and aluminum profiles.

Adjust the aluminum profiles to the desired position, use a screwdriver to tighten the screws.

With the luminous surface facing up, fit the product into the aluminum profiles. Finished.

3). Stainless steel flexible mounting profile (Optional)
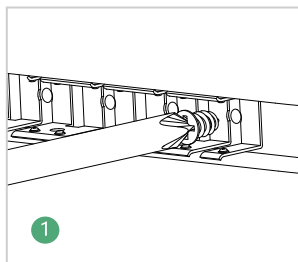
Fix the stainless steel flexible mounting profile into the pre-cut groove, use a screwdriver to tighten the screws.
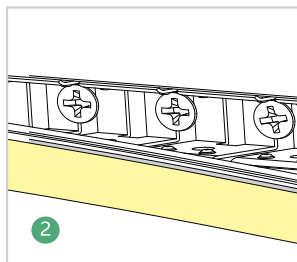
Embed the strip light into the groove, with the luminous surface facing outward.

Installation finished.

⊗ Wrong

luminous surface

luminous surface

luminous surface

✕   ✕   ✕

⊞ Wiring Diagram

1.Single Color/CCT

AC : 220V
DC : 24V

V+ V- ⏚ L N

AC220V

DC : 24V

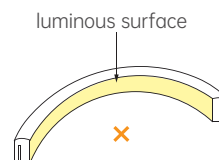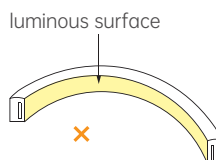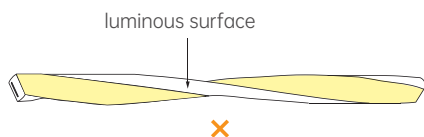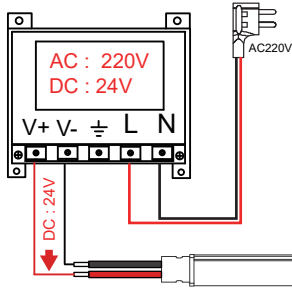**Note:** Direct connection to high-voltage power is prohibited, as it can damage or burn out the strip light. It is mandatory to use a designated power supply to convert the 220V AC high voltage to a low voltage DC compatible with the strip light to ensure proper functionality.

Note: When selecting LED power supplies, it is important to consider a buffer of 30% above the rated capacity (recommended not to use more than 70% of the power supply's capacity). This ensures that the product is provided with sufficient power to achieve the desired effect.

2.Dual White

+V
W
C

Dual Color Controller

White Wire -C
Yellow Wire -W
Red Wire -V+

AC : 220V
DC : 24V

V+ V- ⏚ L N

V+
V-

AC220V

DC : 24V

Note: Direct connection to high-voltage power is prohibited, as it can damage or burn out the strip light. It is mandatory to use a designated power supply to convert the 220V AC high voltage to a low voltage DC compatible with the strip light to ensure proper functionality.

Note: When selecting LED power supplies, it is important to consider a buffer of 30% above the rated capacity (recommended not to use more than 70% of the power supply's capacity). This ensures that the product is provided with sufficient power to achieve the desired effect.

3.RGB

+V
R
G
B

Mode   Speed -   Speed +

RGB Controller

Red Wire -"R"
Green Wire -"G"
Blue Wire -"B"
Black Wire -"+"

AC : 220V
DC : 24V

V+ V- ⏚ L N

V+
V-

AC220V

DC : 24V
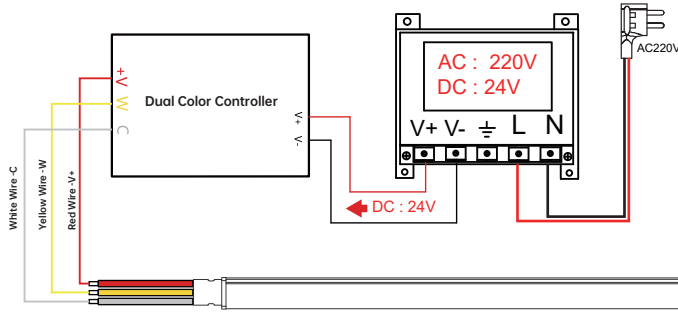
Note: Direct connection to high-voltage power is prohibited, as it can damage or burn out the strip light. It is mandatory to use a designated power supply to convert the 220V AC high voltage to a low voltage DC compatible with the strip light to ensure proper functionality.

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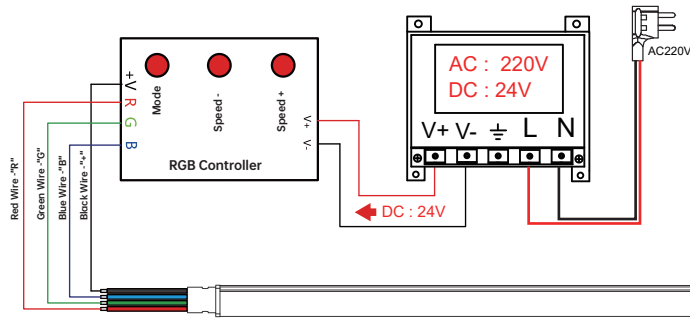
4.DMX512

CHIP   MODE   SPEED

K-1000C

CHIP   MODE   SPEED-   SPEED

SD CARD

Red Wire - (+24V)
Black Wire - (GND)
Blue Wire - (B)
Green Wire - (A)
White Wire - (PI)

AC : 220V
DC : 24V

V+ V- ⏚ L N

AC220V

DC24V

Note: Direct connection to high-voltage power is prohibited, as it can damage or burn out the strip light. It is mandatory to use a designated power supply to convert the 220V AC high voltage to a low voltage DC compatible with the strip light to ensure proper functionality.

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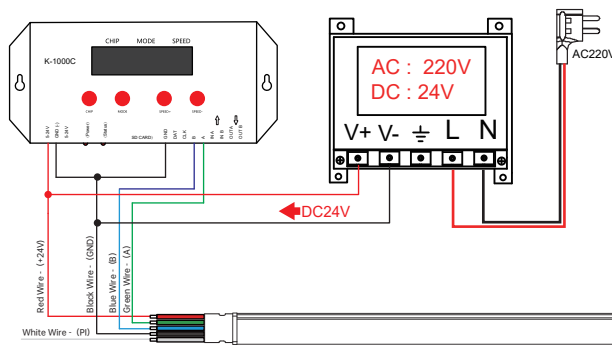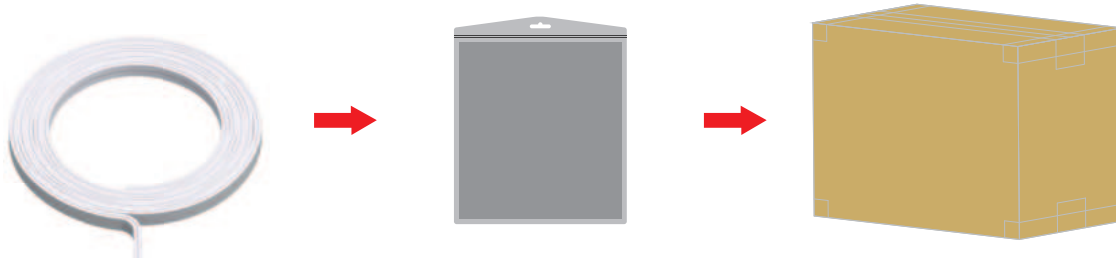
⚞ Packaging

⚠ Attention

1. It is strictly forbidden to twist the strip or handle it inappropriately (in any other way than included in this manual) during installation. Additionally, improper handling or installation will result in a product defect or health hazard.

2. After opening the packaging, carefully test the product by lighting it up before installation. Do not install products that have been damaged during transport.

3. Installation:
(1) Single ended cable product:
   During installation, two people should work together (or use a stable object to support the remaining part of the strip light). Begin by embedding and securing the cable ended part. One person is responsible for embedding, while the other holds the strip light. This not only makes the installation easier but also preventsfrom damaging the strip.
(2) Double ended cable product:
   During installation, two people should work together (or use a stable object to support the uninstalled part of the strip light). Begin by embedding and securing from one of the cable exit ends. When you are about half a meter from the other cable exit end, stop embedding, and have one person firmly hold the embedded part in place to prevent it from slipping out. The other person should then take the opposite cable exit end and start embedding from that side. Continue until both ends are fully embedded.

4. Removal:
(1) Single ended cable product:
   Before starting the removal process, ensure that the electricity is disconnected. We suggest that the removal should be performed by two people (or with a help of a rack to support the removed strip light). Begin the removal process at the cable exit end. One person should carefully handle the removal, while the other supports the strip light being removed. This coordination ensures a smooth process and helps protect the strip light from damage. Once the removal is complete, carefully cut the electrical wires.
(2) Double ended cable product:
   Before starting the removal process, ensure that the electricity is disconnected, and cut the wires at one end. The removal should be performed by two people (or with a help of a rack to support the removed strip light). As you approach the other end, cut the wires to complete the removal.

Warning! If the strip light stops working during use and is still within the warranty or replacement period, please consult with the after-sales department before returning it to the factory for repair or to identify the cause of the damage. Do not attempt to remove it forcefully, as this may damage the internal electronic components.

5. Cutting the LED Strip Light:
(1) Disconnect the electricity before cutting.
(2) During the cutting process: Try to align the cut with the cutting line on the strip, or trim at the black dot on the strip.

6. Make sure to provide the voltage as indicated on the LED strip's label. (Insufficient voltage might prevent the lights from turning on or cause them to appear dim. Excessive voltage will damage the LED strip.)

7. The installation environment for silicone LED strip light should be free of corrosive gases, such as carbon dioxide, methane, chlorofluorocarbons, etc. These gases will cause various degrees of damage to the silicone, such as yellowing, hardening, or becoming brittle.