

COB-480 LED/m-24V-10MM LED STRIP

PRODUCT PHOTO



Key Feature

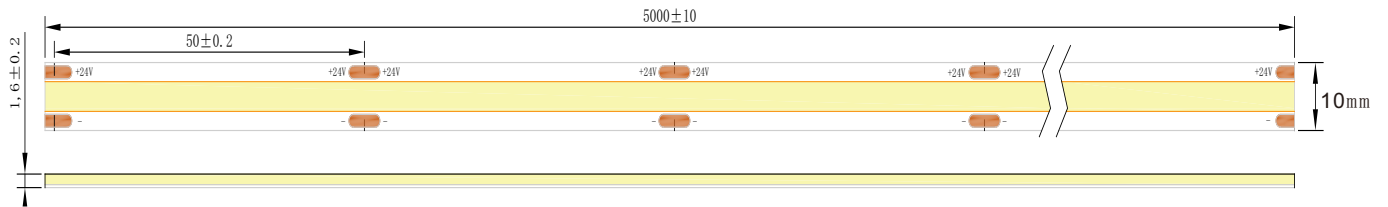
- ◆ Linear Lighting - Dotfree
- ◆ High Efficiency: 110Lm/w
- ◆ 50,000 hours Lifetime, 5 years warranty
- ◆ CRI Option: Ra>80, Ra>90, Ra>95+
- ◆ Only one Bin, SDCM<3, or SDCM<5 available

<div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">2700K</div> <small>WW-2700K</small>	<div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">3000K</div> <small>WW-3000K</small>	<div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">4000K</div> <small>NW-4000K</small>	<div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">6000K</div> <small>CW-6000K</small>	<div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">9000K</div> <small>CW-9000K</small>
<div style="border: 1px solid black; padding: 5px; border-radius: 10px;">100 Lm/w High Efficiency</div>	<div style="border: 1px solid black; padding: 5px; border-radius: 10px;">90+ High CRI</div>	<div style="border: 1px solid black; padding: 5px; border-radius: 10px;">5 years warranty Indoor only</div>		



## Drawing:

Item Code: COB-24V-14W-10MM-480 LED/m



### Notice:

PCB: 2 OZ ( $\pm 1$  OZ); customized 3 OZ is available!

Size of each section is 50mm (1.92"), and cutting at "scissors symbol" place.

LED Strip length's length tolerance is  $\pm 0.2\%$ mm, width tolerance is  $\pm 0.2$ mm.

## Optical

LED type:	LED Chips (San-An)
Color rendering index:	Ra>90+
CCT Range:	2700K / 3000K / 4000K / 6000K
Irritation angle:	120°
Light Efficiency:	110 Lm/w
Lumen output/meter:	1540Lm/m

## Electric (24V)

Input current/m:	0.58A/m
Input Voltage:	DC 24V
Voltage Power/m:	14.0W/m
Static Electricity:	1000V (ESD)
LEDs/meter:	480LEDs/m
Size of section:	50mm
LEDs of section:	24 LEDs

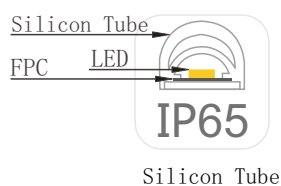
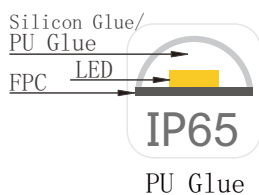
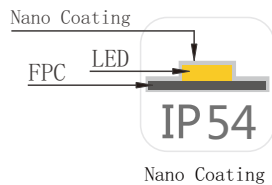
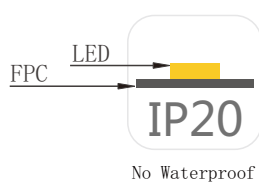
## Others

Energy grade:	A+
Warranty:	5years
Working hour:	50,000hrs lifetime for Tc<70° C
Working temperature:	-20°C ~ +45°C
Working humidity:	40%-70%RH
Measurement:	L5000*W10mm (16ft*0.4in)
Waterproof Rate:	IP-20

## Descriptions:

- ◆ LED Strip can be used in many kinds of places as decorative lighting/backlight/, such as Ceiling trough, Staircase, Hall walkway, Billboard, Advertising sign, Bridge, Shopwindow, Cabinet etc. ;
- ◆ LED Project Strip can be 20m/roll, or 30m/roll. 100% of the lamps will be tested and keep lighting for 24h testing its quality reliability, and we also test it temperature after 24 hours' s lighting;
- ◆ We can provide with different Custom products, such as printing Customer LOGO on FPC, Custom Aluminum Foil Bag Custom carton box/connector/DC cable/, Customs FPC design/color/width etc.

## Waterproof Rate :



### IP Rate Description :

IP20: Indoor use

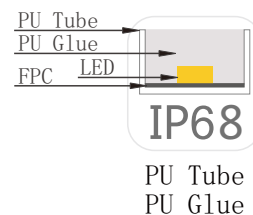
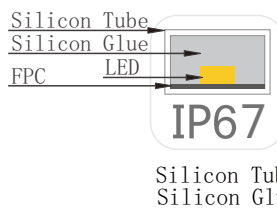
IP54 Nano: No Color shift with high Color Consistency

IP65 PU: No Lead and mercury, Strong adhesion

IP65 Silicon: Anti-UV ability, never become yellow

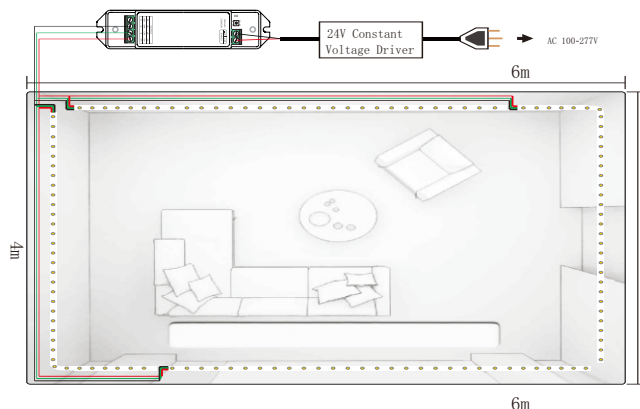
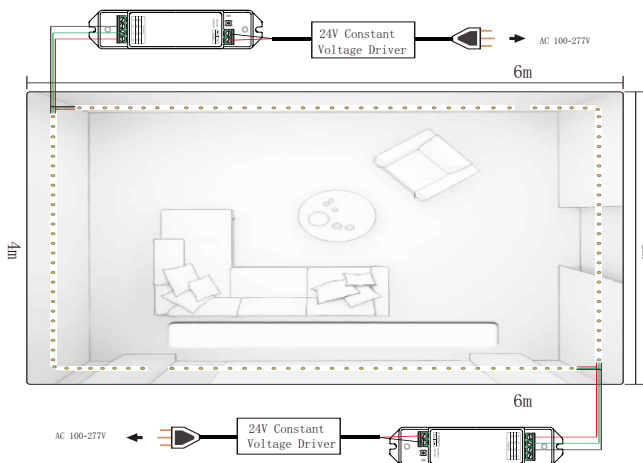
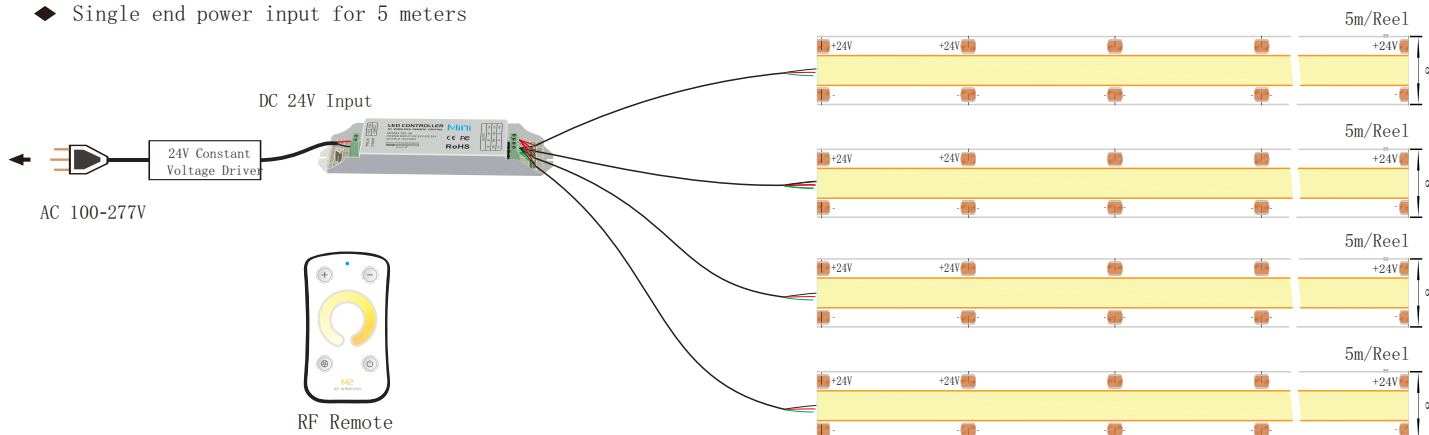
IP67: Silicon glue and mercury-free, Strong adhesion

IP68: PU glue with Anti-UV, never change color



## Wiring diagram application :

◆ Single end power input for 5 meters



# 3M Adhesive Tape



3M 200 LSE Type  
(Economy Type)



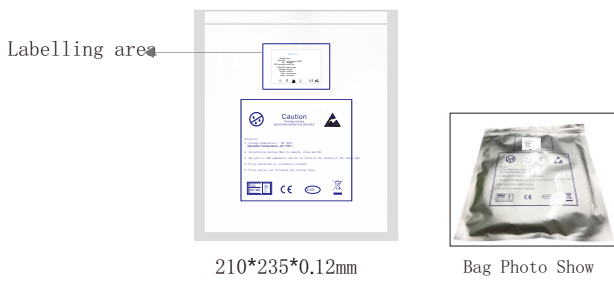
3M 300 LSE Type  
(Mid-quality Type)



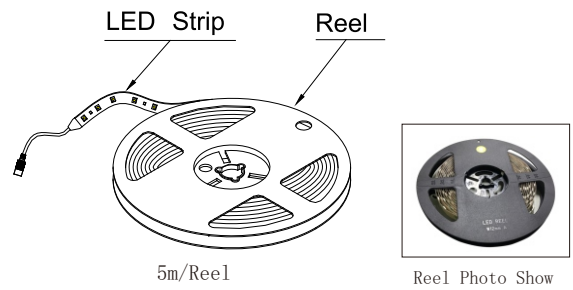
3M VHB RED  
(High-quality Type)

## Packaging

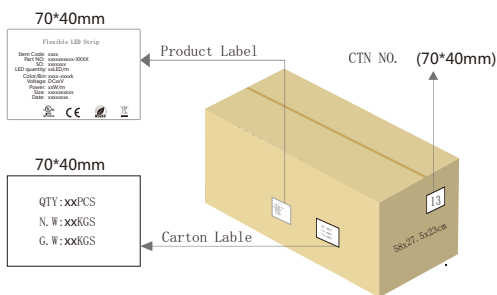
### Aluminium foil bag



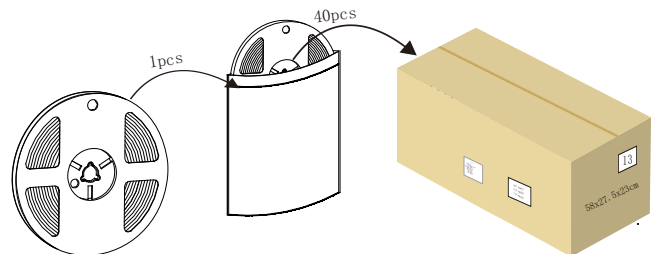
### Plastic reel



### Carton box



### Packing Number



Carton box size: 58x36x23cm

400M/carton (80 rolls \* 5m/roll)

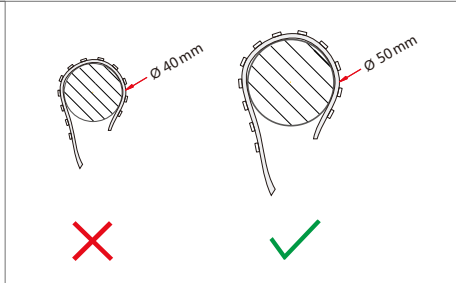
10.0KG/carton

## Strip Code :

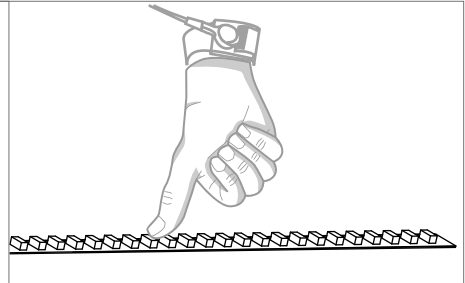
Product series	Item code	Number of LED (m)	Voltage (DC)	Power/watt (W/m)	CCT (K)	CRI (Ra)	Lumens Output (Lm/m) (Lm/W)	IP Grade
10mm COB	COB-480-24V-W10-2700K	480LEDs	24V	14.0W	2700K	>90+	1382Lm (98.7LM/W)	IP-20
	COB-480-24V-W10-3000K	480LEDs	24V	14.0W	3000K	>90+	1459Lm (104.2LM/W)	IP-20
	COB-480-24V-W10-4000K	480LEDs	24V	14.0W	4000K	>90+	1590Lm (113.5LM/W)	IP-20
	COB-480-24V-W10-6000K	480LEDs	24V	14.0W	6000K	>90+	1614Lm (115.3LM/W)	IP-20
	COB-480-24V-W10-9000K	480LEDs	24V	14.0W	9000K	>70+	1632Lm (116.6LM/W)	IP-20

## Cautions:

≤50 mm diameter of wrapped object prohibited



Touching LED, pls wear the electrostatic ring for avoiding ESD



## Safety Information

Application notes for led flexiabe strip

**In order to drive LED flexible strip lights safely, it is absolutely necessary to operate them with an electronically stabilised power supply protecting against short circuits, overload and overheating.**

**To also ease the luminaire/installation approval, electronic control gear, power supply and all electronic accessories for LED or LED modules should carry “CE, or UL” mark and meet the latest safety standard.**

- Please use 24VDC isolated power supply to drive the led strip, and the constant voltage source ripple less than 5%. Can't step-down the power by resistance-capacitance and non-isolated power supply driver led strip, etc.
- To ensure the longevity and reliability of the strips, please do not bend the arc diameter 60mm or less, do not fold to avoid damaging the lamp beads or broken.
- To ensure the life and environment of lights, in the use of force can not pull the power cord to avoid damage to prohibit collision LED lights.
- During the installation of positive and negative attention to the power cord, do not pick the wrong voltage power supply and the product are the same, so as to avoid damage to the product.
- LED lights should be stored in dry sealed environment, the proposed storage period should not be too long before using unpacking, the working temperature:  $-20 \sim +45$ , Storage temperature:  $-0 \sim +60$ , not waterproof lights band indoor use, relative humidity not higher than 70%;
- In practical applications, the power supply should leave 20% margin (recommend using only 80% of the power) in order to ensure a sufficient amount of voltage drive products
- Do not use any acidic, alkaline adhesive securement products (including not limited to glass, plastic, etc.)

# INSTRUCTION MANUAL

**⚠ WARNING** DO NOT CONNECT DIRECTLY TO AC/DC HIGH VOLTAGE POWER!  
Read all warnings and installation instructions thoroughly.

## SAFETY & WARNINGS

- Install in accordance with national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- This product must be powered with a compatible Class 2 DC Constant Voltage LED driver (power supply).
- DO NOT power strip light while attached to plastic spool or tightly coiled. Excess heat may melt the spool and/or cause damage to the fixture.
- DO NOT install in location where LED chips are exposed to direct sunlight or damage to the phosphor will occur.
- Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause a fire.
- Strip light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- Connectors have a Class 2 amp limit unless otherwise noted.
- Each tape light has a different power consumption rating and maximum run length that must be individually wired to a compatible low voltage (PWM) control or LED driver. Refer to tape light package label or spec sheet for more information.
- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.



## QUICK SPECS

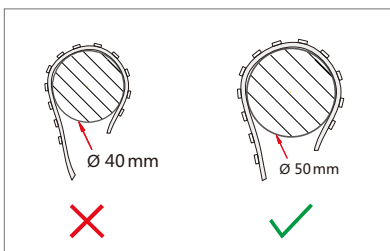
<b>Input Voltage</b>	24V DC
<b>Power Consumption</b>	10W/m
<b>Maximum Run</b>	5 m

<b>Included Model(s)</b>	24V DC
<b>Ambient Temperature †</b>	-4° ~ 122°F (-20° ~ 50°C)
<b>Environment</b>	Dry location

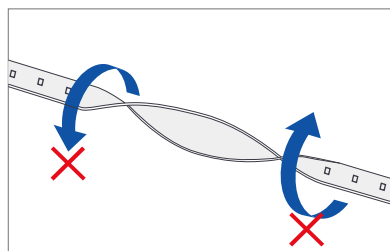
† Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.

\*\* indicates luminaire family, CCT, CRI, length. Does not include K-RANGE® or DAZZLE™ tape light models. Refer to product spec sheet for full specifications.

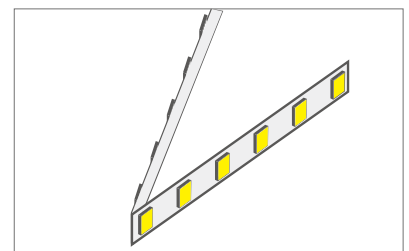
### ⚠ Operation Attention:



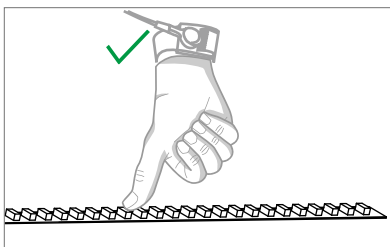
Do not bend LED Strip light to a diameter less than 40mm(1.5 inches)



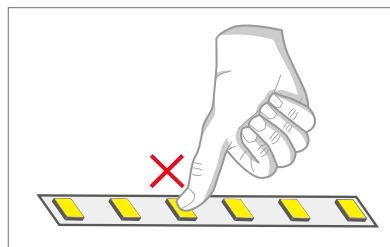
Do not bend LED Strip light like this, and this way will break the LED and bonding pad



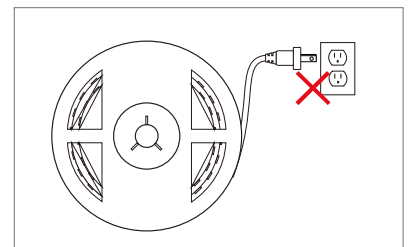
Do not fold or crease LED Strip light, and this way will break the LED and bonding pad



Touching LED, pls wear the electrostatic ring for avoiding ESD

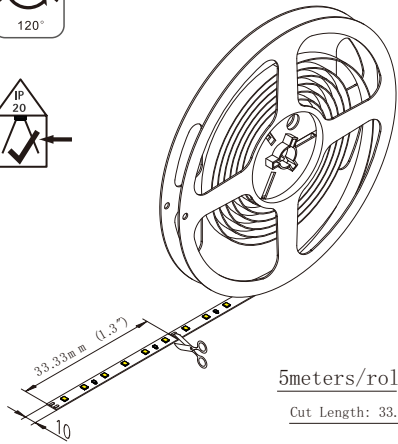
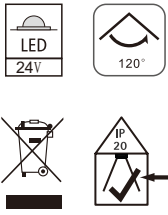


Do not put press heavily or put excessive pressure on surface of LED

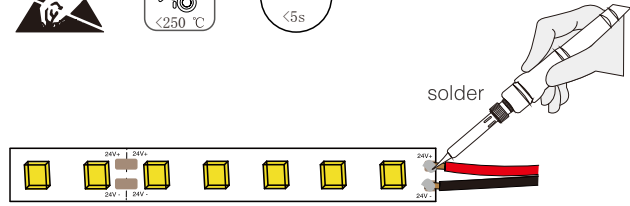


Do not connect directly LED Strip light to AC /DC high voltage power!

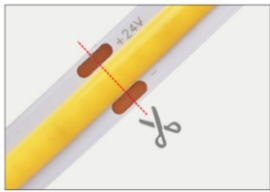
# INSTRUCTION MANUAL



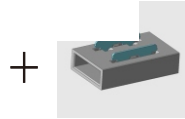
5meters/roll   
 Cut Length: 33.33mm (1.31)



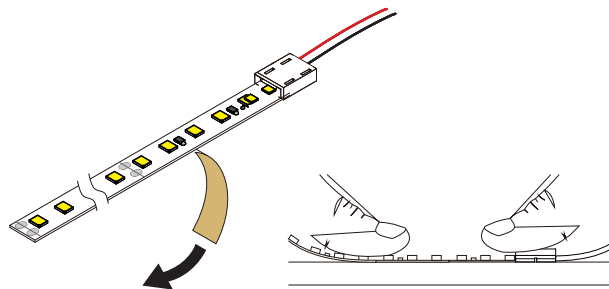
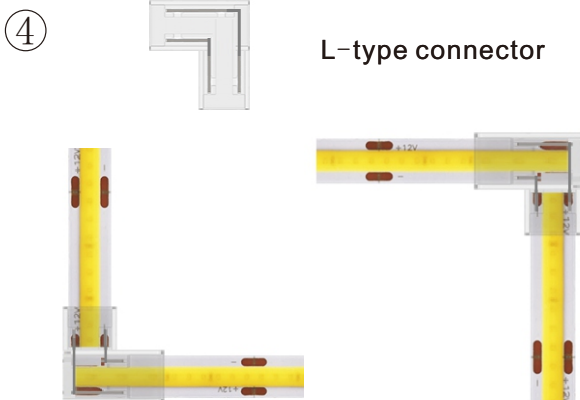
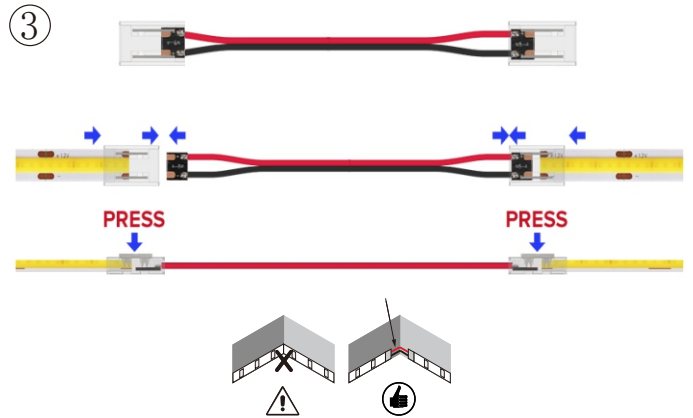
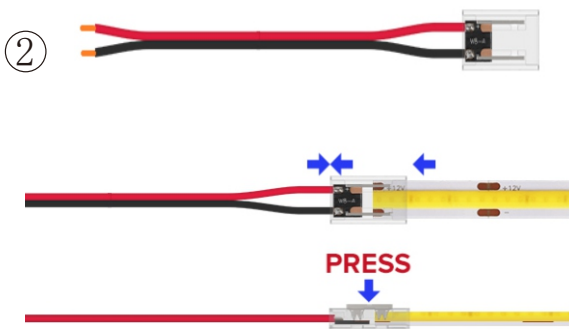
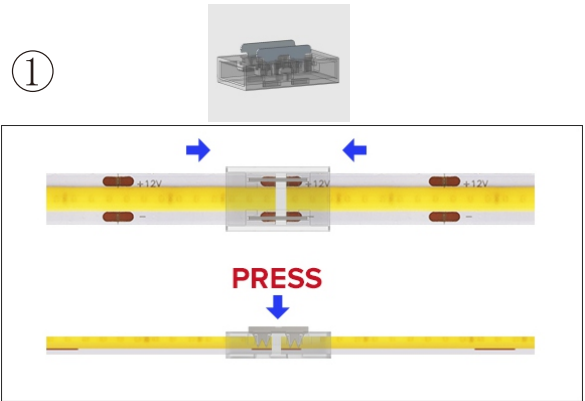
Connecting two welded parts with a maximum temperature of  $250^{\circ}\text{C}$  and no more than 5 seconds, and you must wear an electrostatic bracelet.



**Cutable**  
The rest LED strip can work normally



Cut along the LED Flex strip wherever a dashed line divides two sets of positive and negative connection points, and pls wear an electrostatic bracelet.



Remove the 3M tape from the connection and Ensure ambient temp is minimum  $50^{\circ}\text{F}$  ( $10^{\circ}\text{C}$ ) or tape will not adhere properly. Attach the strip to the installation position, and Adhere to a smooth, dry surface, working one end to the other.



# Accessories

- 1). LED STRIP to LED STRIP connectors and Cables;
- 2). LED STRIP to Powersupply connectors and Cables;

①

TSC-06-2P	L16.25mm	6mm PCB	H4mm
TSC-08-2P	L16.25mm	8mm PCB	H4mm
TSC-10-2P	L16.25mm	10mm PCB	H4mm



ITEM	Max. Voltage	Max. Current	Cable
TSC-06-2P	36V	5A	no cable
TSC-08-2P	36V	5A	no cable
TSC-10-2P	36V	5A	no cable



②

TSC-06-2P-L	L16.25mm	6mm PCB	H4mm
TSC-08-2P-L	L16.25mm	8mm PCB	H4mm
TSC-10-2P-L	L16.25mm	10mm PCB	H4mm

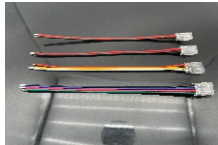


ITEM	Max. Voltage	Max. Current	Cable
TSC-06-2P-L	36V	5A	no cable
TSC-08-2P-L	36V	5A	no cable
TSC-10-2P-L	36V	5A	no cable

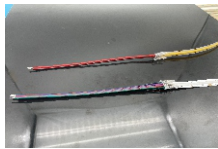


③

TSC-06-15CM	15cm cable	20#AWG	6mm PCB
TSC-08-15CM	15cm cable	20#AWG	8mm PCB
TSC-10-15CM	15cm cable	20#AWG	10mm PCB



ITEM	Max. Voltage	Max. Current	Cable
TSC-06-15CM	36V	5A	15cm / 20#
TSC-08-15CM	36V	5A	15cm / 20#
TSC-10-15CM	36V	5A	15cm / 20#



④

TSC-06-15CM-D	15cm cable	20#AWG	6mm PCB
TSC-08-15CM-D	15cm cable	20#AWG	8mm PCB
TSC-10-15CM-D	15cm cable	20#AWG	10mm PCB

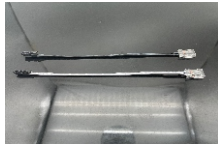


ITEM	Max. Voltage	Max. Current	Cable
TSC-06-15CM-D	36V	5A	15cm / 20#
TSC-08-15CM-D	36V	5A	15cm / 20#
TSC-10-15CM-D	36V	5A	15cm / 20#



⑤

L813-06-15CM	15cm cable	22# L-813	6mm PCB
L813-08-15CM	15cm cable	22# L-813	8mm PCB
L813-10-15CM	15cm cable	22# L-813	10mm PCB



ITEM	Max. Voltage	Max. Current	Cable
L813-06-15CM	36V	5A	15cm / 22#
L813-08-15CM	36V	5A	15cm / 22#
L813-10-15CM	36V	5A	15cm / 22#



⑥

DC5525-06-15CM	15cm cable	DC 5525	6mm PCB
DC5525-08-15CM	15cm cable	DC 5525	8mm PCB
DC5525-10-15CM	15cm cable	DC 5525	10mm PCB

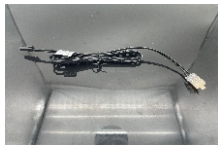


ITEM	Max. Voltage	Max. Current	Cable
DC5525-06-15CM	36V	5A	15cm / 20#
DC5525-08-15CM	36V	5A	15cm / 20#
DC5525-10-15CM	36V	5A </tr	



⑦

L813-06-1M	1m cable	22# L-813	6mm PCB
L813-08-1M	1m cable	22# L-813	8mm PCB
L813-10-1M	1m cable	22# L-813	10mm PCB



ITEM	Max. Voltage	Max. Current	Cable
L813-06-1M	36V	5A	1m / 22#
L813-08-1M	36V	5A	1m / 22#
L813-10-1M	36V	5A	1m / 22#



⑧

L813-06-2M	2m cable	22#AWG	6mm PCB
L813-08-2M	2m cable	22#AWG	8mm PCB
L813-10-2M	2m cable	22#AWG	10mm PCB



ITEM	Max. Voltage	Max. Current	Cable
L813-06-2M	36V	5A	2m / 22#
L813-08-2M	36V	5A	2m / 22#
L813-10-2M	36V	5A	2m / 22#

