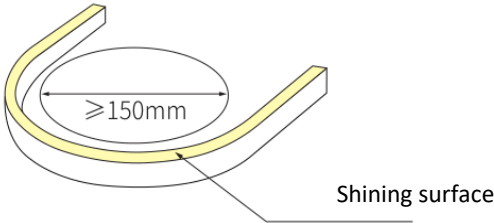


▼ 1220

▼ Characteristic



IP68 Neon Flex – Engineered for Underwater Excellence

- 1.Advanced Sealing & Extrusion
- Precision-engineered with integrated extrusion and professional sealing technology, achieving IP68 protection — suitable for continuous underwater use up to 3 meters.
- 2.Chlorine-Resistant Silicone Formula
- 1Specially developed silicone compound tolerates chlorine levels <=5PPM, ensuring long-term corrosion ,resistance in pool environments.
- 3.Seamless Optical Performance
- Proprietary optical structure delivers uniform light output with no shadows, hotspots, or light leakage from sidewalls or base. No clear window.
- 4.Optional Matte Finish
- Soft-touch, anti-dust surface available with matte frosting for enhanced aesthetics and tactile experience.
- 5.Reliable & Guaranteed
- Backed by a 3-year warranty for peace of mind in demanding outdoor and underwater applications.

▼ Application

- I + **Infrastructure:** Airport ,Railway Station ,Bridge , Municipal building ,Tunnel
- I + **Urban:** Administrative Building , Commercial Building , Hotel , Mall
- I + **Cultural and Entertainment:** Pavilion , Plaza ,Village ,Amusement park ,Monuments ,Cathedral ,Heritage site

▼ "Non-dim/dim" and "Mono/Tunable white/chromatic" is available,
Pls confirm before ordering.



ON/OFF 0-10V DALI DMX TRIAC

▼ Technical Data

Model	SIZE (mm)	BENDING DIRECTION	POWER (W/M)	CRI	CCT (K)	LUMINOUS (LM/M)	VOLT	Control	CUTTING (mm)	Remark
NeonLine-07_1220	W12xH20mm	Side Bending (Φ >=150mm)	10	>80	Mono 1800-6500K W=3000K	285	DC24V	ON/OFF	50	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending (Φ >=150mm)	10	>80	Mono 1800-6500K W=4200K	272	DC24V	ON/OFF	50	standard 3pc clips/M

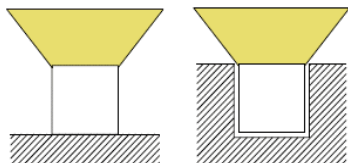
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	10	>80	Mono 1800-6500K W=6000K	281	DC24V	ON/OFF	50	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	10	>80	Tunable white 2700-6500K	285	DC24V	ON/OFF	62.5	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	5	>80	Tunable white W=2700K	140	DC24V	ON/OFF	62.5	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	5	>80	Tunable white W=6500K	145	DC24V	ON/OFF	62.5	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	10	/	Chromatic (RGB)	190	DC24V	ON/OFF	83.3	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	3.3	/	Chromatic (Color=R)	36	DC24V	ON/OFF	83.3	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	3.3	/	Chromatic (Color=G)	130	DC24V	ON/OFF	83.3	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	3.3	/	Chromatic (Color=B)	24	DC24V	ON/OFF	83.3	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	11.5	/	Chromatic (RGB)	99	DC24V	SPI	125	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	4.8	/	Chromatic (Color=R)	22	DC24V	ON/OFF	125	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	4.8	/	Chromatic (Color=G)	70	DC24V	ON/OFF	125	standard 3pc clips/M
NeonLine-07_1220	W12xH20mm	Side Bending ($\Phi \geq 150\text{mm}$)	4.8	/	Chromatic (Color=B)	12	DC24V	ON/OFF	125	standard 3pc clips/M

Notes:

1. Finish: White, and customized Black, Grey available
2. It has three different sizes from 5W-15W.

▼ Installation Method

1. Surface Mounted
2. Recessed Mounted



▼ Outlet Method



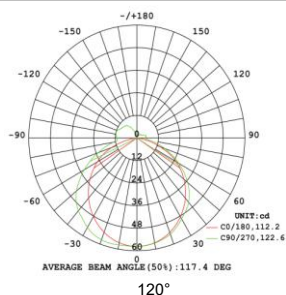
Straight outlet

Side outlet

Bottom outlet

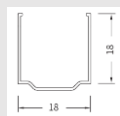
End cap

▼ Photometric curve



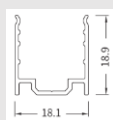
▼ Installation Accessories





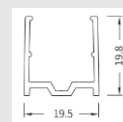
1

Mounting clip



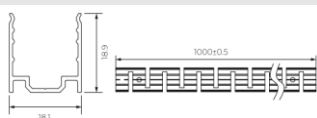
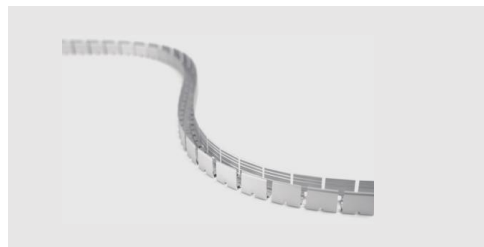
2

Aluminum profile



3

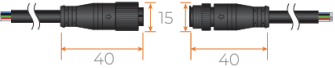
Plastic profile



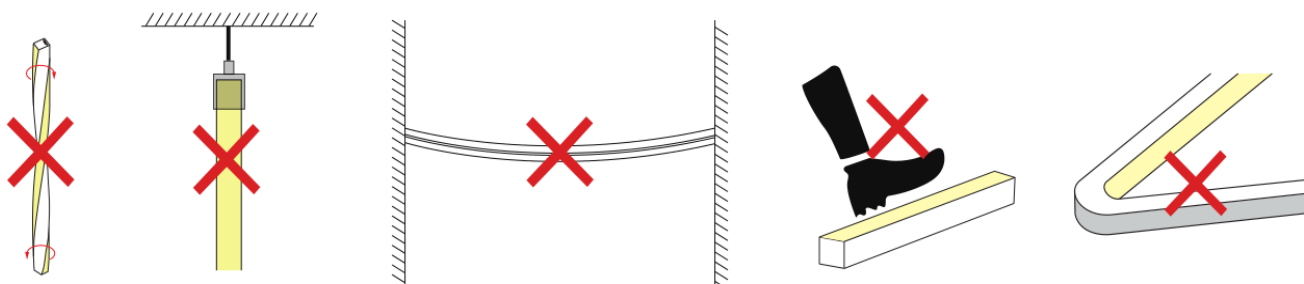
4

Flexible channel

▼ Cable Accessories

Cable Type	Schematic Diagram	Specification	Core	Electrical Definition
Silicone Cable		Single Color DC24V ON/OFF	2pins	Red: DC24+ Black: DC24V-
		Tunable White Color DC24V ON/OFF	3pins	Black: DC24+ White: W Green: WW
		RGB DC24V ON/OFF	4pins	Black: DC24+ Blue: B Green: G Red: R
		RGBW DC24V ON/OFF	5pins	Black: DC24+ White: W Blue: B Green: G Red: R
		RGBW DC24V DMX512	5pins	Red: DC24+ Black: DC24- Green: PI/PO Blue: BI/BO White: BI/BO
Waterproof male and female connectpr		Single Color DC24V ON/OFF	2pins	Red: DC24+ Black: DC24V-
		Tunable White Color DC24V ON/OFF	3pins	Black: DC24+ White: W Green: WW
		RGB DC24V ON/OFF	4pins	Black: DC24+ Blue: B Green: G Red: R
		RGBW DC24V ON/OFF	5pins	Black: DC24+ White: W Blue: B Green: G Red: R
		RGBW DC24V DMX	5pins	Red: DC24+ Black: DC24- Green: PI/PO Blue: BI/BO White: BI/BO

▼ Installation Notes



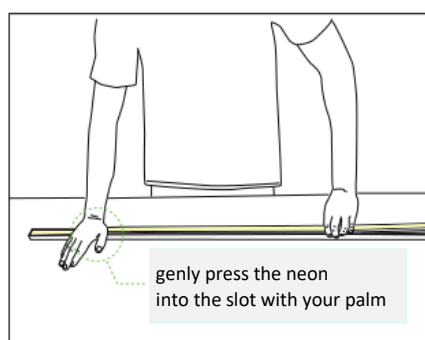
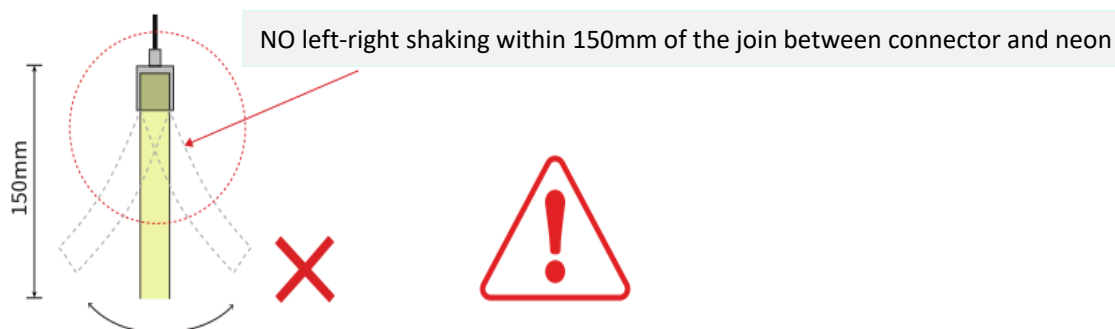
NO twisting

NO hanging power cable

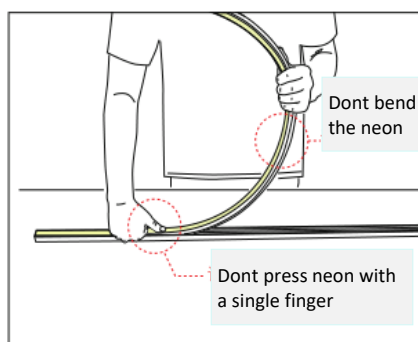
NO neon suspension

NO stepping

NO small-angle bending

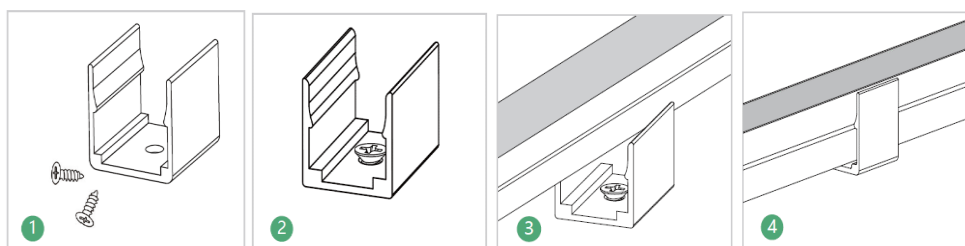


gently press the neon into the slot with your palm



▼ Installation Instructions

Option 1: Short Mounting Clip (1 meter with 3)

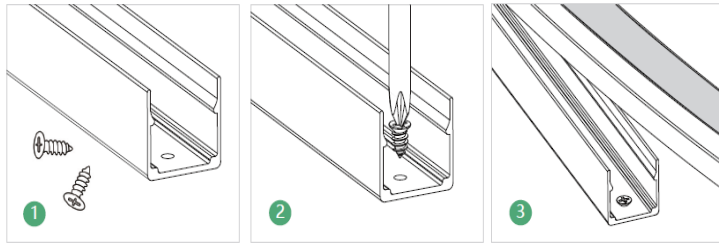


Step 1: Prepare the screws and clips.

Step 2: Adjust the clips to the proper position. Use a screwdriver to drive in the screws to secure them.

Step 3: Secure the neon light strip to the mounting profile carefully. Avoid excessive bending, twisting, or force during installation to prevent damage..

Option 2: Plastic Profile (with screws)



Step 1: Prepare the screws and profiles.

Step 2: Adjust the aluminium profile to the right place. Drive in the screws with a screwdriver.

Step 3: Secure the neon light strip to the mounting profile carefully. Avoid excessive bending, twisting, or force during installation to prevent damage..

▼ Installation & Safety Instructions – Neon Flex Strip Light

1. Electrical Safety & Power Supply

- 1) Only use DC24V isolated constant voltage power supplies with ripple voltage < 5%.
- 2) Ensure the input voltage matches the product's rated voltage, and double-check polarity. Reversed connections may damage the product.
- 3) Do not connect power while energized. Always power off before installation to avoid electric shock.
- 4) Leave at least 20% power margin in the power supply selection for system stability.
- 5) When using multiple power supplies, do not connect positive terminals in parallel, as this can cause long-term instability or failure.

2. Power & Length Limits

- 1) Per UL676, the power consumption must not exceed 15W per meter, and the total power per single strip should not exceed 100W.
- 2) Do not exceed the maximum recommended run length. Overlength installation may cause voltage drop, overheating, or brightness inconsistency.

3. Installation Handling & Protection

- 1) Fix the neon light strip gently into the mounting profile.
- 2) Avoid scratching, twisting, or forcefully bending the product during installation.
- 3) Respect the minimum bending radius to avoid internal damage.
- 4) Do not over-bend the product; excessive bending may permanently damage the internal structure.
- 5) Avoid prolonged direct eye exposure to the illuminated surface.

4. Environmental Compatibility & Material Considerations

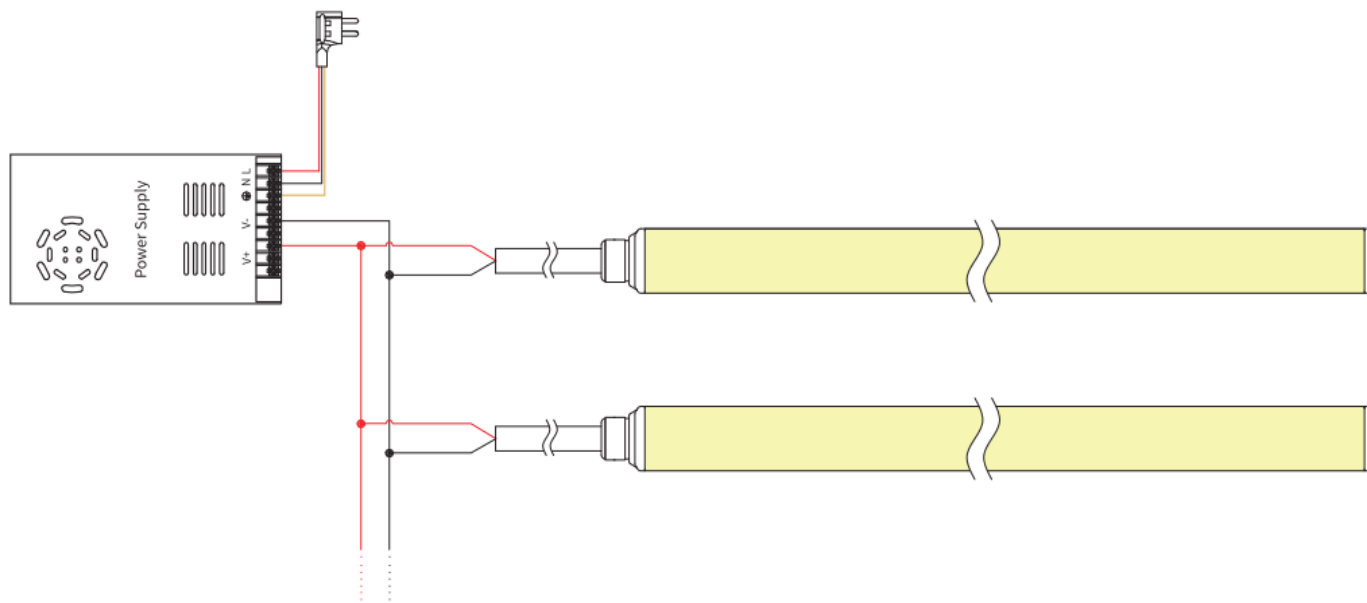
- 1) Unused products should be sealed in original packaging to avoid air exposure and material degradation.
- 2) For IP68 models, it is strongly recommended to customize length and sealing at the factory. Post-delivery cutting may compromise waterproof integrity.
- 3) IP67 models are not suitable for long-term submersion in water.
- 4) Neon strip uses a special silicone formula resistant to chlorine concentrations ≤ 5 PPM, making it suitable for swimming pools.
- 5) Do not use acidic or alkaline adhesives (e.g., silicone sealants) when mounting, as they may corrode the product.
- 6) Color tone may vary slightly between different sizes or structures, even at the same color temperature — confirm before installation.

5. Indoor Air Quality & Silicone Protection

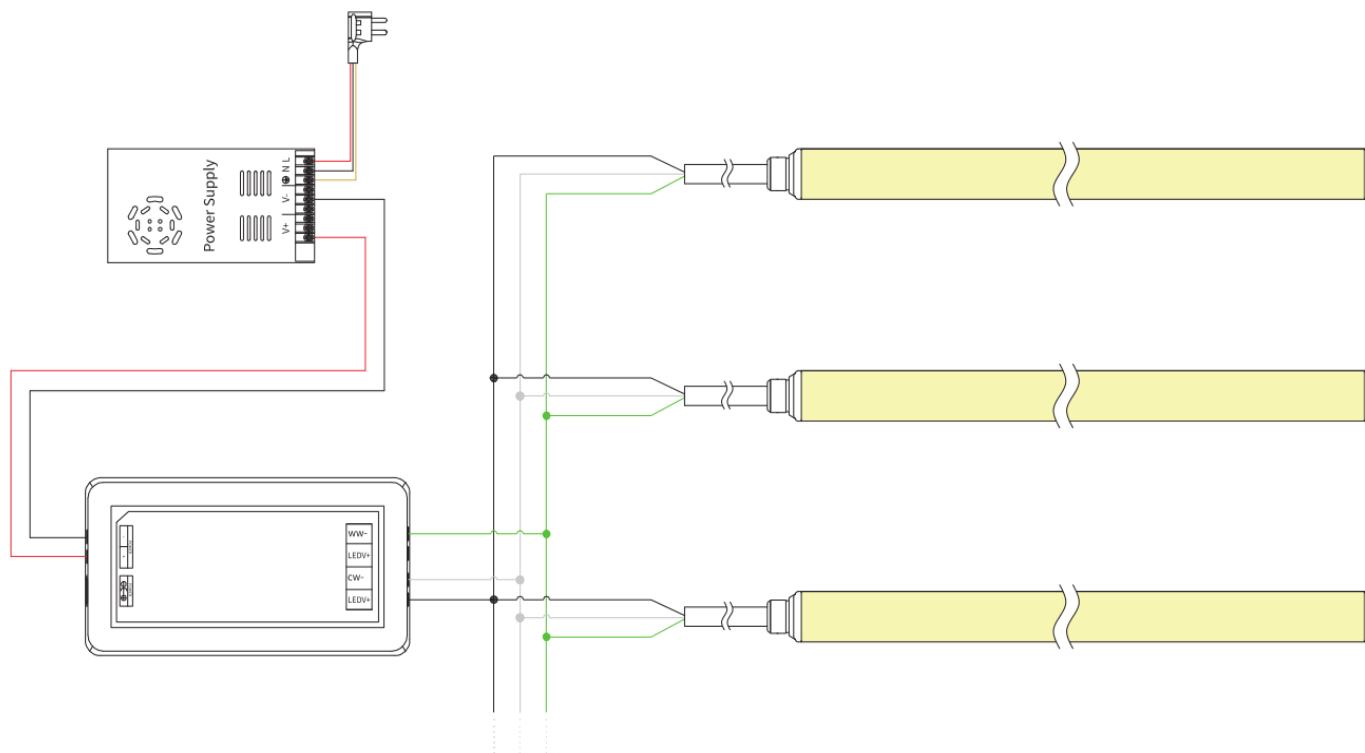
- 1) Substances such as methanol and benzene can cause yellowing of silicone materials.
- 2) In newly renovated indoor spaces, paints, wallpaper glue, and new furniture may release formaldehyde or volatile organics.
- 3) Ensure good ventilation and removal of harmful vapors before installing silicone-based neon strips to maintain material clarity.

▼ Wiring Diagram

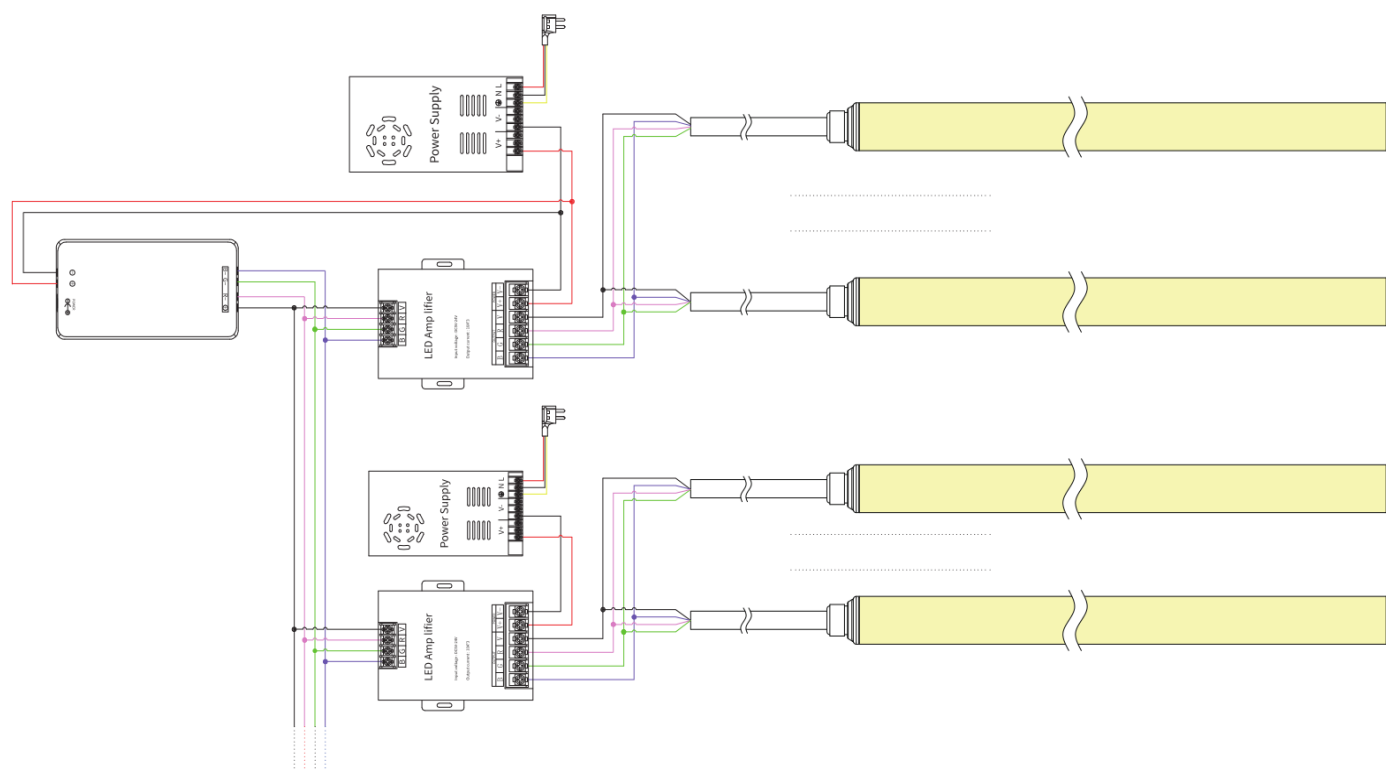
1. Single Color DC24V ON/OFF



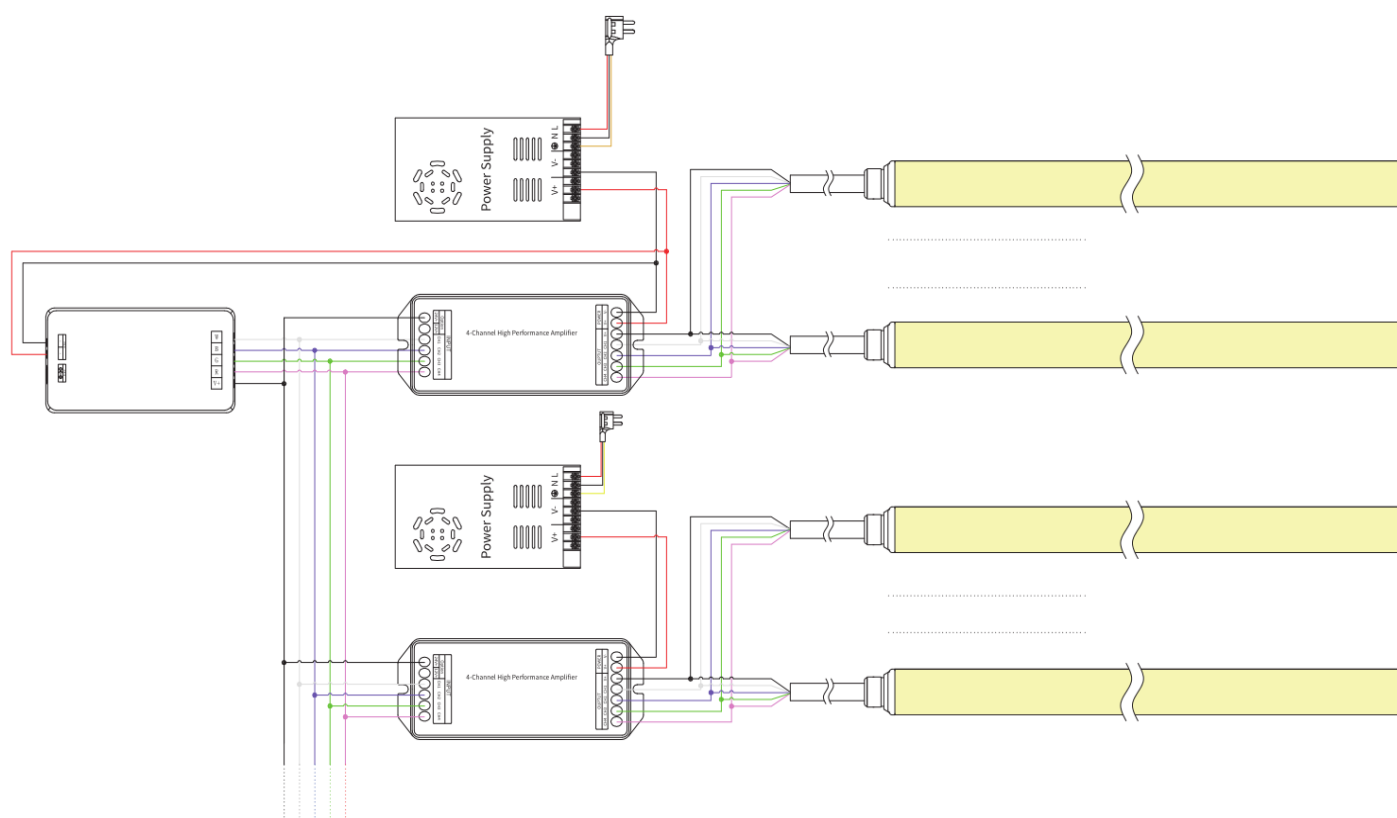
2. Tunable White DC24V ON/OFF



3. RGB DC24V ON/OFF



4. RGBW DC24V ON/OFF OR DMX



▼ Project of IP68 Neon

