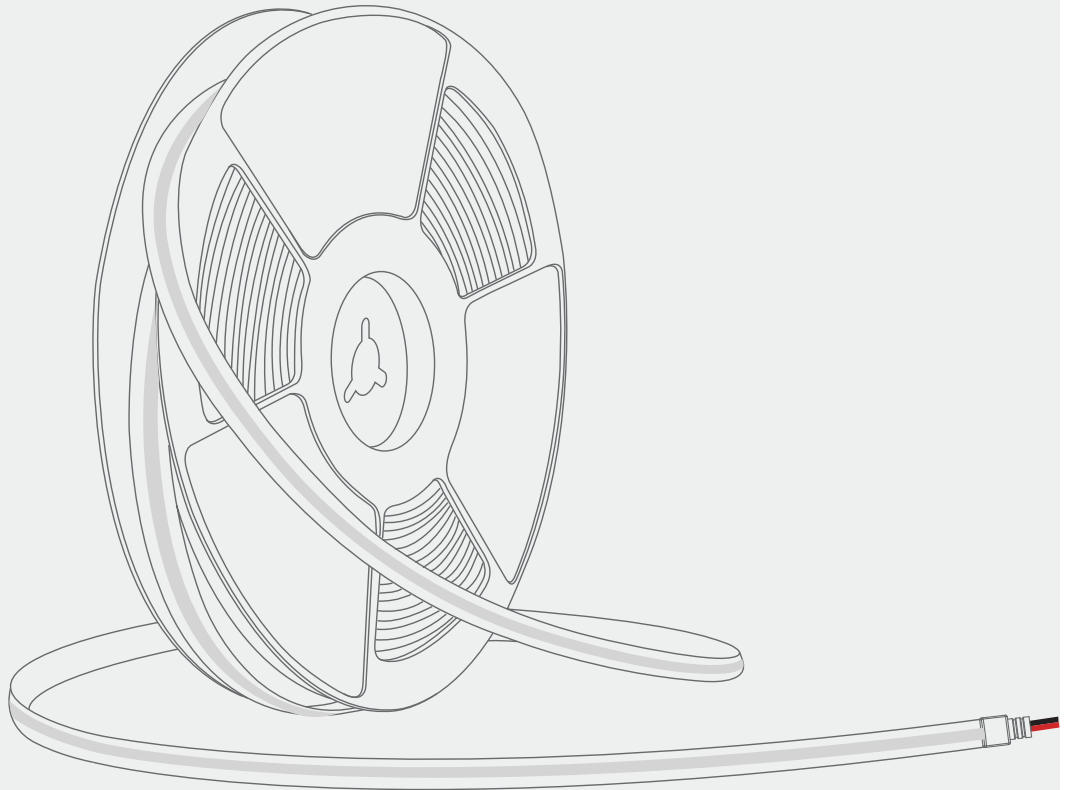




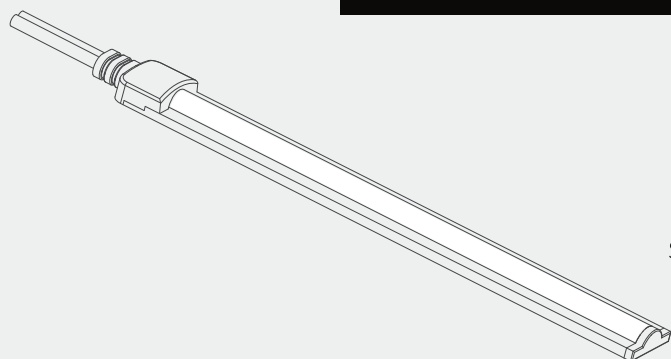
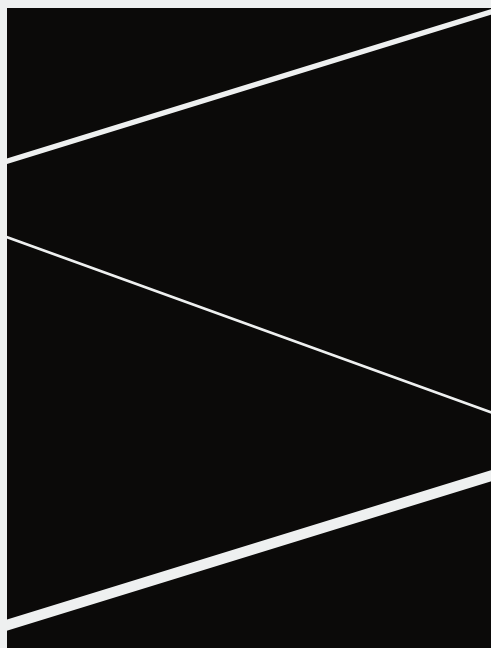
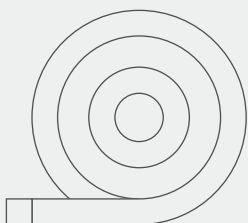
HELIAN



COB LED STRIP PLUS

HL-ST20V24-Cxx-PLUS 12

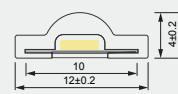
COB PLUS 12 soft LED light strip



12MM



Single Color /Dual-White
RGB/Digital RGB



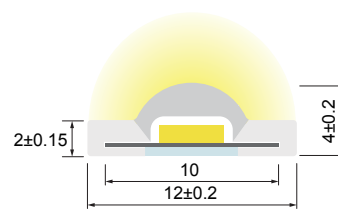
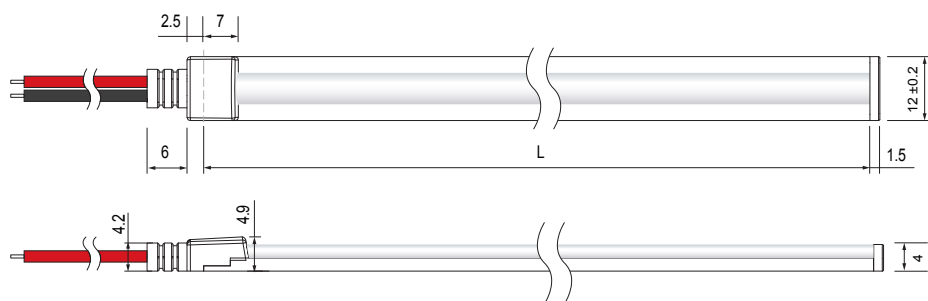
Cross section



IP65

Dimension structure

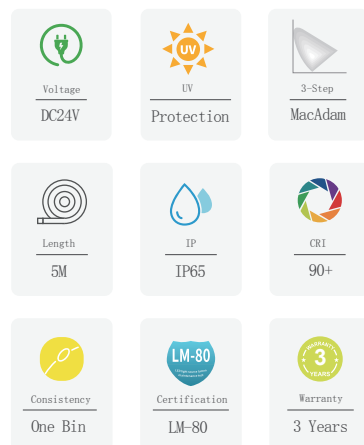
12MM



Cross section

Parameter Table For 12MM

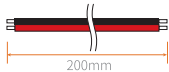
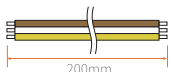
Single-Color



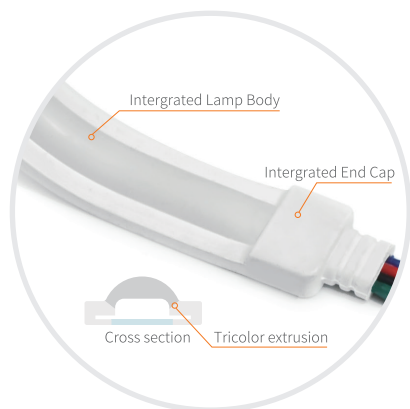
- Max. Run length refers to single side feed in serial connection.
- The given color temperature is the temperature of finished product.
- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.
- Working Temperature: -20~+50°C

CCT(K)	CRI	SDCM	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	Voltage
2400	>90	<5	5	429	85.9	25	5	DC24V
			10	826	82.6			
			15	1208	80.6			
2700	>90	<5	5	433	86.6	25	5	DC24V
			10	833	83.3			
			15	1244	82.9			
3000	>90	<5	5	436	87.3	25	5	DC24V
			10	840	84			
			15	1243	82.8			
3500	>90	<5	5	484	96.7	25	5	DC24V
			10	930	93			
			15	1364	91			
4000	>90	<5	5	442	88.4	25	5	DC24V
			10	851	85.1			
			15	1258	83.9			
5000	>90	<5	5	443	88.7	25	5	DC24V
			10	854	85.4			
			15	1259	84			
6500	>90	<5	5	450	90	25	5	DC24V
			10	867	86.7			
			15	1270	84.6			
R	--	--	5	142	28.4	25	5	DC24V
			10	281	28.1			
			15	416	27.7			
G	--	--	5	349	69.8	25	5	DC24V
			10	628	62.8			
			15	823	54.9			
B	--	--	5	62	12.4	25	5	DC24V
			10	121	12.1			
			15	176	11.7			
Yellow	--	--	5	88	17.6	25	5	DC24V
			10	200	20			
			15	294	19.6			
Orange	--	--	5	108	21.6	25	5	DC24V
			10	246	24.6			
			15	345	23			
Pink	--	--	5	274	54.8	25	5	DC24V
			10	519	51.9			
			15	755	50.3			

Cable Type

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		20AWG Red&Black 2-core Cable		Red V+, Black V-
		20AWG Brown&White&Yellow 3-core Cable		Dual-White: Brown V+, White W, Yellow WW
		20AWG Brown&White&Yellow 3-core Cable		Digital RGB: Brown V+, White DI, Yellow GND
		20AWG Black&Blue&Red&Green 4-core Cable		Black V+, Blue B, Red R, Green G

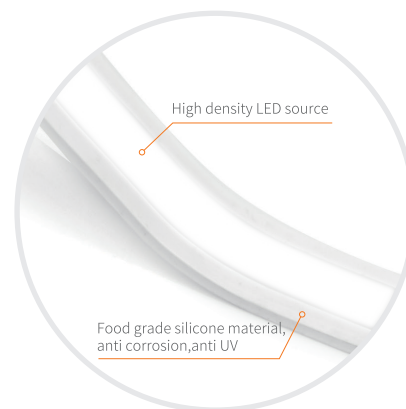
Features



More extreme vision



More perfect touch



More stable performance

Cutting Mark



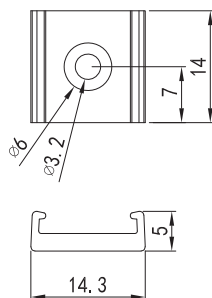
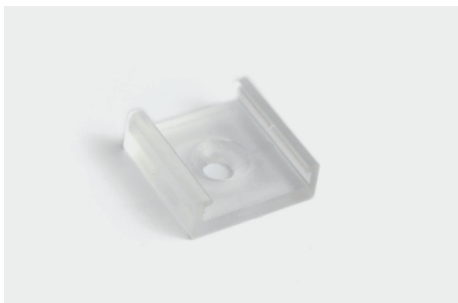
Remark: The bottom of the led strip has transparent window, the black marker is the cutting position



Use professional scissors to cut vertically at the cutting mark

Mounting Accessories

C12 Clip



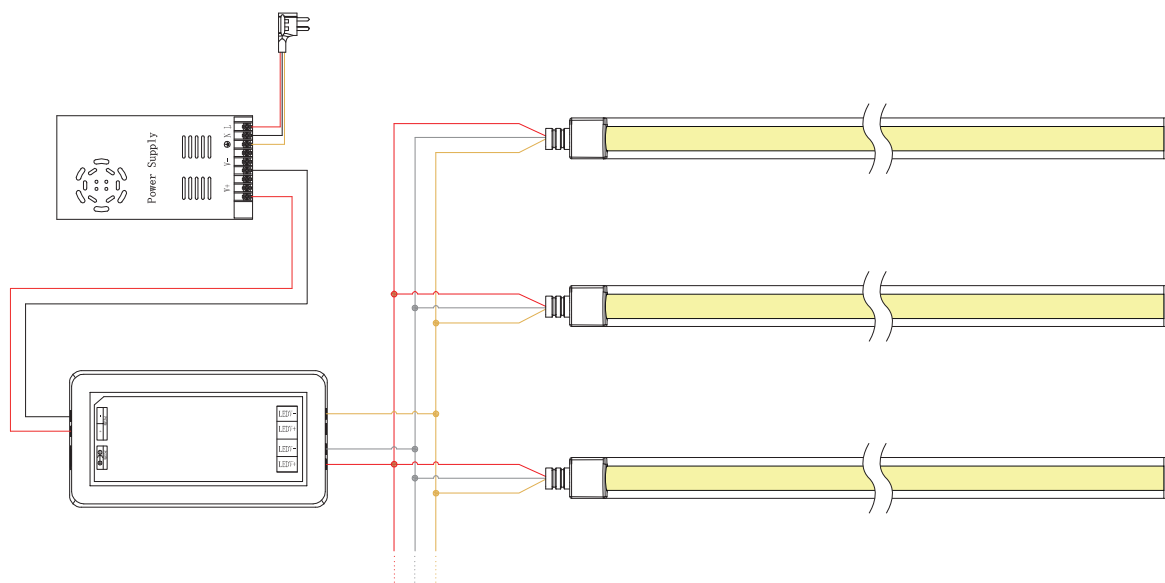
Dimension:
14x14.3x5

Accessories:
PA 3X10 Self tapping screw

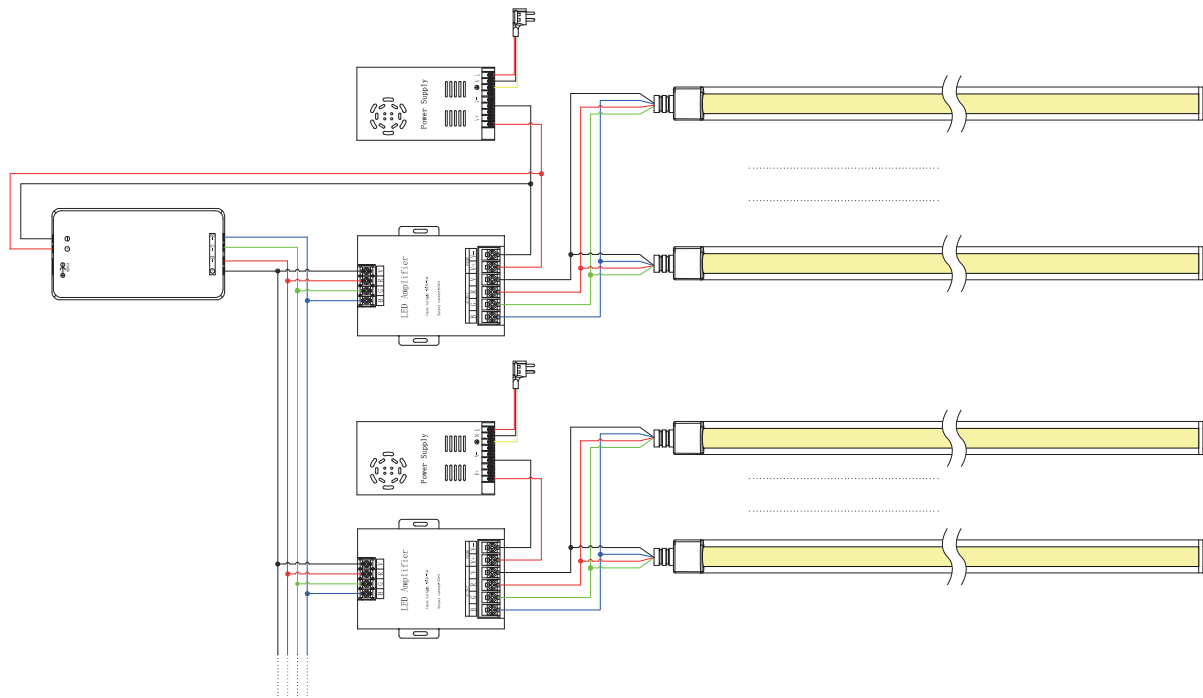
Single Color Connection Diagram



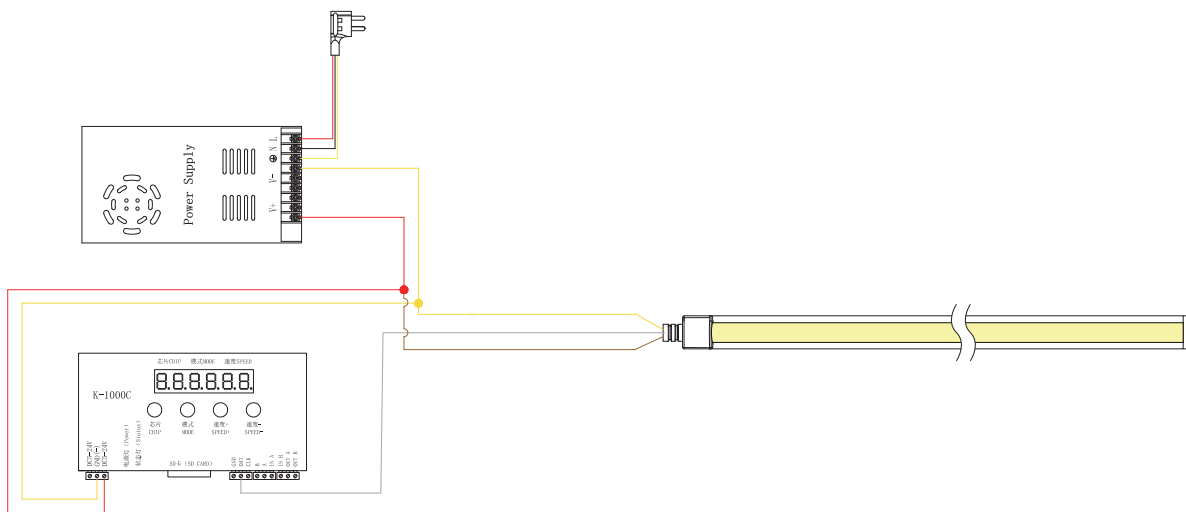
Tunable white Connection Diagram



RGB Connection Diagram

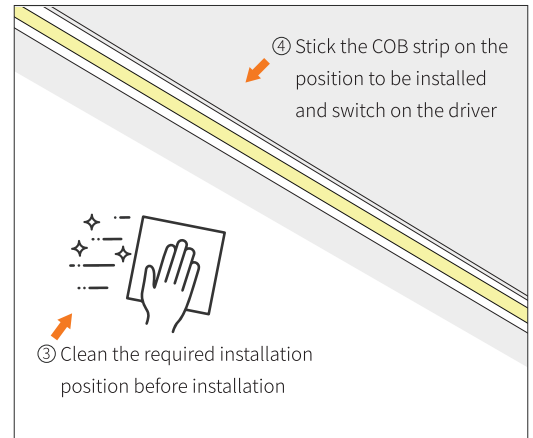
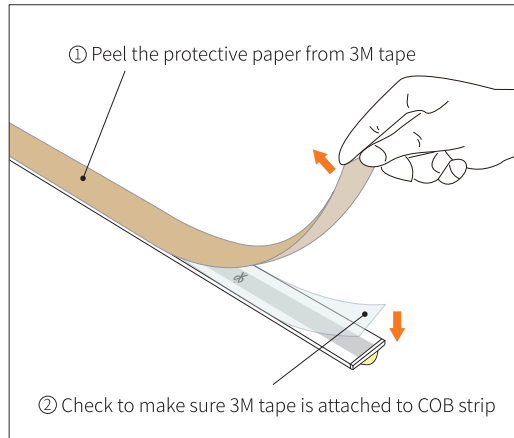


Digital RGB Connection Diagram

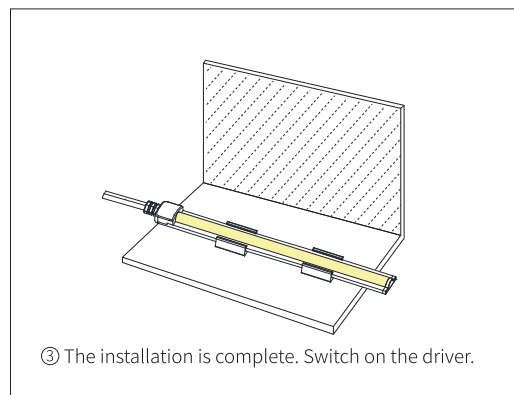
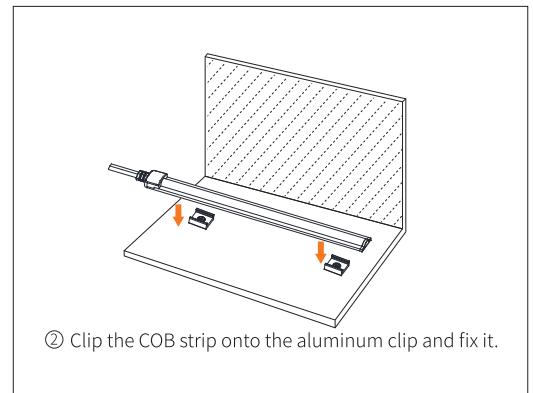
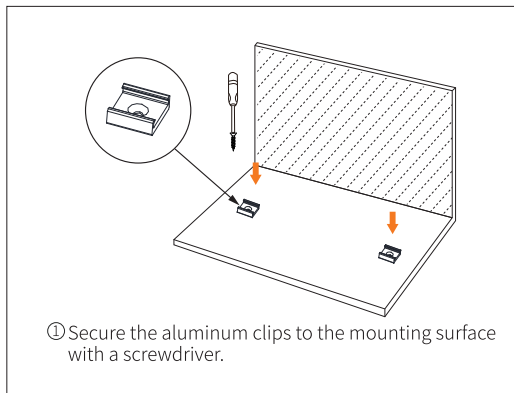


Installation Diagram

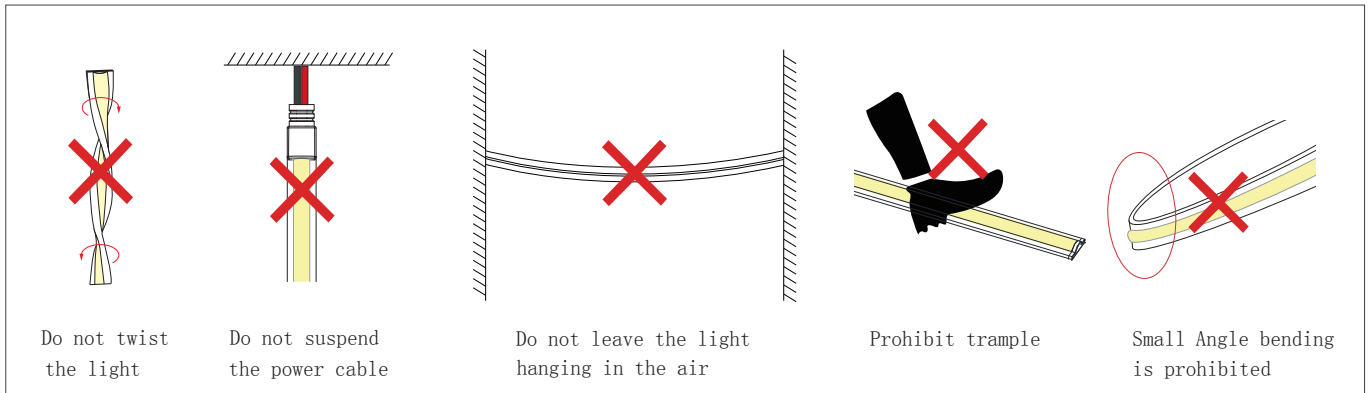
Installation with 3M tape



Installation with aluminum clips



Cautions



- ※The unused light should be sealed with the packaging bag to avoid prolonged exposure.
- ※Please use DC24V isolated constant voltage power supply with ripple voltage less than 5%. Using other types of power supply may damage the light or cause other safety risks.
- ※In practical application, 20% allowance should be reserved for power supply to ensure the stability of power supply.
- ※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 connect wrong, 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 will lead to overload, heating 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 over bend 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.
- ※Non-professionals are forbidden to install, disassemble and maintain the product.
- ※Do not use any acid or alkaline adhesive to fix the light (including but not limited to glass glue, etc.)
- ※Products of different waterproof levels apply to different environments. For example, IP65 cannot be used underwater.
- ※IP68 products are factory assembly only. If the user cut it, its waterproof grade will decline.
- ※Because of the difference in structure, even if the same color temperature value, different sizes of light will look slightly different colors. Please confirm it before use.

Tests showed that methanol and benzenes will have yellowing effects on silicone.

In the newly decorated interior environment, epoxy floor paint, wall paint, wallpaper adhesive, various decoration materials or new furniture, they are likely to release of methanol and benzenes.

It is recommended to remove methanol and benzenes first, or ventilate for a period of time in the newly decorated interior environment before install the silicone neon light, to avoid affecting the silicone body.

H E L I A N

**LED
LIGHTING**



Shenzhen Helian Electronics Co.,Ltd



3F, Tonggao building 2, Sanlian industrial area, Songbai Rd, Shiyan Town, Bao'an District, Shenzhen, Guangdong, China



OUR EMAIL

admin@hlled.com



OUR PHONE

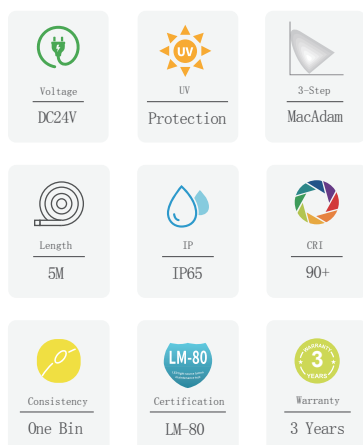
(86)-755-27606785



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Parameter Table For 12MM



- Max. Run length refers to single side feed in serial connection.
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- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.
- Working Temperature: -20~+50℃

Dual-White

CCT(K)	CRI	SDCM	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length(M)	Voltage
2700	>90	<5	5	422	84.4	83.3	5	DC24V
6500			5	434	86.8			
4000±300		--	10	849	84.9			
2700	>90	<5	7.5	619	82.5	83.3	5	DC24V
6500			7.5	639	85.2			
4000±300		--	15	1241	82.7			

RGB

Power(W)	Color	Lumen(LM/M)	Efficiency(LM/W)	Unit Length (mm)	Max. Run Length(M)	Voltage
10	R	54	16.4	50	5	DC24V
	G	175	53.0			
	B	31	9.4			
	RGB	264	26.4			
15	R	76	15.2	50	5	DC24V
	G	233	46.6			
	B	39	7.8			
	RGB	339	22.6			

Digital RGB

Voltage (V)	Power(W)	Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Signal Type	IC Model	UnitLength (mm)	Max. Run Length(M)
12	13	R	42.6	3.3	100	SPI	UCS1903	10	3
		G	141.6	10.9					
		B	33	2.5					
		RGB	208.5	16.0					

* This maximum serial length refers to the recommended connection length of single-end power supply when the COB strip is fully loaded (RGB all on). In practical application, according to the final required effect, when the actual required power is small, the serial length can be extended as appropriate.