APO
10 HE & 15

Index


JRLite
LIGHT FOR FUTURE

JRLITE® | Website: www.jrlite.com
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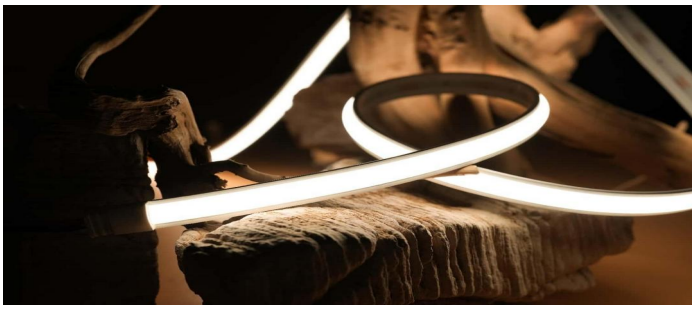
Building A, Jingchengda Industrial Park, ShiyanStreet, Shenzhen, China
Version: JAN. 2026 | Reserve technical changes without notice

What is APO series?

APO Series represents the "Hybrid Masterpiece" of linear lighting—fusing the reliability of an SMD core with the flawless uniformity of COB. Now evolving into a complete family (APO 10 & APO 15), it features a revolutionary cable-like form factor, Dow Corning silicone protection, and aluminum-free efficiency, redefining creative freedom for indoor spaces.



Cable-like flexibility: Sleek, rounded aesthetics (10mm & 15mm widths).

Ultra-long run: Up to 15 meters with a single feed.

Hybrid Technology: SMD reliability meets COB visuals.

IP65 Versatility: 90% indoor application coverage (wet & dry).

Aluminum-Free: Excellent thermal management, no profile needed.

Why is APO series developed?

In lighting evolution, every era craves its breakthrough.
20 years ago, SMD TAPE lit up countless spaces.
6 years ago, COB TAPE became the new standard for uniformity.
Today, the industry faces a trade-off: The durability of SMD vs. the aesthetics of COB.
Beyond SMD. Beyond COB. This is APO.
We developed the APO Series to solve this trade-off. By co-extruding a robust SMD core within advanced silicone, we created a "Hybrid" solution that offers superior mechanical strength, seamless dot-free light, and a next-generation "cable-like" experience.

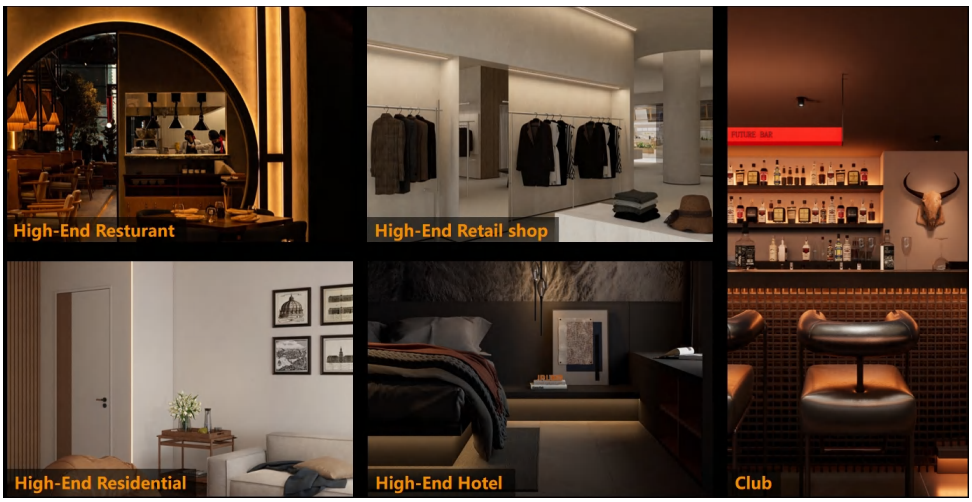
FAB — Customer value & proven success

Cable-Like Aesthetic & Aluminum-Free Efficiency
Feature: A robust, rounded silicone body designed for "Peel & Stick" application.
Advantage: Excellent thermal management eliminates the need for bulky aluminum profiles; blends effortlessly like a cable.
Benefit: Accelerates installation speed and offers a clean, modern look without visible hardware boundaries.

The Hybrid Masterpiece: SMD Core, COB Visuals
Feature: Advanced silicone co-extrusion encasing strictly selected Lumileds/Sanan LEDs.
Advantage: Combines the superior mechanical strength of SMD with the seamless, dot-free glow of COB.
Benefit: Ensures long-term reliability without graininess or color shift, far outlasting fragile bare-board strips.

Efficiency Redefined: 15m Run & Premium Materials
Feature: Supports ultra-long runs of up to 15 meters using Dow Corning silicone.
Advantage: Simplifies wiring complexity and resists UV/corrosion significantly better than standard PVC.
Benefit: Reduces power supply points and maintenance costs, delivering "install-and-forget" peace of mind.

A Spectrum of Solutions: APO 10 & APO 15 Family
Feature: Expanded family including APO 10 (Standard/HE/Free -Cut) and APO 15 (RGB/RGBW/Pixel).
Advantage: From functional high-efficacy lighting (>100lm/W) to dynamic pixel atmosphere creation.
Benefit: One unified system covers 90% of indoor needs—from living rooms to humid bathrooms—easing project planning.



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EPD THE INTERNATIONAL EPD SYSTEM JRLite LIGHT FOR FUTURE

LEDLINE APO 10 HE WHT

The Future Star of Indoor Lighting

WHT | IP65 | INDOOR | 5Yr. WARRANTY | 2 STEP | LUMILEDS L80B10> 54000H | Top view

UL | cULus | TÜV SÜD | CE | RoHS | REACH | CB

Advantages :

-Excellent lighting performance with high lumen output 100lm/w.

- Up to 15m long run design solution optional for more flexible application.

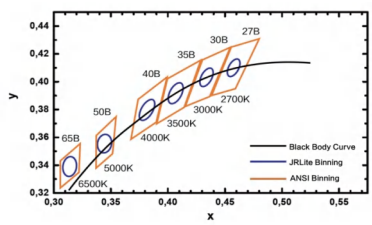
-Ultra-thin and elegant design with totally dot-free visual performance.

-Strong reliability due to the co-extrusion technique. High light transmittance, anti-corrosion&anti -UV.

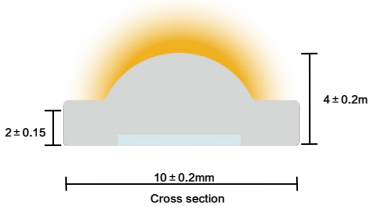
-2-Step MacAdam bin guarantees the most excellent lighting performance over the rated lifetime.

PRODUCT DATA

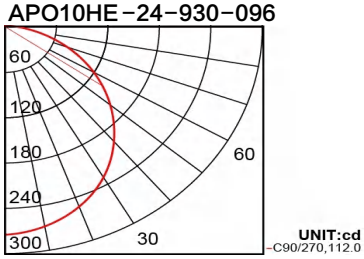
Product Name	LEDLINE APO 10 HE WHT
IP rated	IP65
Size	10*4mm (W*H)
Min. Bending Diameter	60mm
Bending Direction	Top Bending
Min. Cutting Length	25mm
Beam Angle	120°
Tensile-instantaneous	40kg.f
Bending-extreme	1250 times
Twist-extreme	3200 times
Max. Production Length	20 meters



ONE BIN ONLY
Color consistency
Today and tomorrow



APO10HE-24-930-096



ORDER CODE

SERIES NAME	BENDING DIR	VOLTAGE	RA CCT	WATTAGE	LENGTH	CABLE ENTRY
APO 10 HE	T	24=DC24V	922=RA90 2200K	096=9.6W/M	05000=5M	F=FRONT
			927=RA90 2700K	144=14.4W/M		
			930=RA90 3000K			
			935=RA90 3500K			
			940=RA90 4000K			
			957=RA90 5700K			

ELECTRICAL PARAMETER

Data	APO 10 HE WHT	
Power(W/m W/ft)	9.6/2.9	14.4/4.4
Voltage (V)	DC24V	DC24V
Current(mA/m)	400	600
Circuit Type	CC	CC
LED Type	2835	2835
Min. Cutting Length(mm)	25mm	25mm
Life Span L80B10	>54000H	>54000H
Storage Tempt.	−40℃ /−40° F_{min} 65℃ /149° F_{max}	−40℃ /−40° F_{min} 65℃ /149° F_{max}
Ambient Tempt. *	−40℃ /−40° F_{min} 65℃ /149° F_{max}	−40℃ /−40° F_{min} 65℃ /149° F_{max}

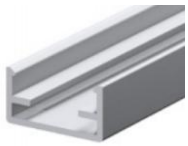
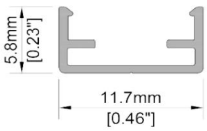
* Exceeding the maximum ratings will reduce expected life time or destory the LED strip.

OPTICAL PARAMETER

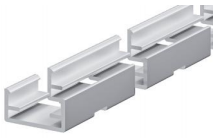
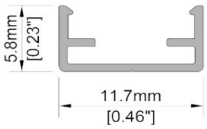
Item Code	Finished Product					LED	
	Wattage/m	CCT	CRI	Lumen/m	Lumen/ft	Color Tolerance	Bin
APO10HE-24-922-096	9.6W	2200K	Ra≥90	840LM	256LM	<2SDCM	OneBinOnly
APO10HE-24-927-096	9.6W	2700K	Ra≥90	920LM	280LM	<2SDCM	OneBinOnly
APO10HE-24-930-096	9.6W	3000K	Ra≥90	970LM	296LM	<2SDCM	OneBinOnly
APO10HE-24-935-096	9.6W	3500K	Ra≥90	960LM	293LM	<2SDCM	OneBinOnly
APO10HE-24-940-096	9.6W	4000K	Ra≥90	980LM	299LM	<2SDCM	OneBinOnly
APO10HE-24-957-096	9.6W	5700K	Ra≥90	970LM	296LM	<2SDCM	OneBinOnly
APO10HE-24-922-144	14.4W	2200K	Ra≥90	1260LM	384LM	<2SDCM	OneBinOnly
APO10HE-24-927-144	14.4W	2700K	Ra≥90	1380LM	421LM	<2SDCM	OneBinOnly
APO10HE-24-930-144	14.4W	3000K	Ra≥90	1455LM	444LM	<2SDCM	OneBinOnly
APO10HE-24-935-144	14.4W	3500K	Ra≥90	1440LM	439LM	<2SDCM	OneBinOnly
APO10HE-24-940-144	14.4W	4000K	Ra≥90	1470LM	448LM	<2SDCM	OneBinOnly
APO10HE-24-957-144	14.4W	5700K	Ra≥90	1455LM	444LM	<2SDCM	OneBinOnly

OPTIONAL ACCESSORIES

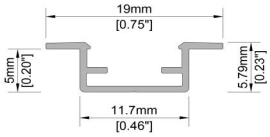
Aluminium Profile

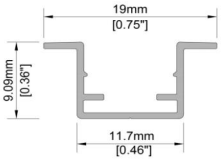
Order Code	AC107-AP - SA
Dimension	1000x11.7x5.8mm/ 39.37"x0.46"x0.23"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs curved aluminium profile for surface application	

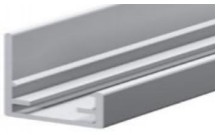
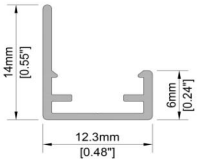

Order Code	AC107-CR
Dimension	1000x11.7x5.8mm/ 39.37"x0.46"x0.23"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs curved aluminium profile for surface application	

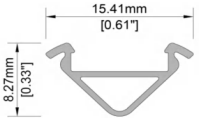
Order Code	AC107-AP-EA
Dimension	1000x11.7x5.8mm/ 39.37"x0.46"x0.23"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs aluminium profile for embeded application	

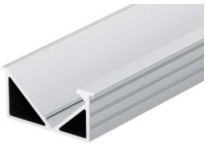
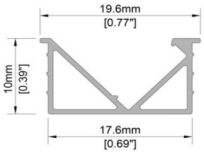
Order Code	AC107-AP-SF
Dimension	1000x11.7x9.1mm/ 39.37"x0.46"x0.36"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs aluminium profile for concealed embeded application	

Order Code	AC107-AP - BA
Dimension	1000x12.3x14mm/ 39.37"x0.48"x0.55"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs aluminium profile for baffle application	

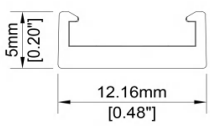



Order Code	AC107-VP
Dimension	1000x8.27x15.41mm/ 39.37"x0.33"x0.61"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs triangular corner profile with 2 clips and 2 screws	

Order Code	AC107-45P
Dimension	1000x0.69x10mm/ 39.37"x17.6"x0.39"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs 45° profile for embedded application	

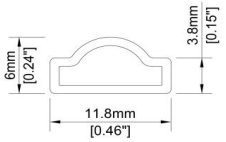
Clips

Order Code	AC085-10
Dimension	14x12x5mm/ 0.55"x0.47"x0.20"(LxWxH)
Material	PC
Color	Transparent
1Bag = 1 clip + 1 screw	

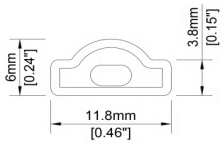
OPTIONAL ACCESSORIES

Closed End Cap

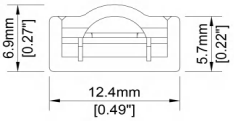


Order Code	AD110
Dimension	11.8x4.5x6mm/ 0.46"x0.18"x0.24"(LxWxH)
Material	silicone
Color	white
1pcs closed endcap	

Connector



Order Code	AD110-2
Dimension	11.8x6x15mm/ 0.47"x0.24"x0.59" (LxWxH)
Material	Silicone
Color	white
1pcs cap+20cm cable (Front Cable Entry)	

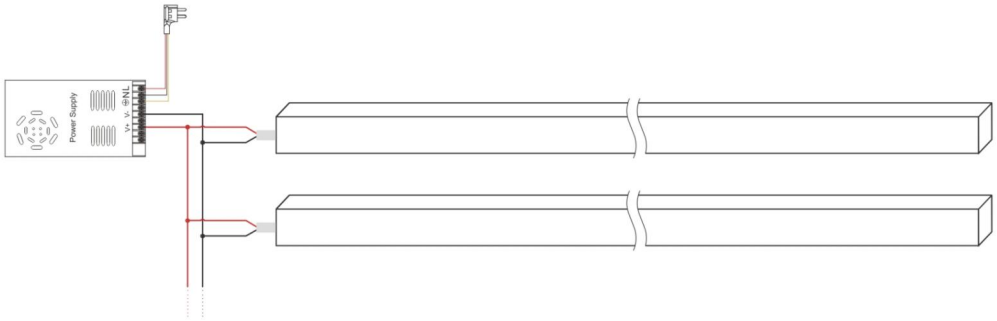


Order Code	AC085-201
Dimension	12.4x6.9x20.5mm/ 0.49"x0.27"x0.81"(LxWxH)
Material	PC
Color	Transparent
Strip to Cable Connector, 2pin with 15cm cable	

Installer

Order Code	AF002-U1
Dimension	183x36x26mm/ 7.2"x1.42"x1.42"(LxWxH)
Material	Wooden handle
Color	Wood color
1pcs APO 10 installer (wooden handle)	

Single – End Wiring Diagram



1. Our constant voltage and constant current just means the circuit deisgn, all JRLite neon flex and led strip use constant volatge drivers.

2. Utilize a constant voltage power supply with appropriate output voltage. The rated wattage of the power supply should be 20% higher than the actual power consumption of the neon flex and led strip to extend its lifespan.

3. Dimming frequency is from 100Hz to 2000Hz. 500Hz is recommended.

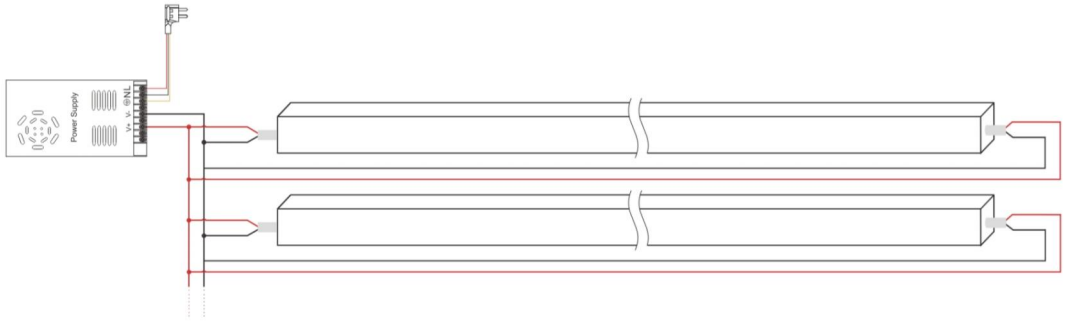
- Please ensure the cable length is not more than the table "Max. Cable Length" according to LED strip length and its wire gauge.
- Please ensure the LED strip length is less than the table "Max. Strip Length".

Max. Strip Length_Single –end feed in

Cable Entry Ttype

Type	Fast Connector	Integrated cable entry	Silicone cable entry
IP Rating	IP20	IP65	IP65
Cable Gauge	30cm 20AWG*2 Black&Red wire	30cm 20AWG*2 Black&Red wire	30cm 20AWG*2 Black&Red wire
APO 10 HE WHT– 9.6W	15m/49.2ft	15m/49.2ft	15m/49.2ft
APO 10 HE WHT– 14.4W	10m/32.8ft	10m/32.8ft	10m/32.8ft

Double – End Wiring Diagram



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2. Utilize a constant voltage power supply with appropriate output voltage. The rated wattage of the power supply should be 20% higher than the actual power consumption of the neon flex and led strip to extend its lifespan.

3. Dimming frequency is from 100Hz to 2000Hz. 500Hz is recommended.

4.When double ended power supply is used, it should be connected to the same driver and cannot be connected to two power driver.

- Please ensure the cable length is not more than the table "Max. Cable Length" according to LED strip length and its wire gauge.
- Please ensure the LED strip length is less than the table "Max. Strip Length".

Max. Strip Length_Double –end feed in

Cable Entry Ttype

Type	Fast Connector	Integrated cable entry	Silicone cable entry
IP Rating	IP20	IP65	IP65
Cable Gauge	30cm 20AWG*2 Black&Red wire	30cm 20AWG*2 Black&Red wire	30cm 20AWG*2 Black&Red wire
APO 10 HE WHT– 9.6W	28m/91.9ft	28m/91.9ft	28m/91.9ft
APO 10 HE WHT– 14.4W	18m/59.0ft	18m/59.0ft	18m/59.0ft

MAX. CABLE LENGTH

INPUT: DC24V

Item Code	Strip Length (m)	Max. Cable Length							
		0.52mm² (**Default**)		0.81mm²		1.31 mm²		2.08 mm²	
		20AWG		18AWG		16AWG		14AWG	
		m	ft	m	ft	m	ft	m	ft
APO 10 HE WHT-9.6W	1	85	278.8	130	426.4	210	688.8	320	1049.6
	2	55	180.4	85	278.8	120	393.6	200	656
	3	40	131.2	60	196.8	98	321.44	140	459.2
	4	30	98.4	46	150.88	75	246	120	393.6
	5	24	78.72	36	118.08	55	180.4	90	295.2
	6	20	65.6	30	98.4	45	147.6	72	236.16
	7	15	49.2	25	82	38	124.64	55	180.4
	8	13	42.64	20	65.6	32	104.96	47	154.16
	9	11	36.08	16	52.48	25	82	38	124.64
	10	8	26.24	12	39.36	20	65.6	27	88.56
	11	6	19.68	10	32.8	16	52.48	20	65.6
	12	4	13.12	8	26.24	12	39.36	15	49.2
	13	3	9.84	5	16.4	8	26.24	10	32.8
	14	2	6.56	3	9.84	5	16.4	7	22.96
	15	1	3.28	2	6.56	3	9.84	4	13.12

Item Code	Strip Length (m)	Max. Cable Length							
		0.52mm² (**Default**)		0.81mm²		1.31 mm²		2.08 mm²	
		20AWG		18AWG		16AWG		14AWG	
		m	ft	m	ft	m	ft	m	ft
APO 10 HE WHT-14.4W	1	55	180.4	90	295.2	130	426.4	200	656
	2	30	98.4	50	164	80	262.4	130	426.4
	3	20	65.6	35	114.8	55	180.4	85	278.8
	4	15	49.2	25	82	38	124.64	60	196.8
	5	12	39.36	20	65.6	32	104.96	45	147.6
	6	10	32.8	15	49.2	23	75.44	30	98.4
	7	8	26.24	12	39.36	15	49.2	20	65.6
	8	6	19.68	8	26.24	10	32.8	12	39.36
	9	3	9.84	6	19.68	7	22.96	8	26.24
	10	1.5	4.92	3	9.84	4.5	14.76	6	19.68

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LEDLINE APO 15 SPI RGBW

The Future Star of Indoor Lighting

Advantages :

- SPI control mode and 10m long run design solution optional for more flexible application.

-Ultra-thin and elegant design with totally dot-free visual performance.

-Strong reliability due to the co-extrusion technique. High light transmittance, anti-corrosion&anti -UV.

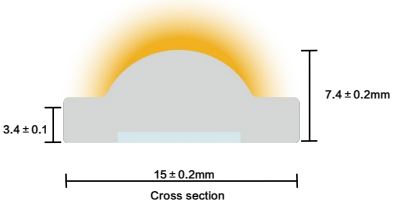
-Uniform light with IP65 rate suitable for indoor and outdoor decorative lighting, architectural outline lighting, etc.

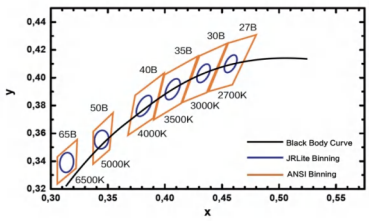
IP65 | UV PROTECTED | RESISTANT TO SOLVENTS | 20m/reel available | L80B10 >36000H | 3Yr. WARRANTY | Top view

UL | c UL | TÜV SÜD | CE | RoHS | REACH | CB

PRODUCT DATA

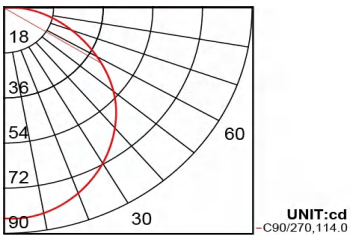
Product Name	LEDLINE APO 15 SPI RGBW
IP rated	IP65
Size	15*7.4mm(W*H)
Min. Bending Diameter	60mm
Bending Direction	Top Bending
Min. Cutting Length	166.66mm
Beam Angle	120°
Tensile-instantaneous	40kg.f
Bending-extreme	1250 times
Twist-extreme	3200 times
Max. Production Length	20m





ONE BIN ONLY
Color consistency
Today and tomorrow

APO15-24-SPI-RGBW930-095



ORDER CODE

SERIES NAME	BENDING DIR	VOLTAGE	CONTROL MODE	RA CCT	WATTAGE	LENGTH	CABLE ENTRY
APO 15	T	24=DC24V	SPI	RGBW927=RGBW2700K RA90	095=9.5W/M	05000=5M	F=FRONT
				RGBW930=RGBW3000K RA90			
				RGBW940=RGBW4000K RA90			

ELECTRICAL PARAMETER

Data	APO 15 SPI RGBW
Power(W/m W/ft)	9.5/5.03
Voltage (V)	DC24V
Current(mA/m)	395
Circuite Type	CC
LED Type	COB
Min. Cutting Length(mm)	166.67
Pixel/M	6
Control Mode	SPI
Life Span L80B10	>36000H
Storage Tempt.	-40℃ /-40° F_{min} 65℃ /149° F_{max}
Ambient Tempt. *	-40℃ /-40° F_{min} 65℃ /149° F_{max}

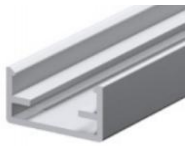
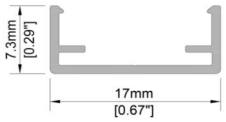
*** Exceeding the maximum ratings will reduce expected life time or destory the LED strip.**

OPTICAL PARAMETER

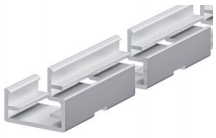
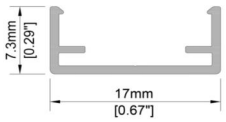
Item Code	Finished Product					LED	
	Wattage/m	Color	Wavelength	Lumen/m	Lumen/ft	Wavelength Tolerance	Bin
APO15-24-SPI-RGBW-095	3.0W	RED	620-630nm	40LM	12LM	<3nm	OneBinOnly
APO15-24-SPI-RGBW-095	3.0W	GREEN	525-535nm	160LM	49LM	<3nm	OneBinOnly
APO15-24-SPI-RGBW-095	3.0W	BLUE	455-465nm	25LM	8LM	<3nm	OneBinOnly
APO15-24-SPI-RGBW-095	3.0W	W=2700K	Ra≥90	100LM	30LM	<5SDCM	OneBinOnly
APO15-24-SPI-RGBW-095	3.0W	W=3000K	Ra≥90	105LM	32LM	<5SDCM	OneBinOnly
APO15-24-SPI-RGBW-095	3.0W	W=4000K	Ra≥90	120LM	37LM	<5SDCM	OneBinOnly
APO15-24-SPI-RGBW-095	9.5W	RGBW (3000K)	Ra≥90	330LM	101LM	/	OneBinOnly

OPTIONAL ACCESSORIES

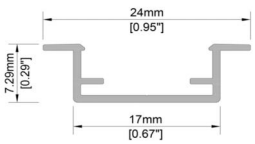
Aluminium Profile

Order Code	AC207-AP-SA
Dimension	1000x17x7.3mm/ 39.37"x0.67"x0.29"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs curved aluminium profile for surface application	

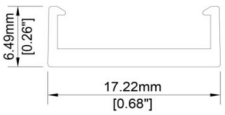




Order Code	AC207-CR
Dimension	1000x17x7.3mm/ 39.37"x0.67"x0.29"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs curved aluminium profile for surface application	

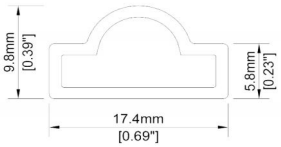
Order Code	AC207-AP-EA
Dimension	1000x17x7.3mm/ 39.37"x0.67"x0.29"(LxWxH)
Material	aluminium
Color	silver
1mtr/pcs aluminium profile for embeded application	

Clips

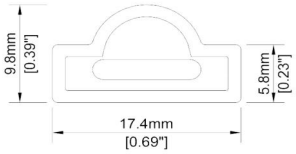
Order Code	AC085-15
Dimension	25x17.2x6.5mm/ 0.98"x0.68"x0.26"(LxWxH)
Material	PC
Color	Transparent
1Bag = 1 clip + 1 screw	

Closed End Cap

Order Code	AD115
Dimension	8x17.4x9.8mm/ 0.31"x0.69"x0.39" (LxWxH)
Material	silicone
Color	white
1pcs closed endcap	

Connector

Order Code	AD110-3
Dimension	20x17.4x9.8mm/ 0.79"x0.69"x0.39" (LxWxH)
Material	Silicone
Color	white
1pcs cap+20cm cable (Front Cable Entry)	

Installer

Order Code	AF002-U2
Dimension	183x36x26mm/ 7.2"x1.42"x1.42"(LxWxH)
Material	Wooden handle
Color	Wood color
1pcs APO 15 installer (wooden handle)	

OPTIONAL ACCESSORIES

Driver

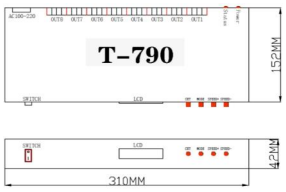
Order Code	ELG-240-24B-3Y
Dimming	3 in 1 dimming: 0-10VDC, 10V PWM Singal, Resistance
Power	24V/10A，240W
IP rated	IP67

Order Code	ELG-240-24DA-3Y
Dimming	DALI dimming
Power	24V/10A，240W
IP rated	IP67

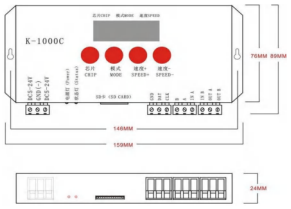
**Note: Our constant voltage and constant current just means the circuit deisgn, all JRLite neon flex and led strip use constant volatge drivers.*

Controller

Order Code	SC + R9
Power Input	5-24Vdc
Max Current Load	8A
Max Output Power	96W/192W (12V/24V)
Output signal	SPI (DATA/CLK)
Max Output pixel	1024 Pixel
Available	SPI RGB/RGBW

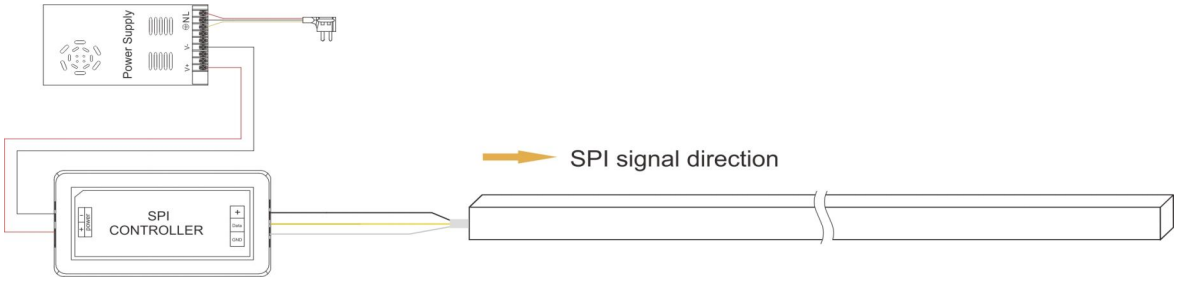


Order Code	T-790K
Power Input	AC 100-240Vdc
Gray level	32~65536 degree Gray control, Gamma correction procession handle
Output signal	Standard DMX512 extension protocol; SPI/TTL Serial Protocol; ArtNet Protocol;
Output port	8
Each port pixel	512/1024 pixels
Other	Supports Madrix software control, with a maximum of 6 signal outputs per port
Available CCT	WHT/Tunable WHT/RGB/RGBW/ RGBWW; DMX; SPI



Order Code	K-1000C
Power Input	5-24Vdc
Gray level	32~65536 degree Gray control, Gamma correction procession handle
Output signal	Standard DMX512 protocol; SPI/TTL serial protocol.
Output port	1
Each port pixel	512/2048Pixels
Available CCT	WHT/Tunable WHT/RGB/RGBW/ RGBWW; DMX; SPI

Single – End Wiring Diagram



1. Our constant voltage and constant current just means the circuit deisgn, all JRLite neon flex and led strip use constant volatge drivers.

2. Utilize a constant voltage power supply with appropriate output voltage. The rated wattage of the power supply should be 20% higher than the actual power consumption of the neon flex and led strip to extend its lifespan.

3. Dimming frequency is from 100Hz to 2000Hz. 500Hz is recommended.

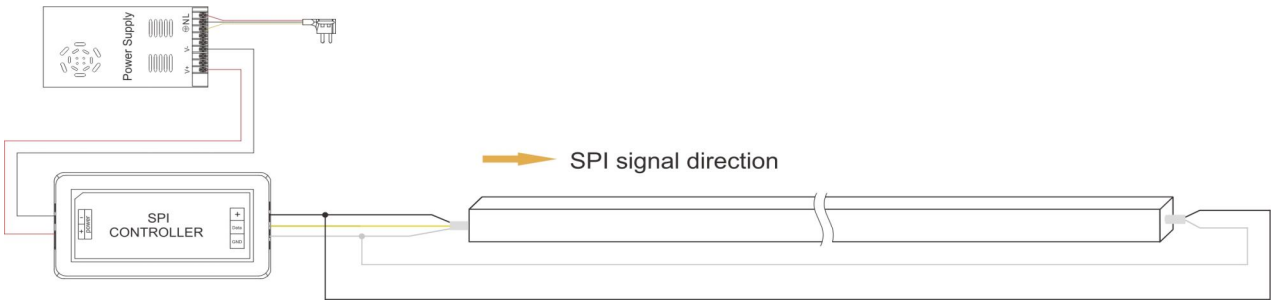
- Please ensure the cable length is not more than the table "Max. Cable Length" according to LED strip length and its wire gauge.
- Please ensure the LED strip length is less than the table "Max. Strip Length".

Max. Strip Length_Single –end feed in

Cable Entry Ttype

Type	Integrated cable entry	Silicone cable entry
IP Rating	IP65	IP65
Cable Gauge	30cm 22AWG*3 Black&Red&Yellow wire	30cm 22AWG*3 Black&Red&Yellow wire
APO 15 SPI RGBW– 9.5W	10m/32.8ft	10m/32.8ft

Double - End Wiring Diagram



1. Our constant voltage and constant current just means the circuit deisgn, all JRLite neon flex and led strip use constant volatge drivers.

2. Utilize a constant voltage power supply with appropriate output voltage. The rated wattage of the power supply should be 20% higher than the actual power consumption of the neon flex and led strip to extend its lifespan.

3. Dimming frequency is from 100Hz to 2000Hz. 500Hz is recommended.

4.When double ended power supply is used, it should be connected to the same driver and cannot be connected to two power driver.

- Please ensure the cable length is not more than the table "Max. Cable Length" according to LED strip length and its wire gauge.
- Please ensure the LED strip length is less than the table "Max. Strip Length".

Max. Strip Length_Double -end feed in

Cable Entry Ttype

Type	Integrated cable entry	Silicone cable entry
IP Rating	IP65	IP65
Cable Gauge	30cm 22AWG*3 Black&Red&Yellow wire	30cm 22AWG*3 Black&Red&Yellow wire
APO 15 SPI RGBW- 9.5W	18m/59.04ft	18m/59.04ft

MAX. CABLE LENGTH

INPUT: DC24V

Item Code	Strip Length (m)	Max. Cable Length							
		0.33mm² (Default)		0.52mm²		0.81mm²		1.31 mm²	
		22 AWG		20AWG		18AWG		16AWG	
		m	ft	m	ft	m	ft	m	ft
APO 15 SPI RGBW−9.5W	1	55	180.4	90	295.2	140	459.2	230	754.4
	2	30	98.4	45	147.6	75	246	115	377.2
	3	20	65.6	30	98.4	50	164	80	262.4
	4	15	49.2	25	82	35	114.8	60	196.8
	5	12	39.36	20	65.6	30	98.4	50	164
	6	10	32.8	15	49.2	25	82	40	131.2
	7	8	26.24	13	42.64	22	72.16	35	114.8
	8	7	22.96	12	39.36	18	59.04	30	98.4
	9	6	19.68	10	32.8	16	52.48	25	82
	10	5	16.4	8	26.24	13	42.64	20	65.6

APPLICATION

-Extensively applied in bathroom, kitchen and any wet indoor locations.
-Elegant white looking and slim design suitable for -high visual performance projects.

RELIABILITY TEST

Test Item	Test Purpose
High – low temperature test	By simulating product operation in high – and low – temperature environments, detect performance, reliability and normal – working ability under extreme temperatures.
Waterproof test	Detect product's water – proof ability to see if it can prevent water entry during different water contacts without affecting function or causing damage.
Temperature rise test	Test product – temperature rises during normal operation or specific loads to evaluate heat dissipation and thermal stability, ensuring no malfunction or performance drop from overheating.
Salt – spray test	Expose product to salt – spray to test corrosion resistance and evaluate durability and reliability in salty environments (e.g., seaside or chemically corrosive industrial areas).
Torsion test	detect its structural integrity (connection stability, enclosure and encapsulation integrity), optical performance (uniformity of light emission, brightness stability) and electrical performance (circuit conductivity, electrical insulation).
Voltage drop test	Measure the voltage drop of the circuit/component to determine that the power loss during the current – passing process meets the requirements.
Reverse polarity test	Detect its structural integrity (connection and enclosure/encapsulation), optical performance (light emission and brightness) and electrical performance (circuit and insulation).
Thermal shock test	Simulate rapid short – term temperature changes, test performance, reliability, material/structure stability under thermal shocks, determine adaptability to rapid temperature changes.
UV test	To test UV – resistance and evaluate appearance/performance/material durability changes under long – term sunlight/UV exposure.
UL	To assess product safety, ensuring that products meet relevant US safety standards and safeguarding users and the environment.
TUV	Examines products in terms of safety, quality and environment to prove that the products meet relevant German and European standard requirements.
RoHS / REACH	Ensure compliance with hazardous substance restrictions in electronic products (RoHS) and safeguard human health and the environment through comprehensive chemical substance management (REACH), respectively.
CE	To determine that products comply with relevant EU directive requirements, so as to be freely circulated in the EU market and ensure that products meet standards in terms of health, safety and environmental protection.
CB	To obtain certifications and approvals from multiple countries through one – time testing, promoting the mutual recognition of products in international trade and reducing duplicate testing.
EPD	To provide a standardized and transparent assessment of a product's environmental impact throughout its lifecycle, enabling informed decisions for sustainability and compliance.


HIGH – LOW TEMPERATURE TEST


IES DARK ROOM


WATERPROOF TEST


TORSION TEST


SALT – SPRAY TEST


UV RESISTANCE


CABLE TENSILE TEST


TENSILE TEST

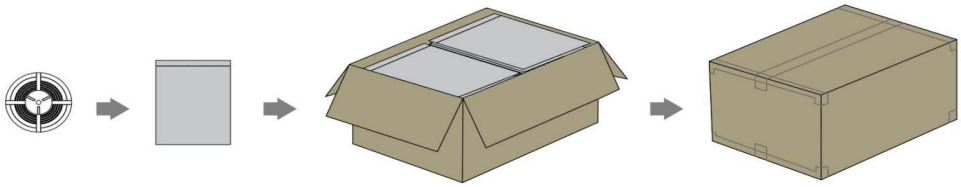
PRODUCT DIMENSION & WEIGHT

Item Code	Single Product				Package Info					
	L	W	H	Net weight	Packaging unit (Pieces/carton)	L	W	H	Volume	Gross weight
APO 10 HE -01000	1000mm	10mm	4mm	80.00g	/	/	/	/	/	/
APO 10 HE -05000	5000mm	10mm	4mm	400.00g	48pcs	690mm	260mm	280mm	50.23dm³	19200.00g
APO 10 HE -20000	20000mm	10mm	4mm	1400.00g	10pcs	690mm	260mm	280mm	50.23dm³	16000.00g

**This table data is for reference only. Please refer to the actual shipment data of the product for accuracy.*

Item Code	Single Product				Package Info					
	L	W	H	Net weight	Packaging unit (Pieces/carton)	L	W	H	Volume	Gross weight
APO 15 -01000	1000mm	15mm	7mm	95.00g	/	/	/	/	/	/
APO 15 -05000	5000mm	15mm	7mm	475.00g	36pcs	690mm	260mm	280mm	50.23dm³	17100.00g
APO 15 -20000	20000mm	15mm	7mm	1900.00g	6pcs	690mm	260mm	280mm	50.23dm³	17100.00g

**This table data is for reference only. Please refer to the actual shipment data of the product for accuracy.*



ADDITIONAL PRODUCT INFORMATION

▹ **Equipped with accessories:** For all Neon strip & LED strip, are suggested to be equipped with profiles or other necessary equipment accessories.

▹ **IPC 6013C:** LED strips are designed for static installations in accordance with IPC 6013C – Use A. Take material vibrations, repetitive torsion, and elongation/compression into account.

▹ **Operating environment:** If the operating environment covers a broad temperature range (such as outdoors applications) and the operating length is longer than 2 meters, the use of adequate mounting surfaces is required. Assure enough space for strip expansion and heat dissipation with increasing temperature.

▹ **Power control and supply:** Use only SELV LED drivers in accordance with applicable lighting standards and LED strip ratings. In order to safely operate JRLITE LED strips it is necessary to supply them with an electronically stabilized power supply providing protection against short circuits, overload and overheating. Please select a power control device that meets international certification requirements to ensure the installation and operation of the product.

▹ **Hydrogen sulfide:** The manufacturer is not responsible for damage due to chemical corrosion. The user must provide suitable protection against corrosive agents such as moisture and condensation and any other harmful elements/compounds. Make certain to avoid corrosive atmospheres. According to the current state of LED technology, hydrogen sulfide (H2S) causes accelerated corrosion which leads to shortened lifetime or premature failure. Sources of H2S may be rubber, foam rubber, soft-foam tapes, rubber-based sealing, natural sources (e.g. sulfur springs), etc. To avoid H2S from sulfur-vulcanized rubber use silicon-based materials or peroxide-crosslinked rubber instead. Follow the recommendations in the material datasheet of the rubber supplier.

▹ **Humidity and dust:** For applications involving exposure to humidity and dust, the strip must be protected by a fixture or housing with a suitable IP protection class.

▹ **Electrical isolation:** Always ensure electrical isolation between the LED strip and the mounting surface, especially in the vicinity of connections or cut ends.

▹ **Lifetime:** Exceeding maximum operating and storage temperature ratings can reduces the expected lifetime or even destroy the LED strip. The temperature of the LED strip must be measured at the Tc-point in accordance with EN 60598-1 under steady-state conditions, considering the worst case; drive all channels at 100 % power. Refer to the product drawing for the exact location of the Tc-point.

▹ **Installation:** Installation of LED strips and connection to the power supply must comply with all applicable electrical and safety standards.

Observe correct polarity and wiring diagrams! Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.

Only a qualified electrician may install the strip.

Handle with care and ensure that there is no physical product damage, including damage to invisible internal electronics parts.

Exceeding the maximum ratings for the operating voltage causes hazardous overload and will likely destroy the LED strip.

Never exceed the maximum operable length, including other wires.

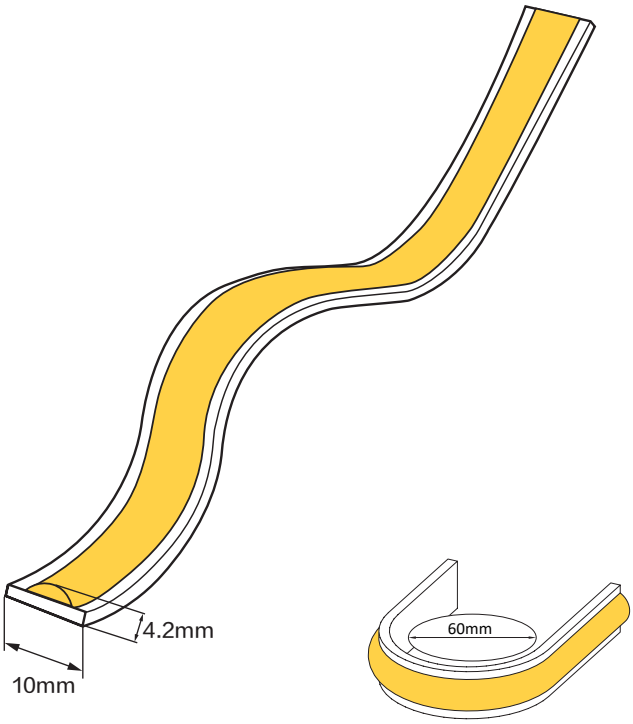
▹ **IP20 Product:** Part IP20 LED strips are equipped with a self-adhesive tape for attaching the LED strip to suitable materials, such as aluminum profiles, which must be clean and free of oil, silicone coatings, or any other dirt/dust particles. The adhesive tape is intended for single use, and if removed may damage the material to which it is stuck and the LED strip itself, which must then be scrapped. After products are equipped, it will take at least 72 hours to complete adhesion.

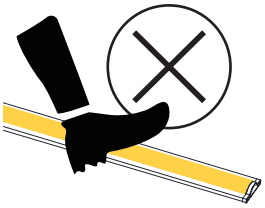
IP20 LED strips, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion. Conformal coating treatment(equipped with aluminum profiles) is possible, however materials must be selected properly in order to avoid product damage or impaired performance.
The user must also completely seal the cut parts (ends/edges), to ensure the IP level still meet customer requirements.

IP20 LED strips are ESD-sensitive; take adequate precautions during installation and operation of the products.

▹ Consult JRLITE Technical Service for further advice.

LEDLINE APO 10
USER INSTRUCTION



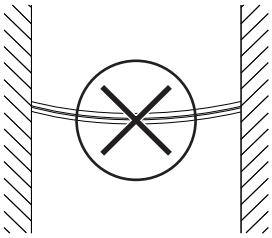


Prohibit trample

Small Angle bending
is prohibited

Do not twist
the light

Do not suspend
the power cable



Do not leave the light
hanging in the air

1. The most suitable operation temperature shall be -40˚C to 65˚C .

2. Please make sure that even during installation, the predetermined bending direction will never change. The product is TOP bending only, and it can't be twisted or side bending.

3. LEDLINE APO 10 shall not be bent sharply or it may cause product damage.

4. The minimum bending diameter is 60mm, over bending will damage and void any warranty

5. During the installatiom, LEDLINE APO 10 can not be:
-Twisted
-Dropped
-Bent at a 90° angle or bent at all
-Sagging/Hanging down

6. For installation, 3ways for your selection:
- Back tape
- Mounting clips
- Aluminum profile

7. Please do not connect the LED strip beyond the maximum connecting length.

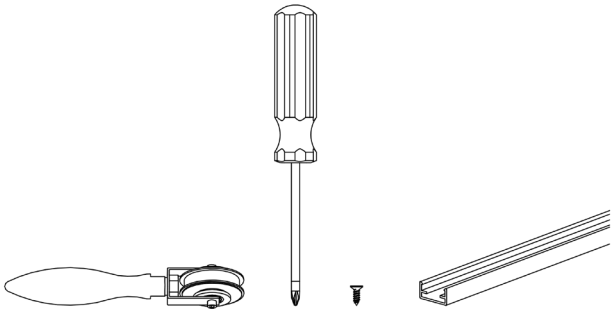
8. If LED strips are equipped with a self-adhesive tape for attaching the LED strip to suitable materials, such as aluminum profiles, which must be clean and free of oil or silicone coatings, as well as other dirt/dust particles. The adhesive tape is intended for single use and if removed may damage the material to which it is stuck and the LED module itself, which must then be scrapped.

Warranty:

- All LED strip are warranted to be free from defects in product itself from the date of purchase.
- Within this period, we, at its sole option, repair or replace any components which fail from correct use. Such repairs or replacement will be made at no charge to the customer for parts only, provided that the customer shall be responsible for transportation cost of the goods.
- This warranty does not cover failures due to abuse, misuse, improper handling, act of nature, negligence, normal wear, accidental damage, modifications or repairs made by the purchaser or incorrect voltage conditions.

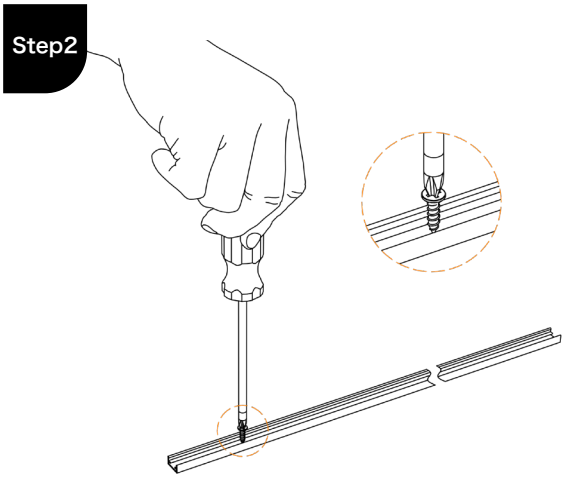
Surface-mounted Profile: AC107-AP-SA

Step1



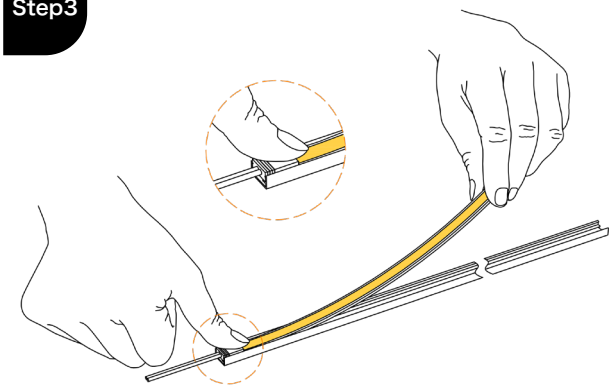
Preparation: Gather all tools and materials.

Step2



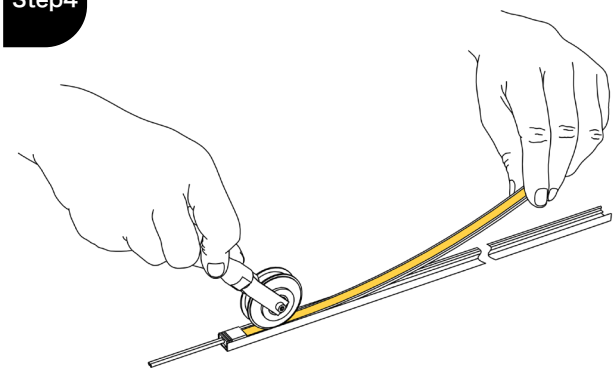
Use screws to secure the profile to the needed installation surface.

Step3

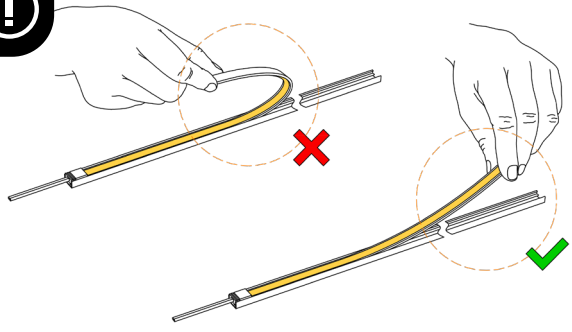


Install the LED strip into the profile. Use your thumb to first fix the starting end of the strip (with wires).

Step4



Use the roller(AF002-1) to gradually secure the LED strip into the profile.

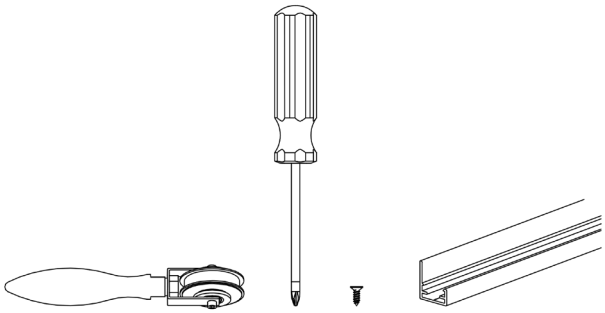


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

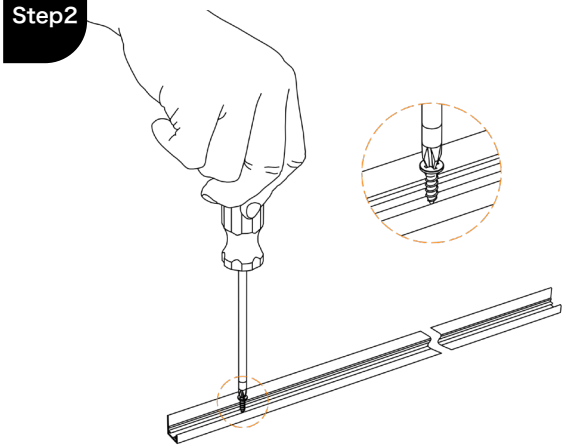
Baffle Profile: AC107-AP-BA

Step1



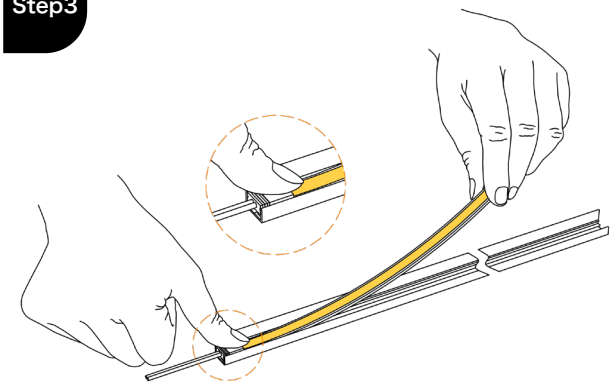
Preparation: Gather all tools and materials.

Step2



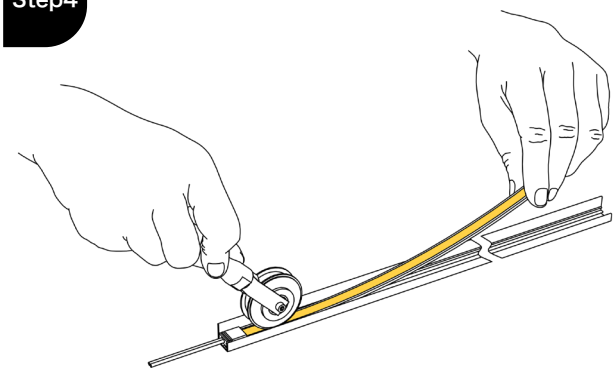
Use screws to secure the profile to the needed installation surface.

Step3

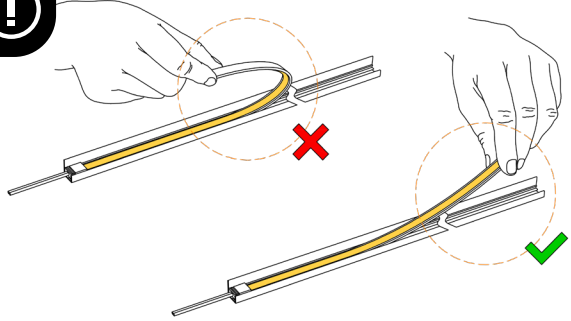


Install the LED strip into the profile. Use your thumb to first fix the starting end of the strip (with wires).

Step4



Use the roller(AF002-1) to gradually secure the LED strip into the profile.

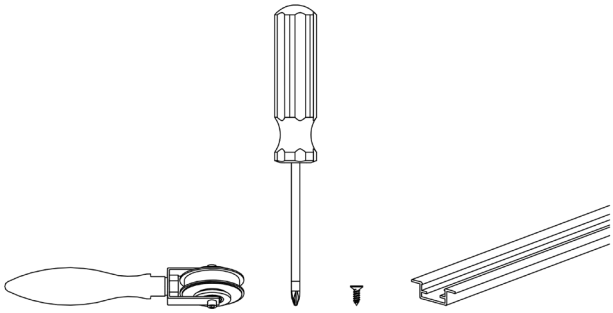


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

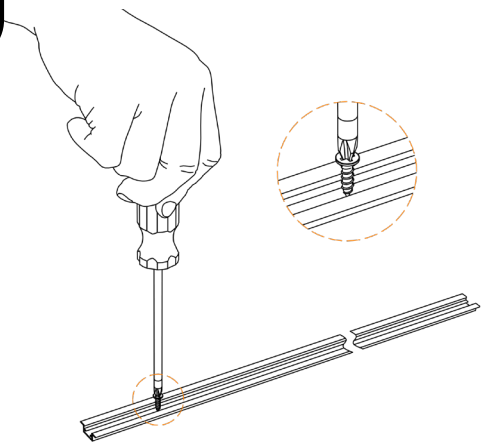
Embeded Profile: AC107-AP-EA

Step1



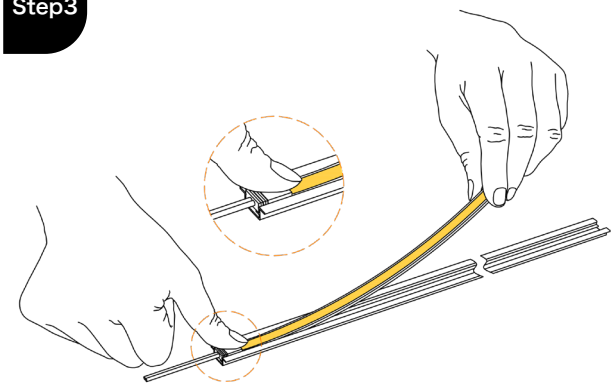
Crave a groove on the installation surface (e.g., wood or wall) with the exact dimensions of the profile.

Step2



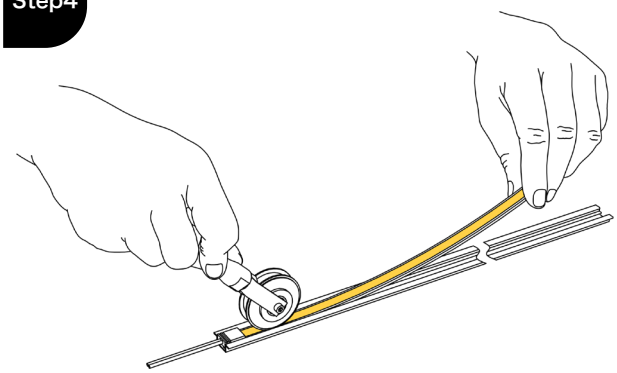
Use screws to secure the profile to the grooved installation surface.

Step3

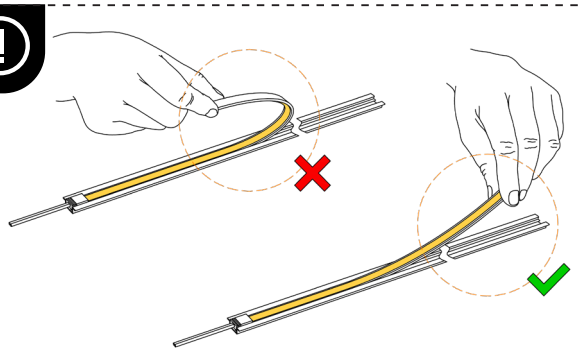


Install the LED strip into the profile. Use your thumb to first fix the starting end of the strip (with wires).

Step4



Use the roller(AF002-1) to gradually secure the LED strip into the profile.

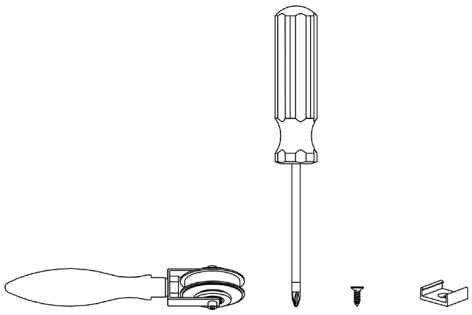


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

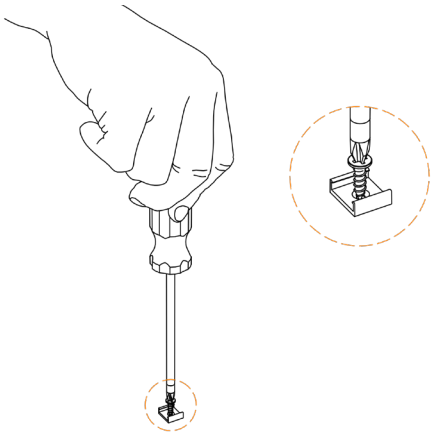
Clip: AC085-10

Step1



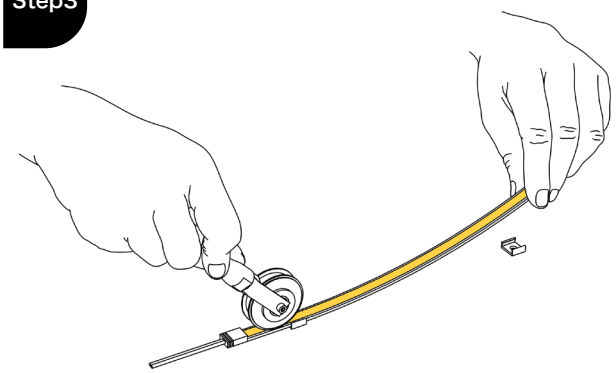
Preparation: Gather all tools and materials.

Step2



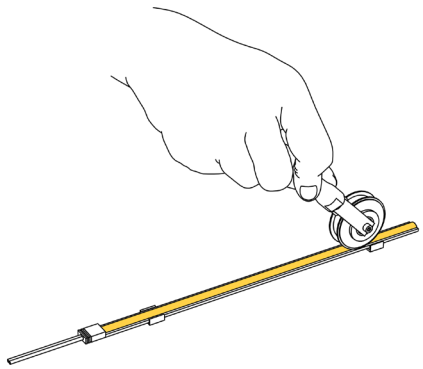
Use screws to secure the PC clip to the needed installation surface.

Step3

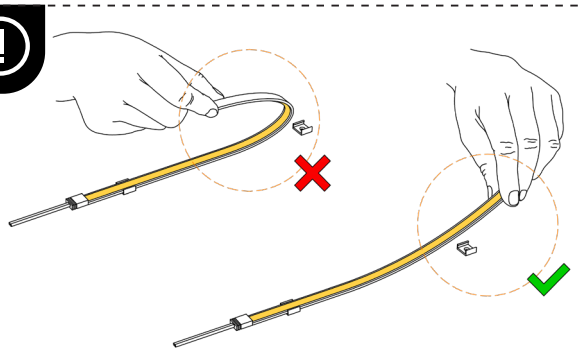


Use the roller(AF002-1) to fix the LED strip into the clip.

Step4



Use the roller(AF002-1) to fix the LED strip into the clip.

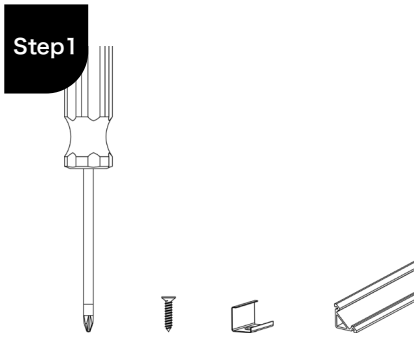


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

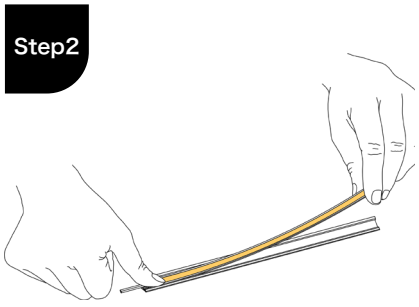
Curved Profile: AC107-VP

Step1



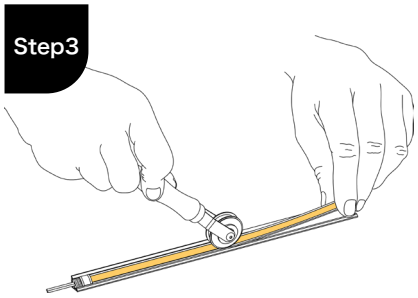
Preparation: Gather all tools and materials.

Step2



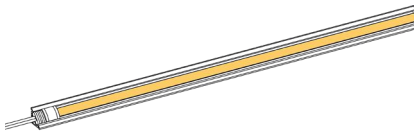
Install the LED strip into the profile. Use your thumb to first fix the starting end of the strip (with wires).

Step3



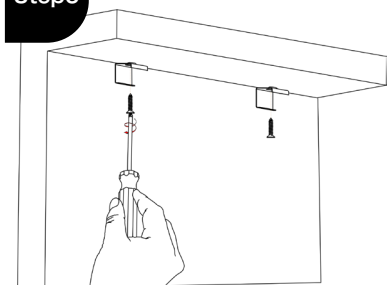
Use the roller(AF002-1) to gradually secure the LED strip into the profile.

Step4



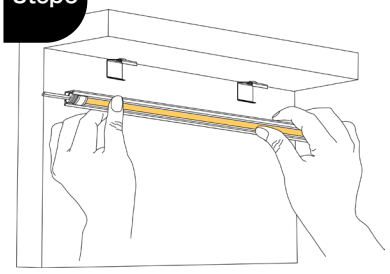
Ensure that the strip is parallel to the profile and installed smoothly in place (as shown in the figure).

Step5



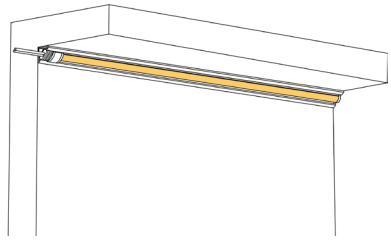
Fix the clips to the position where the profile needs to be installed.

Step6

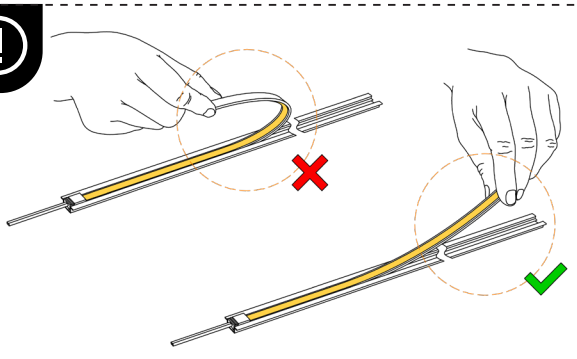


Insert the profile into the clips.

Step7



The installation is complete as shown in the figure.

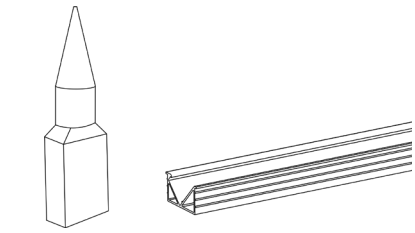


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

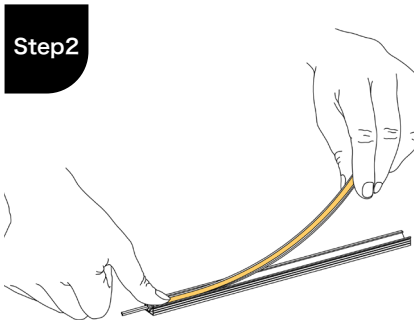
Strip to Cable Connector: AC107-45P

Step1



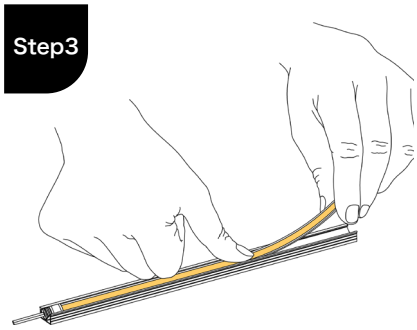
Preparation: Gather all tools and materials.

Step2



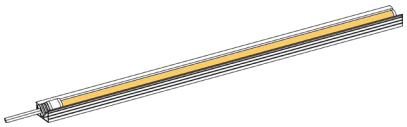
Install the LED strip into the profile. Use your thumb to first fix the starting end of the strip (with wires).

Step3



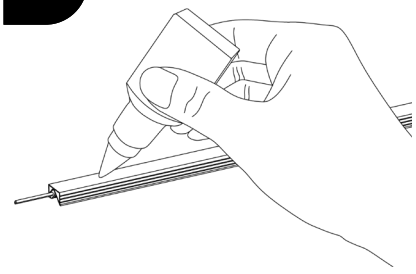
Press the LED strip into the profile with your thumb.

Step4



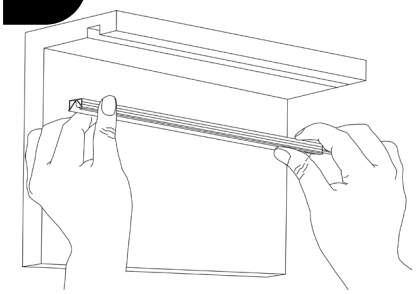
Ensure that the strip is parallel to the profile and installed smoothly in place (as shown in the figure).

Step5



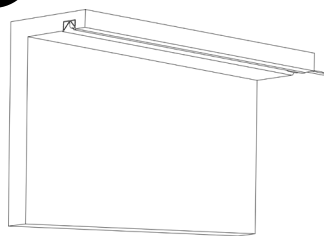
Apply glue to the back of the profile.

Step6

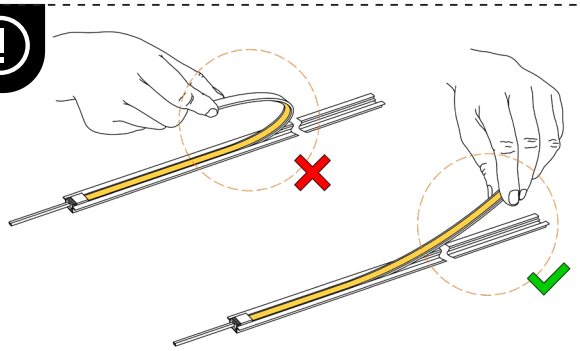


Insert the profile into the slot.

Step7



The installation is complete as shown in the figure.

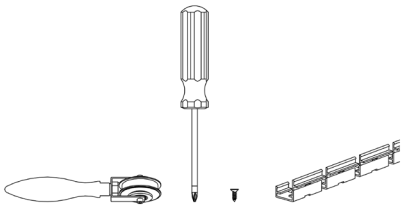


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

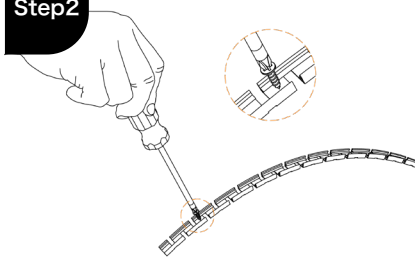
Curved Profile: AC107-CR

Step1



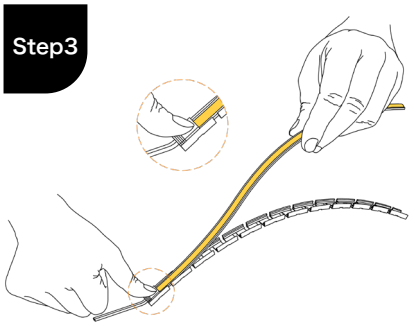
Preparation: Gather all tools and materials.

Step2



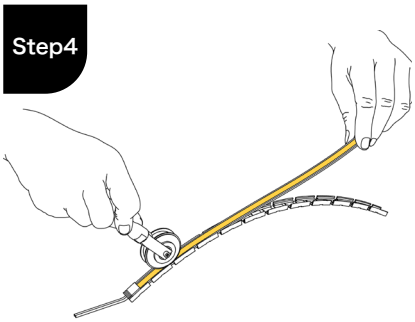
Select the curved installation surface. Bend the profile to fit tightly against the surface and secure it with screws.

Step3



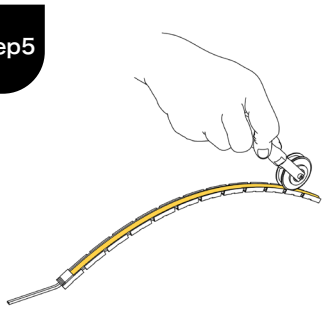
Use your thumb to insert the LED strip into the starting end of the curved profile.

Step4

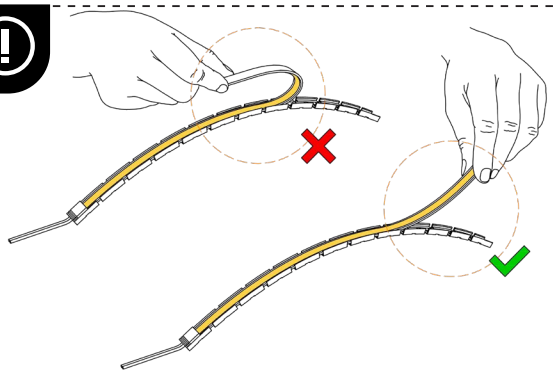


Secure the strip along the profile using the roller(AF002-1) tool.

Step5



Ensure both the upper and lower silicone parts of the strip are fully seated in the profile.

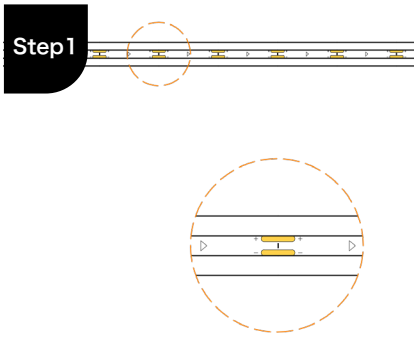


1、When removing the LED strip from profile, avoid pulling it out directly.

2、The LED strip must not have adhesive backing when using profiles installation method.

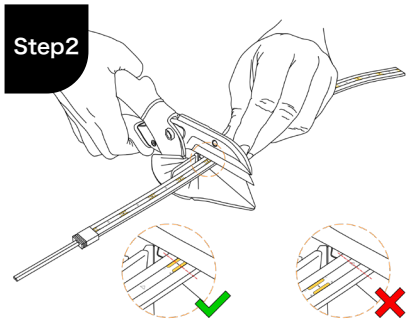
Strip to Cable Connector: AC085-201

Step1



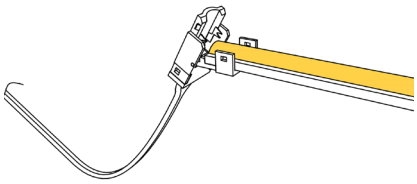
Locate the cutting marks (common error: cutting at solder points).

Step2



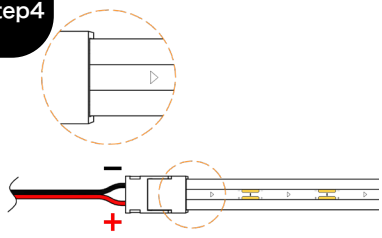
Cut along the marked lines using scissors.

Step3



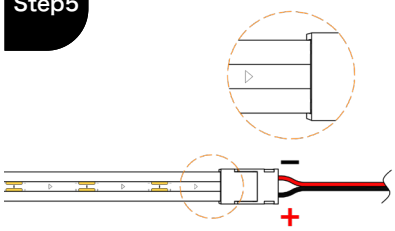
Insert the LED strip into the connector until fully seated

Step4



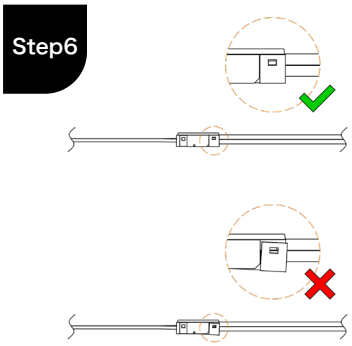
Ensure the connector is on the left side of the LED strip , which is opposite to the direction indicated by the triangle. The polarity of the LED strip is align with the connector: the red wire is "+" and the black wire is "-".

Step5



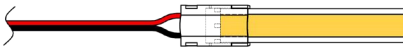
If the connector needs to be connected to the right side of the LED strip, which is the same direction as the triangle indication.The polarity of the LED strip will be opposite to the connector: the red wire is "-" and the black wire is "+".

Step6



Press down firmly on the clips until heard two "klick"

Step7



Test the LED strip with a DC24V power supply (red to "+", black to "-").

Step8

If the connector needs to be connected to the right side of the LED strip, test the LED strip with a DC24V power supply (red to "-", black to "+").


CHANEL

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