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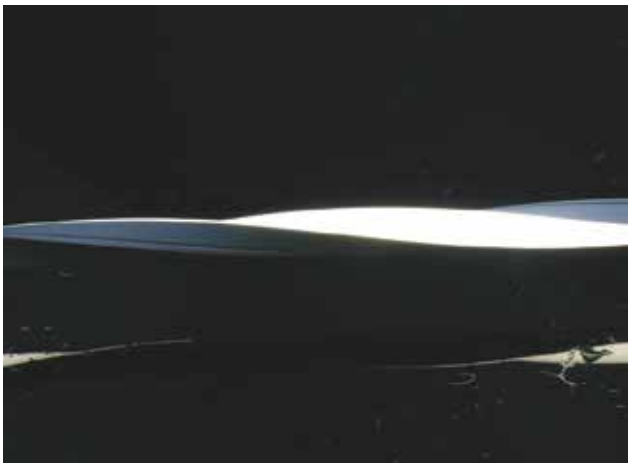
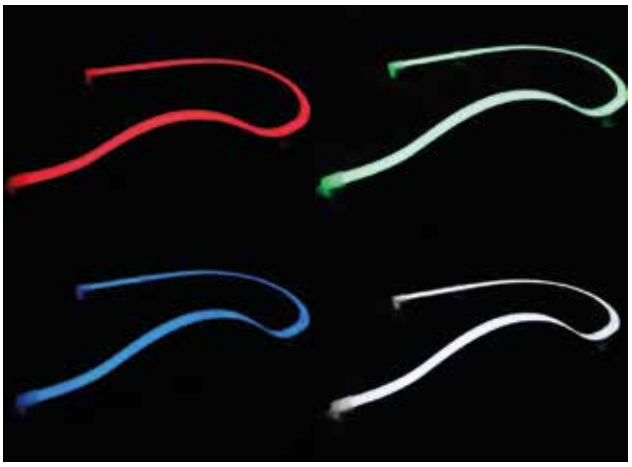
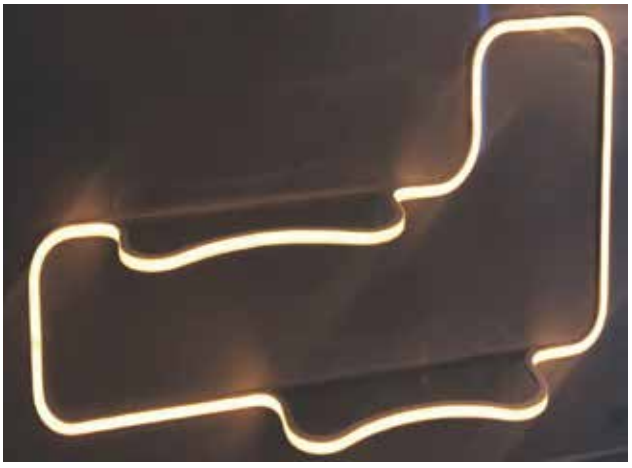
data sheet
Filoflex 16







Features

1. Dual-bend performance to fix many plane, curved and complex irregular structures at will.
2. Static white, TW, Dim-to-Warm, RGB
3. On-site free-cutting and assembly for fast and flexible customization operation, with end cap sealed by gluing process.
4. Dimmable available with PWM signal.
5. Compared with traditional fragile glass and harden/yellowing easily PVC sheathing material, silicon extrusion technology is an advanced process, with high-efficiency production capacity and environmentally-friendly characteristics. Additionally, with high grade appearance, soft bend flexibility, strong impact resistant and high weather resistance.
6. 8. Up to 50,000h LED lifespan.
7. 9. IP67 for indoor and outdoor usage

Application

Ideal for decorative and contour lighting for residential and commercial space.

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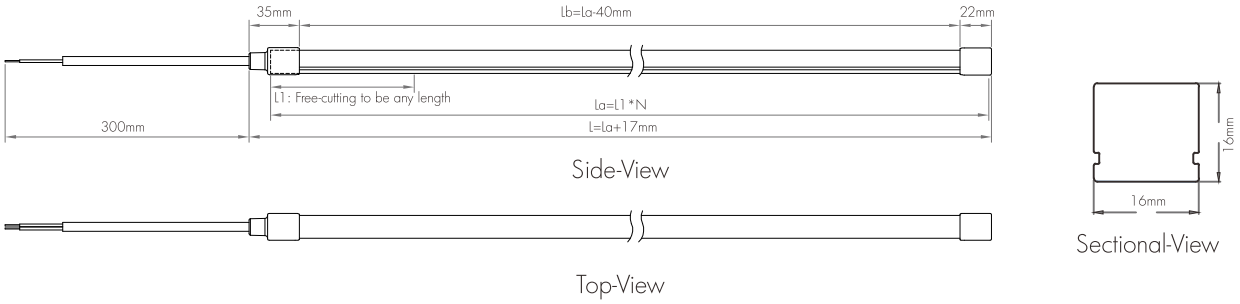
Dimension

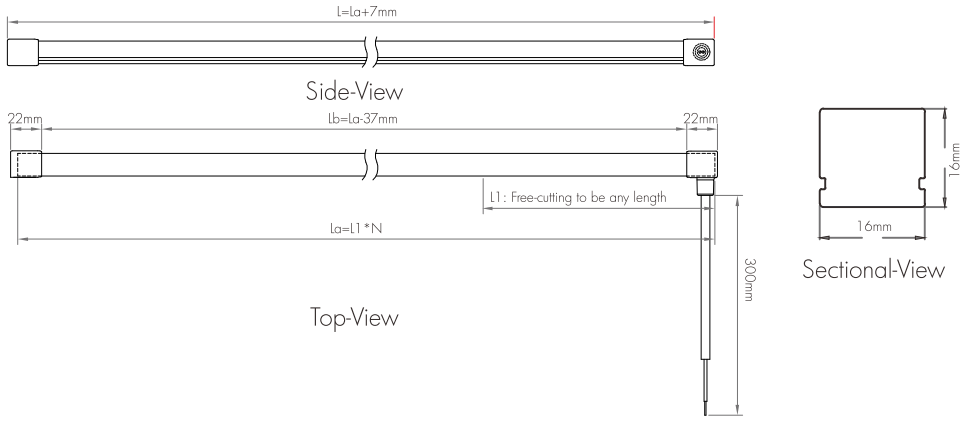
length
Lb: Luminous surface length
N: Number like 1, 2, 3.....

La: LED strip length
L1: LED strip increment

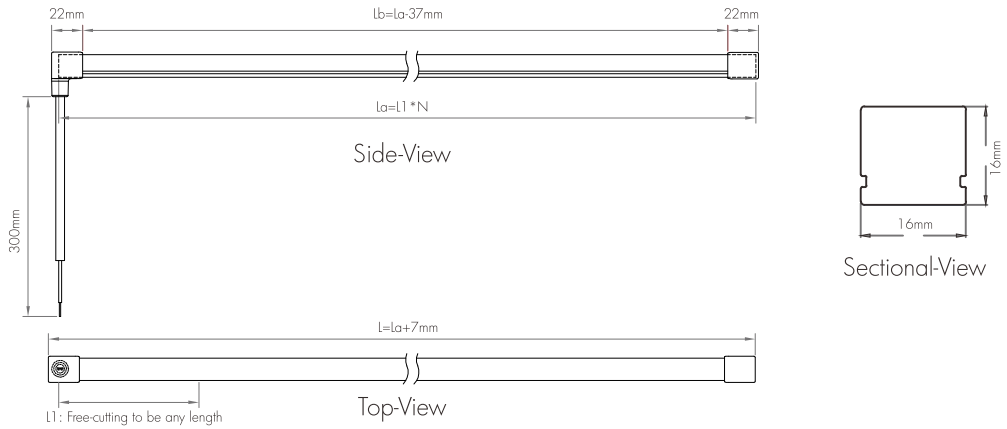
Power entry from the tail



Power entry from the side



Power entry from the bottom



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Filoflex 16

General Parameters

Part. No.	Style	Dimension	Max Length	Strip increment	LED QTY	IP&IK Rating	Operating Ambient	Lifespan
Filoflex 16	Dual-Bend (White)	16x16mm	5m	Free-cutting to be any length	120LED/m	IP67 & IK06	Ta: -20~45°C	50.000h L70@Tc≤65°C
Filoflex 16	Dual-Bend (TW)			50mm	240LED/m			
Filoflex 16	Dual-Bend (WD)			50mm	240LED/m			
Filoflex 16	Dual-Bend (RGB)			50mm	120LED/m			

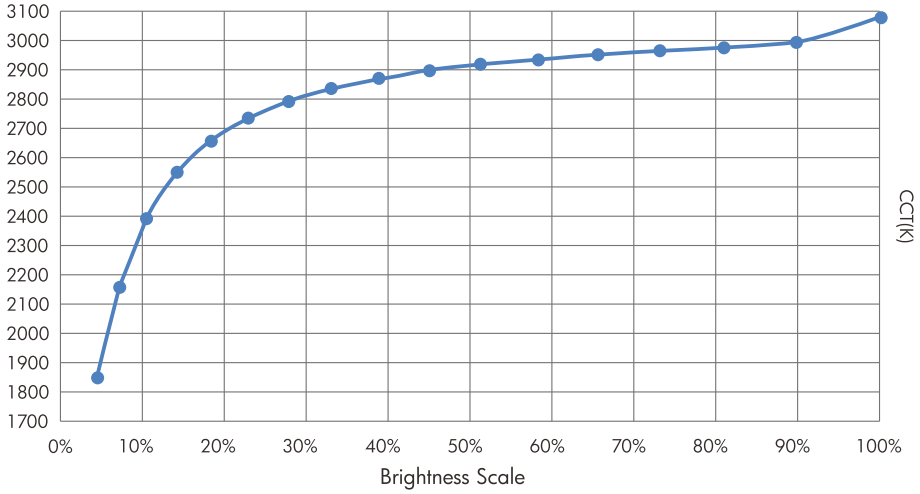
Photoelectric Parameters

Part. No.	Style	Power ±10%	Operating Voltage	Colour Temperature	CRI90, 4000K		Beam Angle
					Luminous Flux ±10%	Light Efficiency	
Filoflex 16	Dual-Bend (White)	14W/m	24VDC	2700K 3000K 4000K	710lm/m	/	120°
Filoflex 16	Dual-Bend (TW)	14W/m		2700K-6000K	670lm/m 330lm/m 340lm/m	/	
Filoflex 16	Dual-Bend (WD)	10W/m		1800K-3000K	390lm/m	/	
Filoflex 16	Dual-Bend (RGB)	14W/m		R:615-625nm G:515-530nm B:460-470nm	/	/	

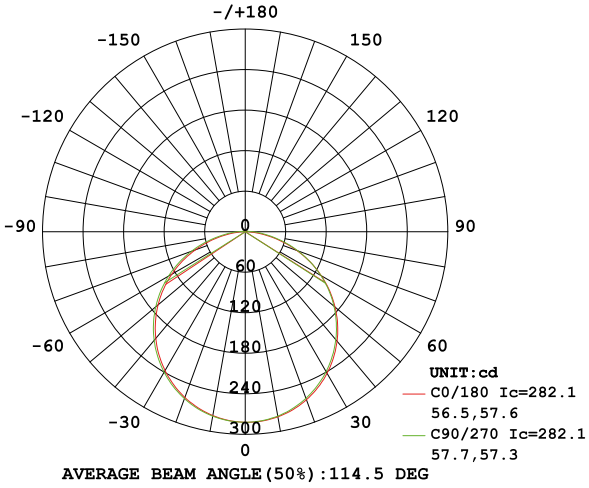
Note

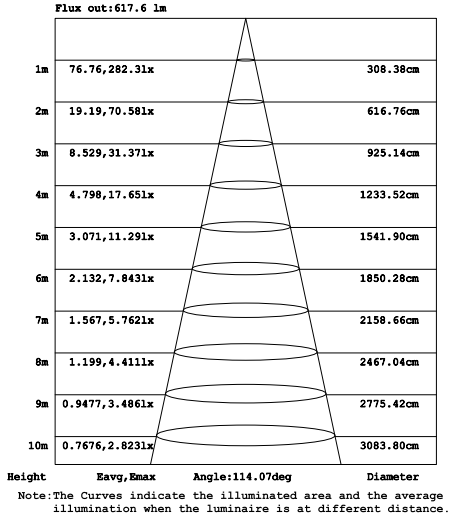
1. Luminous flux for CCT 2700K is 10% lower, for CCT 3000K is 5% lower, compared with 4000K.
2. The power of the strip need to be reduced to 5W/M.]@White for operating ambient temperature in -20~55°C.

Dimming curve demonstration (WD)



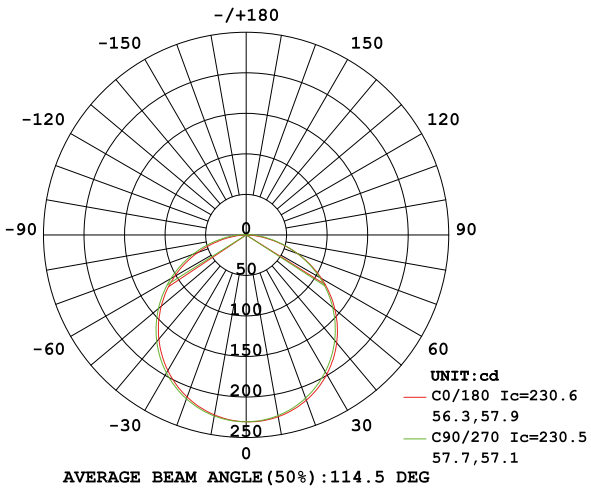
Photometrics

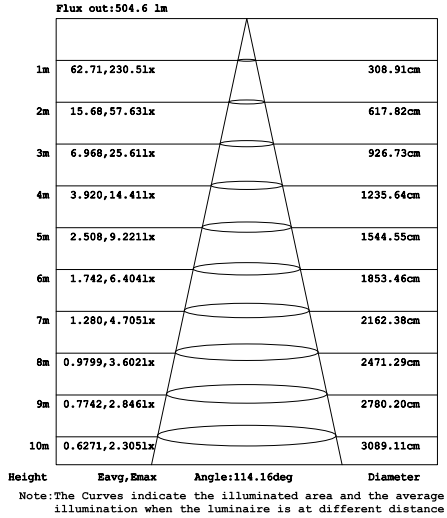




Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

White, 4000K





Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

TW, 4000K

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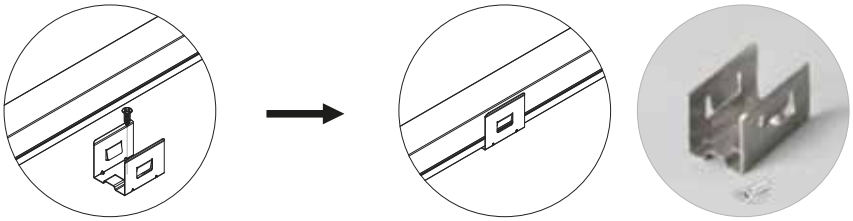
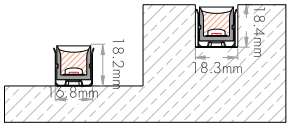
Fixed by aluminum bracket and screw

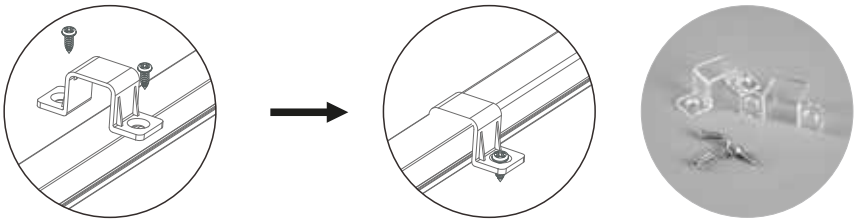


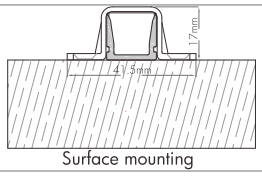
Space & Groove are shown as below



Surface & Recessed mounting

Fixed by clip and screw

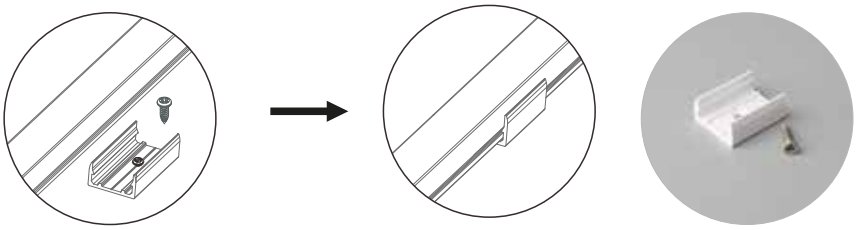




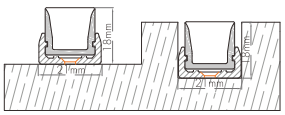
Surface mounting

Note: Transparent color is standard. PC material is not recommended for long-term exposure to outdoor sunlight.

Fixed by plastic bracket and screw



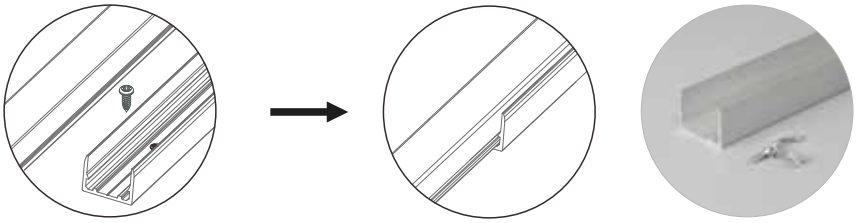
Space & Groove are shown as below



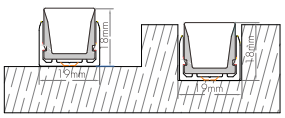
Surface & Recessed mounting

Note: White color is standard. PC material is not recommended for long-term exposure to outdoor sunlight.

Fixed by aluminum profile and screw

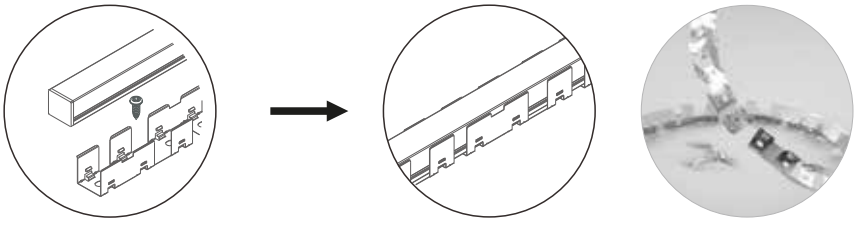


Space & Groove are shown as below

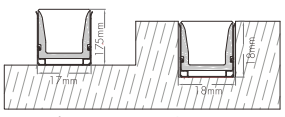


Surface & Recessed mounting

Fixed by bendable bracket and screw



Space & Groove are shown as below



Surface & Recessed mounting

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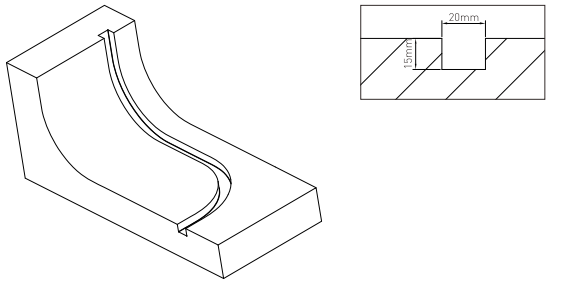
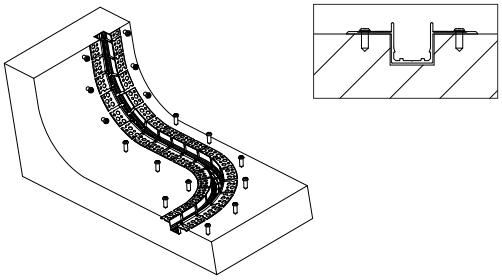
Filoflex 16

Installation

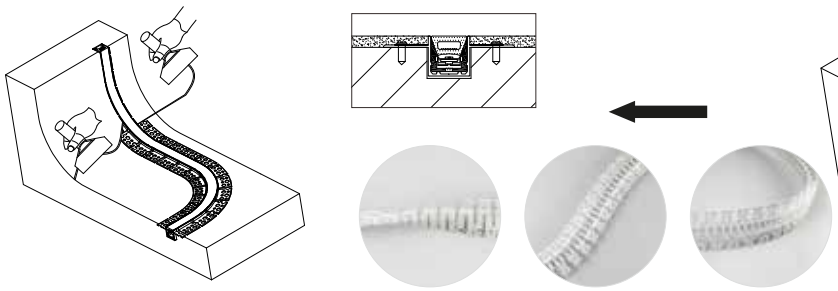
Fixed by dual-bend plaster-in aluminum profile and screw
(The bending method of the profile during use, should be determined based on the bending method of the neon strip.)



Make a groove with the size of W20*H15mm[W0.79*H0.59in.] on the mounting surface.

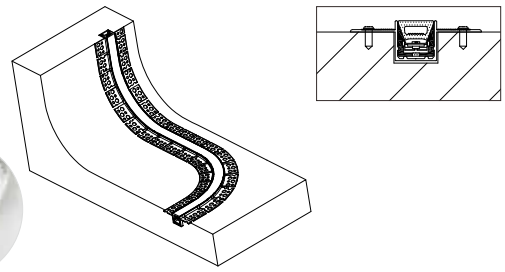


Fix the dual-bend plaster-in aluminum profile to the groove by screw.



In addition to the neon strip, the areas on both sides of the illuminated surface should be plastered and dried before completion.

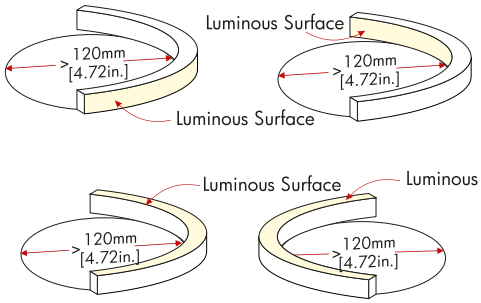
Attention: Aluminum profile can not be used in swimming pool.

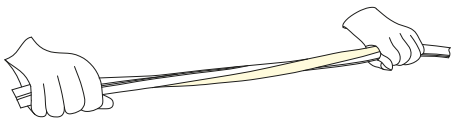


Press the neon strip into the dual-bend plaster-in aluminum profile.

Note

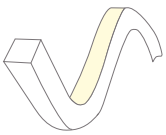
1. Adopt suitable power supply with power is 20% higher than the max. power of product, to ensure long time performance of power supply.
2. Do not install it when power is on. Before powering on, make sure the wiring is correct.
3. Avoid privately changing or damaging the circuit or other component on the product.
4. Avoid scrape, twist and irregular bend during installation, which might cause non repairable status for the product.
5. Minimum bending diameter definition, is 120mm[4.72in.] too small bending diameter will break the product.
6. Minimum twist degree definition, is 360° per 1000mm[39.4in.] length.
7. Product linked in over long length will lead to problem of overload or uneven brightness.
8. To protect your eyes, do not stare at the product for a long time while it's illuminated.
9. Only professional personnel can install, dismantle and repair.
10. Bend and twist diagram is shown as below.



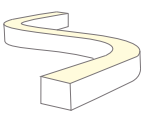


⚠ Max. Twist Angle is 360° per 1000m[39.4in.]

Can be top-bend

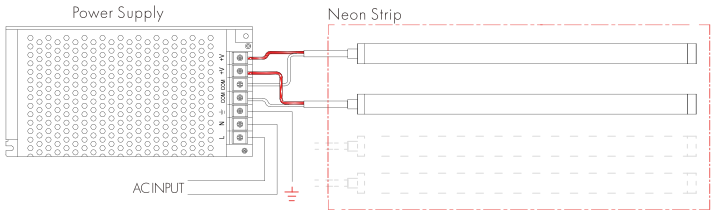


Can be side-bend

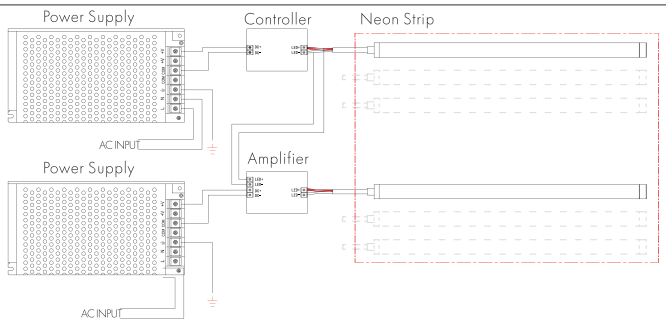


Connection

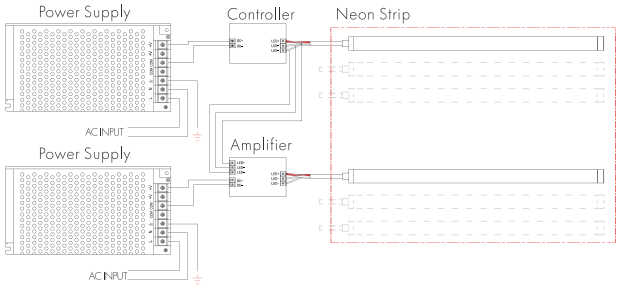
Non-Dimming Status for White Color



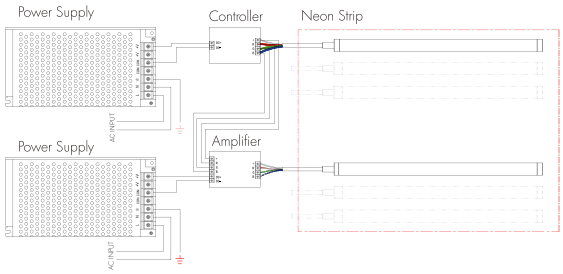
Dimming Status for White/WD Color



Dimming Status for TW

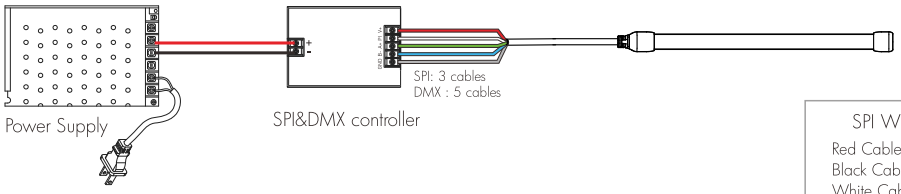


Dimming and tuning Status for RGB/RGBW



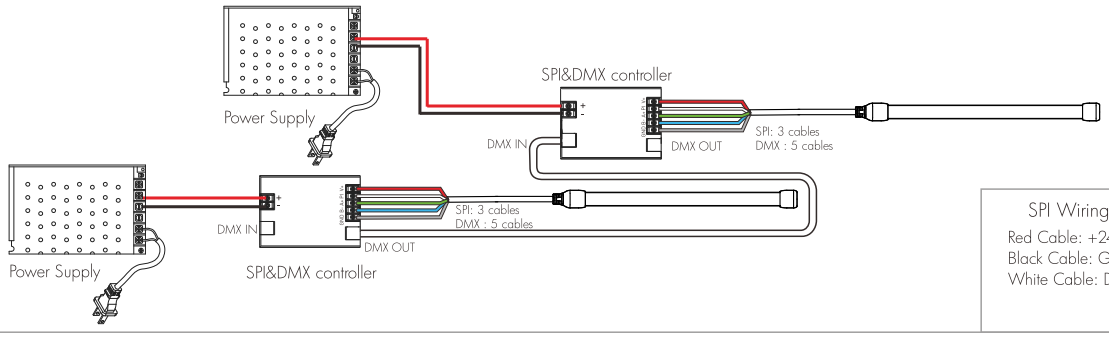
Connection

Dimming and tuning Status for SPI/DMX RGB/RGBW (option 1)



SPI Wiring	DMX Wiring
Red Cable: +24V Black Cable: GND White Cable: DI	Red Cable: +24V Black Cable: GND Green Cable: A Blue Cable: B White Cable: PI

Dimming and tuning Status for SPI/DMX RGB/RGBW (option 2)



SPI Wiring	DMX Wiring
Red Cable: +24V Black Cable: GND White Cable: DI	Red Cable: +24V Black Cable: GND Green Cable: A Blue Cable: B White Cable: PI

Important notice for wiring: the linkable connection must be form DI/PI to Do/PO strictly following the arrow printing on connector, it can't be made by reverse connection, otherwise the product will be out of control and even damaged.