

# Product Specification

## SMD HV Strip

### Pop 2835 AC230V 168 LEDs/M

### Driver Internal Without wire

### Flicker-free Dimming

HVFLST2XWD-XX-EU-HR-HQ4(BF)

Apply to ERP Regulation (EU) 2019/2020



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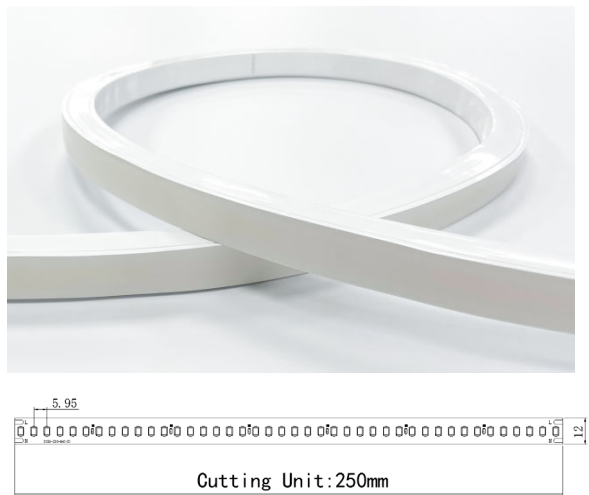
Fax : (852) 3152 3039







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|   |   |
|---|---|
| <p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• Self-encapsulated design 2835 LED;</li> <li>• Light source lifetime:30K hours(L70);</li> <li>• Meet (EU)2019/2020 ErP regulations.</li> <li>• Min. Bending Diameter: Φ150mm</li> <li>• Max. length(M): 30M</li> </ul> |   |
| <p><b>Technology info</b></p> <ul style="list-style-type: none"> <li>• Lighting Technology: LED</li> <li>• DLS or NDLS: NDLS</li> <li>• MLS or NMLS: MLS</li> </ul>   | <p><b>Certification Standards</b></p> <ul style="list-style-type: none"> <li>• EN55015:2019+A11</li> <li>• EN61547:2009</li> <li>• EN60598-1:2015</li> <li>• EN60598-2-20:2015</li> <li>• EN62493:2015</li> <li>• EN62471:2008</li> </ul> |

|  |  |
|--|--|
| <p><b>Non-ErP<br/>Waterpro<br/>of Type</b></p> | <br> |
|  | <p>3 Years<br/>Warranty</p>  |

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| <p><b>ErP<br/>Waterpro<br/>of Type</b></p> | <br> |
|  | <p>3 Years<br/>Warranty</p>  |

**HVFLST2XWD-XX-EU-HR-HQ4(BF)**  
**Parameters for non-ErP**

| Model NO.                   | CRI (Ra) | Rf | Rg | Typical Power (W/M) | Max. Power (W/M) | Color         | LED Color Temp.(K) Wavelength(nm)* | Typ. Luminous Flux LM/M(39.37in) | Rated voltage |
|-----------------------------|----------|----|----|---------------------|------------------|---------------|------------------------------------|----------------------------------|---------------|
| HVFLST2WWD-05-EU-HR-HQ4(BF) | 80       | 82 | 96 | 14.4                | 15.84            | Warm White    | 2600-2900K                         | 1120                             | AC 230V       |
| HVFLST2WWD-05-EU-HR-HQ4(BF) |          |    |    | 14.4                | 15.84            | Warm White    | 3000-3500K                         | 1180                             |               |
| HVFLST2NWD-05-EU-HR-HQ4(BF) |          |    |    | 14.4                | 15.84            | Natural White | 4000-4500K                         | 1200                             |               |
| HVFLST2WWD-20-EU-HR-HQ4(BF) | 80       | 82 | 96 | 14.4                | 15.84            | Warm White    | 2600-2900K                         | 1120                             | AC 230V       |
| HVFLST2WWD-20-EU-HR-HQ4(BF) |          |    |    | 14.4                | 15.84            | Warm White    | 3000-3500K                         | 1180                             |               |
| HVFLST2NWD-20-EU-HR-HQ4(BF) |          |    |    | 14.4                | 15.84            | Natural White | 4000-4500K                         | 1200                             |               |

Remarks:

- \* The above color temperature is the color temperature of LED source.
- The typ. Luminous flux tolerance range is  $\pm 10\%$  (subject to the manufacturer's instrument test).

Test methods of parameter:

- Test while turning on.
- Test 1m strip in the integrating sphere under the condition of input AC230V voltage

Test condition of above technical data:

- Surrounding temperature: 26 °C.
- The above parameters are data of internal power supply

## HVFLST2XWD-XX-EU-HR-HQ4(BF)

### Parameters for ErP

| Model NO.                   | CRI (Ra) | Rf | Rg | Typical Power (W/M) | Max. Power (W/M) | Color         | LED Color Temp.(K) Wavelength(nm)* | Luminous Flux LM/M(39.37') | Lumen/watt | Energy Efficiency class | Rated voltage |
|-----------------------------|----------|----|----|---------------------|------------------|---------------|------------------------------------|----------------------------|------------|-------------------------|---------------|
| HVFLST2WWD-05-EU-HR-HQ4(BF) | 80       | 82 | 96 | 14.4                | 15.84            | Warm White    | 2700K                              | 1450                       | 101        | F                       | AC 230V       |
| HVFLST2WWD-05-EU-HR-HQ4(BF) |          |    |    |                     |                  | Warm White    | 3000K                              | 1530                       | 106        | F                       |               |
| HVFLST2NWD-05-EU-HR-HQ4(BF) |          |    |    |                     |                  | Natural White | 4000K                              | 1550                       | 108        | F                       |               |
| HVFLST2WWD-20-EU-HR-HQ4(BF) | 80       | 82 | 96 | 14.4                | 15.84            | Warm White    | 2700K                              | 1450                       | 101        | F                       | AC 230V       |
| HVFLST2WWD-20-EU-HR-HQ4(BF) |          |    |    |                     |                  | Warm White    | 3000K                              | 1530                       | 106        | F                       |               |
| HVFLST2NWD-20-EU-HR-HQ4(BF) |          |    |    |                     |                  | Natural White | 4000K                              | 1550                       | 108        | F                       |               |

Remarks:

- \*The above color temperature is the color temperature of LED source.
- The typ. Luminous flux tolerance range is  $\pm 10\%$  (subject to the manufacturer's instrument test).

Test methods of parameter:

- Test after 10 mins turned on.
- Test 1m strip in the integrating sphere under the condition of input AC230V voltage

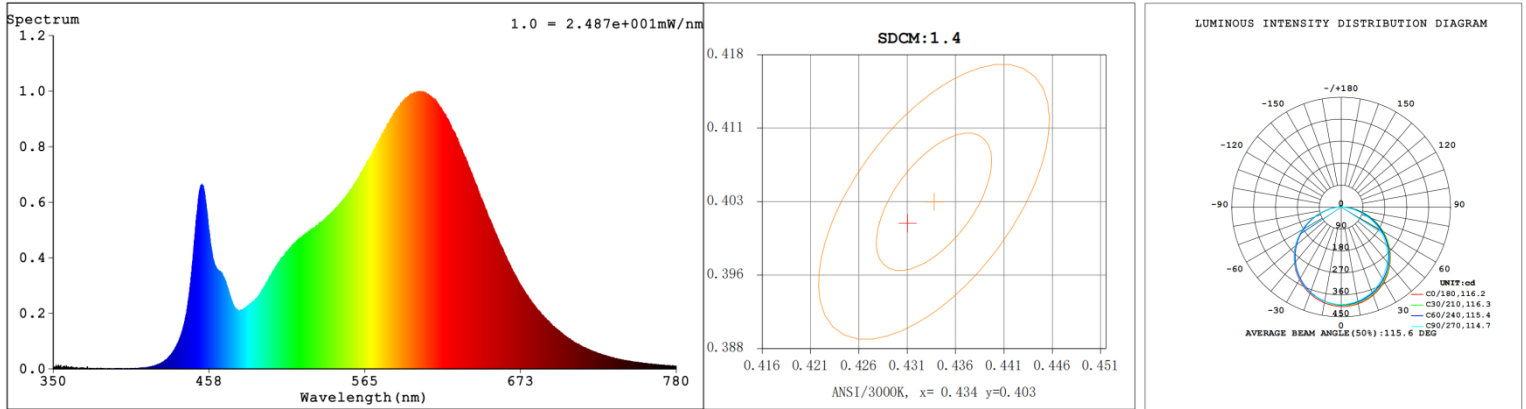
Test condition of above technical data:

- Surrounding temperature: 26 °C.
- The above parameters are data of internal power supply

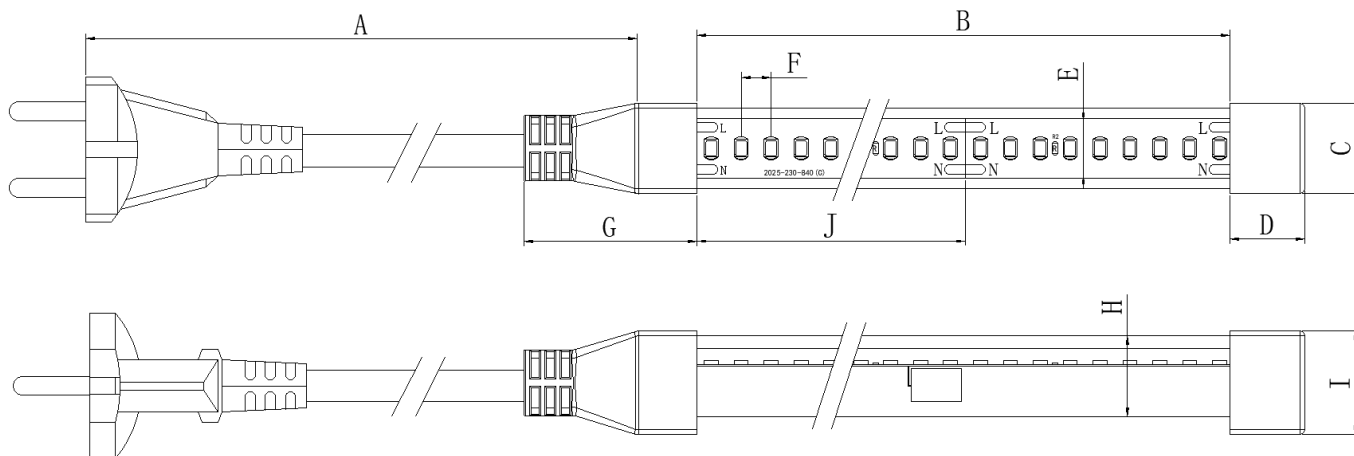
ErP Note:

- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power  $\leq P_{on} + 5\%$  ;
- Measured lumen  $\geq$  Useful luminous flux  $-10\%$ ;
- Measured CRI  $\geq$  Declared CRI-2
- The above technical data, including typical power are based on the test of 0.6m
- Only for industrial application.

**Optical Test Diagram**



**Dimension Drawing**



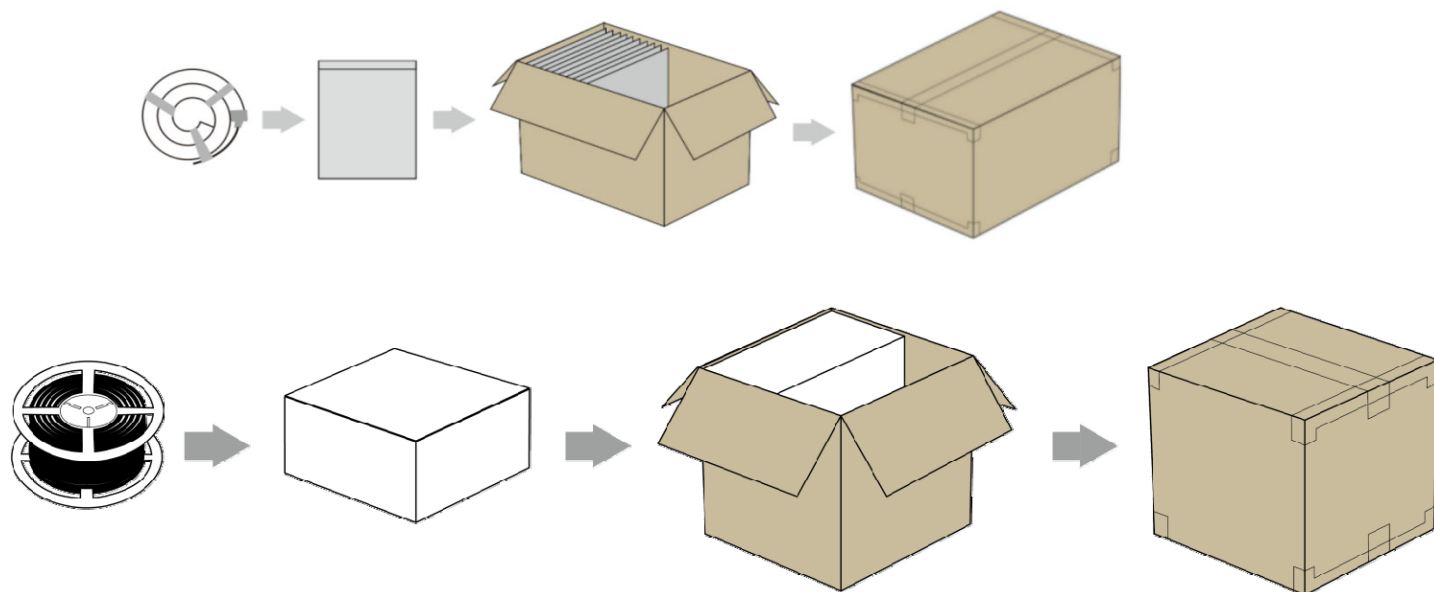
| <b>5M</b>     |                |               |              |               |               |               |               |               |               |
|---------------|----------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>A</b>      | <b>B</b>       | <b>C</b>      | <b>D</b>     | <b>E</b>      | <b>F</b>      | <b>G</b>      | <b>H</b>      | <b>I</b>      | <b>J</b>      |
| 1000±20mm     | 5000±30mm      | 18±0.5mm      | 15±0.5mm     | 16±0.5mm      | 5.95±0.5mm    | 34.5±1mm      | 16±0.5mm      | 20.5±0.5mm    | 250±0.5mm     |
| 39.37±0.787in | 196.85±1.181in | 0.708±0.019in | 0.59±0.019in | 0.629±0.019in | 0.234±0.019in | 1.358±0.039in | 0.629±0.019in | 0.807±0.019in | 46.29±0.019in |
| <b>20M</b>    |                |               |              |               |               |               |               |               |               |
| <b>A</b>      | <b>B</b>       | <b>C</b>      | <b>D</b>     | <b>E</b>      | <b>F</b>      | <b>G</b>      | <b>H</b>      | <b>I</b>      | <b>J</b>      |
| 1000±20mm     | 20000±30mm     | 18±0.5mm      | 15±0.5mm     | 16±0.5mm      | 5.95±0.5mm    | 34.5±1mm      | 16±0.5mm      | 20.5±0.5mm    | 250±0.5mm     |
| 39.37±0.787in | 787.4±1.181in  | 0.708±0.019in | 0.59±0.019in | 0.629±0.019in | 0.234±0.019in | 1.358±0.039in | 0.629±0.019in | 0.807±0.019in | 46.29±0.019in |

**Remarks:**  
If you need further information, please contact our sales manager.

## Optional Accessories

| Category             | Picture   | Part No.                   | Description   |
|----------------------|---|----------------------------|---|
| Aluminium Profile    |    | WW-AP1917-0025             | Aluminum Profile:<br>L25*W19*H17mm                    |
| Aluminium Profile    |    | WW-AP1917-100              | Aluminum Profile:<br>L1000*W19*H17mm                  |
| European accessories |    | WW-HFE-PPF29-12            | Middle connector supply set<br>(PC cover & connector) |
| European accessories |  | WW-HVFLST6-EU-C            | UK Power supply set<br>(PC cover & 2Pin, power cord)  |
| European accessories |  | HVFLST6-CW-EU              | EU Power supply set<br>(Front & end cap, power cord)  |
| LED Dimmer Switch    |  | WW-FSC-LRTHV600-DIM-1CH-A0 | SIZE:85*85*45mm(L*W*H)<br>Dimming range: 0-100%       |
| LED Dimmer Switch    |  | WW-FSC-LRTHV250-DIM-1CH-A2 | SIZE:43*45.5*13.8mm(L*W*H)<br>Dimming range: 0-100%   |

## Packaging Diagram



## Packaging Information

| Length | Reel size           | Inner carton      |          | Outer carton        |          | N.W            | G.W          | Outer carton volume  |
|--------|---------------------|-------------------|----------|---------------------|----------|----------------|--------------|----------------------|
|        |                     | Size              | Reel/ctn | Size                | Reel/ctn |                |              |                      |
| 5m     | 470*440*0.14mm      | /                 | /        | 440*400*260mm       | 10       | 12KG ±10%      | 14.2KG ±10%  | 0.046m <sup>3</sup>  |
|        | 18.5*17.32*0.0055in | /                 | /        | 17.32*15.74*10.23in | 10       | 26.45 Lbs ±10% | 31.3Lbs ±10% | 1.616ft <sup>3</sup> |
| 20m    | 330*110mm           | 345*330*122mm     | 1        | 362*265*350mm       | 2        | 8.8KG ±10%     | 10.48KG ±10% | 0.0335m <sup>3</sup> |
|        | 12.99*4.33in        | 13.58*12.99*4.8in | 1        | 14.25*10.43*13.78in | 2        | 19.39 Lbs ±10% | 23.1Lbs ±10% | 1.185ft <sup>3</sup> |

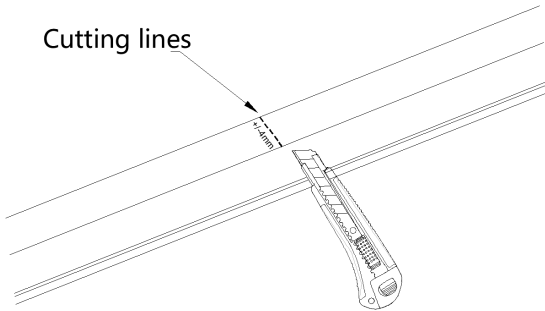
**Remarks :**

- Please contact our sales manager for customized package (color box, blister etc.)

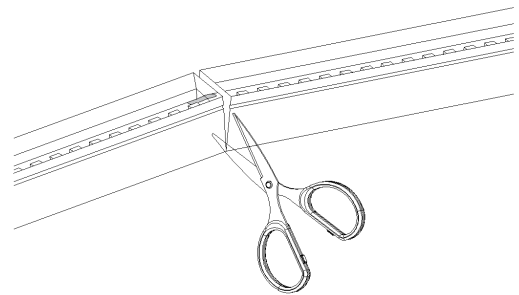


## Installation instructions

- The cutting line identification on the SMD HV strip is marked according to the calculated size, the tolerance between the internal cutting lines is allowed to be  $\pm 4\text{mm}$ .
- Please follow the cutting guidance as below:

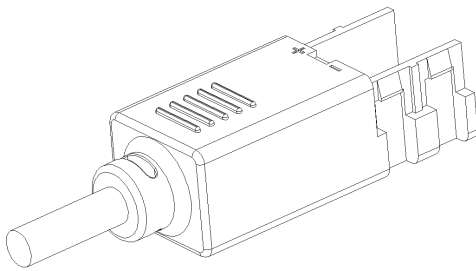


1. Use the utility knife reference light to cut through the bottom shear line to locate the pad.

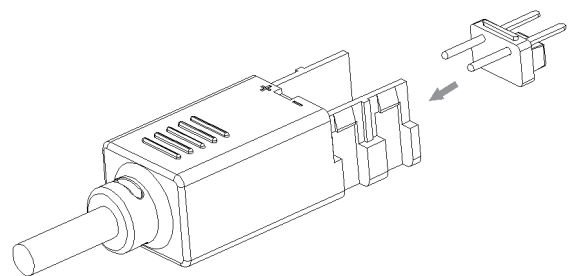


2. Cut along the pad with scissors.

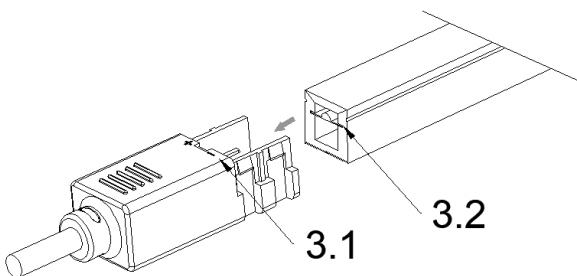
- Steps for installing the front connector after cutting.



1. Take out the HV 16mm front-end connector.



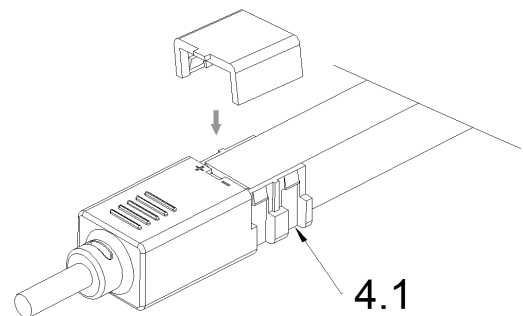
2. Insert the pins into the front-end connector.



3. Align the light strip with the pins and insert it into the front-end connector.

3.1 Ensure the +/- ends of the light strip match the polarity markings on the connector.

3.2 The pins need to be inserted between the FPCB and the transparent PET

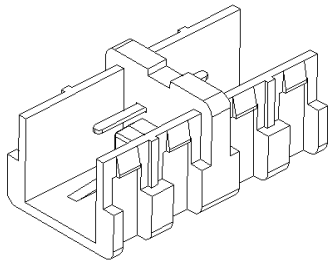


4. Cover with the PC cover.

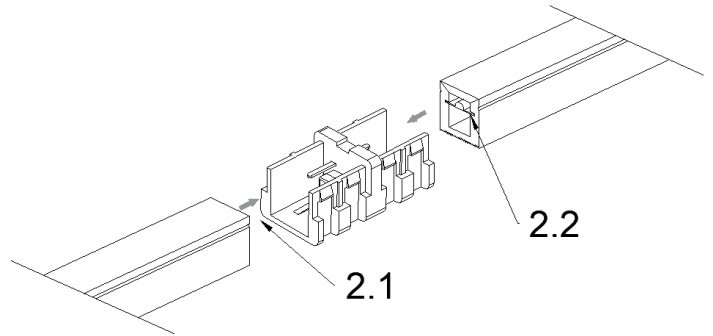
4.1 Injected with GEL

Complete the installation of the front-end connector.

- Steps for installing the middle connector after cutting.



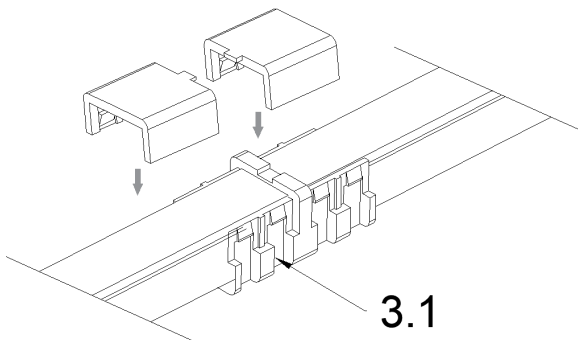
1. Take out the HV 16mm front-end connector.



2. Align the light strip with the pins and insert it into the front-end connector.

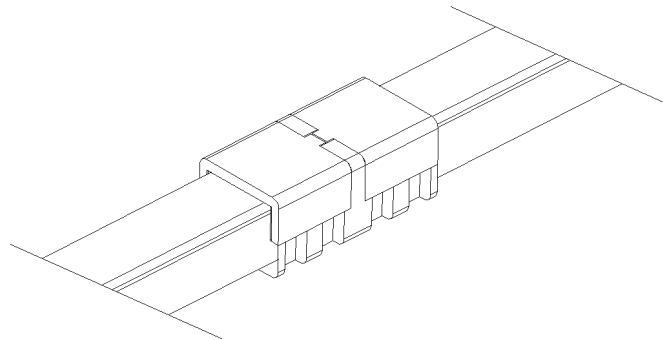
2.1 Ensure the +/- ends of the light strip match the polarity markings on the connector.

2.2 The pins need to be inserted between the FPCB and the transparent PET



3. Cover with the PC cover.

3.1 Injected with GEL



4. Complete the installation of the Middle connector.

 **Cautions**



Do not bend or stress on the strips from the side.



**Attention:**  
Be sure to confirm the install location well before applying power to strips. Once the strip is lighting, or its temperature higher than 40°C, please do not pull it.



DO NOT BEND ON HORIZONTAL PLANE



DO NOT BEND 90°



DO NOT TWIST



DO NOT HANG



DO NOT SUSPEND



Do not USE THIRD PARTY FASTENERS



Do not INSTALL INSIDE BUILDING STRUCTURES



Do not FOLD OR OVERLAP



Do not CUT OR CONNECTING CABLE



Do NOT PUNCTURE



Do not STEP ON OR PUT OBJECTS ON TOP



Do not USE ADHESIVE FOR INSTALLATION



No ground friction



No piercing



Do not pull and crash



Do not press the surface of LED



Please follow the user manual for installation



Operate carefully to avoid electric shock



Note the positive and negative poles



Defective product photo should be provided for warranty



Relative humidity 40%-70%



Storage life is within 6 months



Away from high power



Away from high voltage



Can be used in wet place, but do not contact with water directly



not under blazing sun for long time



Do not put plug, bridge rectifier, front and end cap into water



Pay attention to the power and ensure that the power supply wire is not overload



Ensure the output rated voltage operate within ±5%



Operate by professionals only



Do not use near flammable materials



The continuous working time do not exceed 12 hours daily



Storage temperature  
0°C~+60°C  
(32°F~+140°F)



Operating temperature  
-20°C~+45°C  
(-4°F~+113°F)

 **Cautions**



For avoiding LED get vulcanized, LED strip should be installed in the environment where does not has oil and corrosive substances. Such as these substances which contain Sulphur, Bromine, Iodine and Chlorine. Some other chemical elements which will cause Aromatic hydrocarbons releasing(such as: methylbenzene, xylene, methyl acetoacetate Ethyl acetate etc.).The environment in which includes strong acid and strong base.



During the warranty period, only defective products are acceptable to be replaced by the factory. Factory is not responsible for other expenses because of replacement, such as transportation fee, installation fee, etc..



Do not cover this product as the covering may cause the flexible light to overheat and melt or ignite.



Do not operate with the products. To prevent overheating do not allow contact between products and parts of light cables. Maintain at least 12mm spacing between products or parts of light cables.



Do not cut, shorten, or splice the flexible lighting.



Stop to use if any damage of fail to the light and cord insulation. must inspect periodically.  
Stop to use, if abnormal product functions are found, such as abnormal flashing, part of strip are not turning on, burning, and water vapor or droplets found inside the light strip



Do not submerge flexible light in liquids, or use the product in the vicinity of standing water or other liquids.



Do not exceed the maximum number of extensions or flexible light lengths permitted by the marking.



Be wary of rick of fire and electric shock if use this product incorrected or not follow this specification.



Dilux will not response to incorrected used.

**Dilux will not be responsible for warranty if product failure happens because of incorrect installation, incorrect use, man-made damage or irresistible external forces (Earthquake, Typhoon, Tsunami, Tornado, etc.)**

**\*\* If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.**

**\*\*The right of final interpretation is owned by Dilux.**