

LED NEON FLEX

AWHE1608-D





Features

- Color options: Single color
- Design: Superior design with exquisite craftsmanship ensure stable and reliable performance.
- Flexible and can be bent properly;
- A variety of specifications are available, support customization;
- Power Supply Mode: single feed, max run 50m; double feed, max run 100m.
- Warranty: 5 years indoors, 3 years outdoors;



Optical & Electrical Parameters

| Model No. | Voltage | Beam Angle | Dimmable | CRI | Color | Lm/m | Lm/W | Rated Power |
|-------------------------|---------|------------|----------|--------|-------|------|------|-------------|
| AWHE1608-D-Single color | 230V AC | 113° | / | >80 | 3000K | 1162 | 95 | 12.0 W/m |
| | | | | | 4000K | 1193 | 95 | |
| | | | | | 6300K | 1190 | 96 | |
| | | | | | / | Red | 173 | |
| | | | | / | Green | 827 | 66 | 12.0 W/m |
| | | | | Blue | 160 | 13 | | |
| | | | | Yellow | 1206 | 100 | | |
| | | | | Orange | 452 | 38 | | |

Note: the working voltage range of this product is AC 180 ~ 264V;

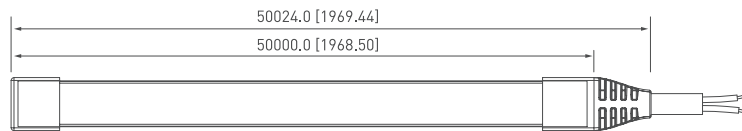
Other Parameters

| Model No. | LED QTY (pcs/m) | Standard Run | Min. Cuttable Length | Working Temperature | Storage Temperature |
|-------------------------|-----------------|--------------|----------------------|---------------------|---------------------|
| AWHE1608-D-Single color | 104 | 50000.0mm | 500.0mm | -20~+60°C | -20~+70°C |

Note:
The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

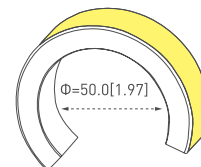
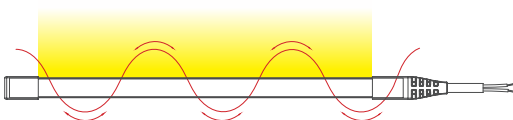
Profile Drawings

Unit: mm[inch]

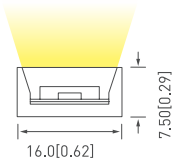


Bend direction

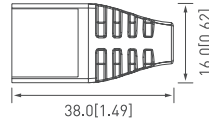
Bending Diameter



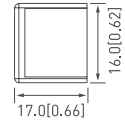
Sectional view



Front cap



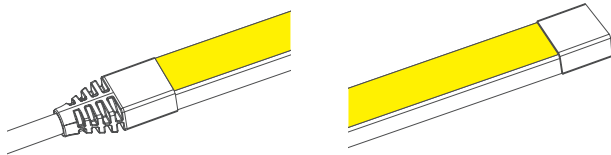
Closing End-cap



Remarks: "L" is the standard size of the light strip, can be customized according to the multiple of the minimum cutting unit length.

IP Process Technology

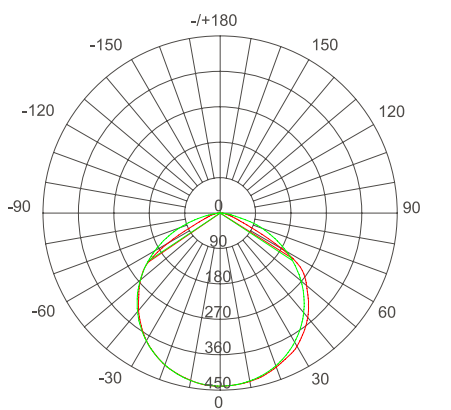
Glue Process (IP67)



- Glue process the end cap after cutting, warranty will be provided upon IP65 rated.
- No warranty will be provided if the injection moulded(IP68) end cap destroyed or reprocessed.
- Corresponding molding equipment and mold needed for self-processing injection moulded end cap, contact the sales for more information.

Luminous Intensity Distribution Diagram

Average Illumination



Unit: cd
 - C 0 /180,113.6°
 - C 90/270,113.0°

AVERAGE BEAM ANGLE(50%): 113.3°

| Height | Flux Out: 957.9lm | CCT=3000K |
|--------|-------------------|-----------|
| 0.5m | 514.4,1810lx | 151.01cm |
| 1.0m | 128.6,452.4lx | 302.02cm |
| 1.5m | 57.15,201.1lx | 453.03cm |
| 2.0m | 32.15,113.1lx | 604.04cm |
| 2.5m | 20.58,72.38lx | 755.05cm |
| 3.0m | 14.29,50.26lx | 906.05cm |
| 3.5m | 10.50,36.93lx | 1057.06cm |
| 4.0m | 8.037,28.27lx | 1208.07cm |
| 4.5m | 6.350,22.34lx | 1359.08cm |
| 5.0m | 5.144,18.10lx | 1510.09cm |

Beam Angle: 112.97°

Note: above data tested with AWHE1608-D at 3000K , for other data,please consult sales rep.

Recommended power supply upon working length

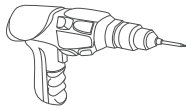
AWHE1608-D-Single color

| Working Length | Measured Current | Rated Voltage | Measured Power | Recommended Power Supply | Power Supply Mode |
|----------------|------------------|---------------|----------------|--------------------------|-------------------|
| 1m | 0.05 A | 230AC V | 12.13 W | / | Single Feed |
| 50m | 2.86 A | 230AC V | 603 W | / | Single Feed |

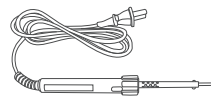
Products and Tools



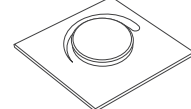
Cutter



Electric drill

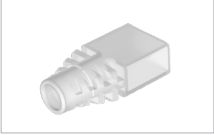
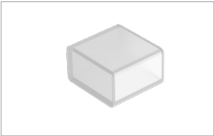

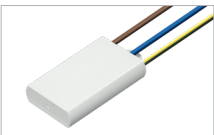




Electric iron



S1-K Dimmer

Product accessories

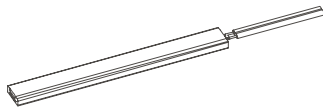
| Item | Model No. | Dimensions L*W*H(mm) | Quantity (m)/pcs | Free/Optional |
|------------------------------------------------------------------------------------|-----------------|----------------------|------------------|---------------|
|  | AWHE1608-D-PCIS | 38.0*18.6*16.2 | (50): 1 | Free |
|  | AWHE1608-D-ECS | 17.0*18.6*9.8 | (50): 1 | Free |
|  | WR-7516 | 45g/pc | (50): 1 | Optional |
|  | / | / | (50): 1 | Optional |
|  | / | / | (50): 1 | Optional |
|  | / | / | (50): 1 | Free |

AC surge protector diameter

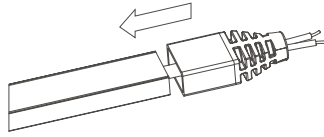
| Rated voltage | Nominal discharge current | Max impulse voltage | Protection level | Response time | Working temperature |
|---------------|---------------------------|---------------------|------------------|---------------|---------------------|
| 110~277VAC | 5kA | 20kV | 1.1kV | 25ns | -40~80°C |

Installation

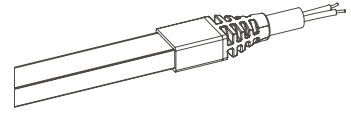
Front cap installation



Weld the wire to the PCB board.

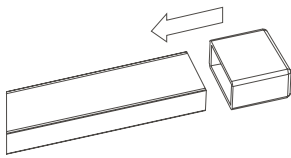


First put waterproof glue inside of the end exit, then push into the strip light.

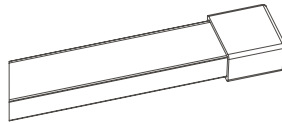


Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation



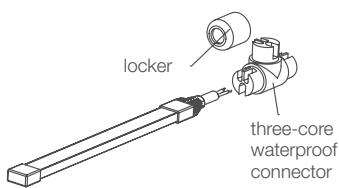
First put some glue inside of the plug, then push into the strip light



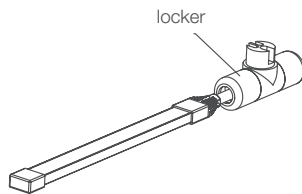
Wipe off the excess glue and wait for the glue to solidify.

- At welding part, note the positive and negative poles of lines and board; positive to positive and negative to negative.
- Each connection point must use 10g silicone glue, and add waterproof and insulation treatment;
- The customer selects the appropriate operations according to actual needs;
- Please handle with care during the installation. The corners should meet the minimum bending diameter of the product, and you need to use our matching accessories to install, so as to avoid unnecessary losses to you;
- If you don't know enough about the product, please feel free to consult before buying. We will consider it for you and try our best to bring you a good buying experience;

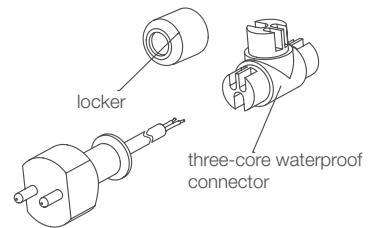
Aluminum channel installation



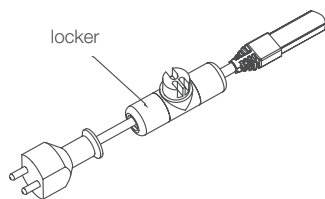
Connect the neon outlet end with a waterproof connector



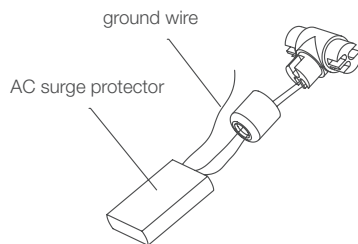
Tighten the cable with a locker



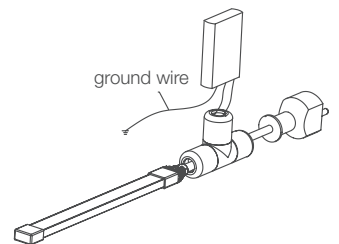
Peel off the tail of the EU plug cable and connect it to the other end of the connector.



Tighten the cable with a locker



Connect AC surge protector to the connector middle outlet end

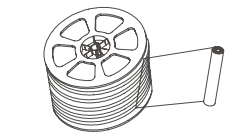


Tighten the cable with a locker

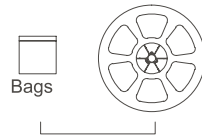
Reliability test

| Project | Reference standards | Category | Test conditions | Outcome |
|-----------------------------|---------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Environmental test | Blueview standard | PTC test | Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min) | Pass |
| | | High and low temperature cycle test | Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting | |
| | | High temperature resistant test | TH=60°C working environment, continuous light up | |
| | | Static winding test | Wrapped on a tube with a diameter of 60mm, keeps lighting up in room temperature | |
| | | Room temperature aging test | TA = 25°C, continuously light up | |
| | | Voltage, switch impulse test | AC185 / 220 / 265V, switching once every 6min and switching power once every 3min | |
| Mechanical strength testing | Blueview standard | Tensile test | Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off. | Pass |
| | | Twist test | 220V lights up, forward and reverse rotation each 360°, if the sample is still ok, increase the degree of rotation until the sample fails | |
| | | Withstand voltage test | Input end to output end, 1500VAC; input end to cover, 1500VAC; output end to appearance, 300VAC; test 1min | |

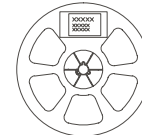
Packaging Information



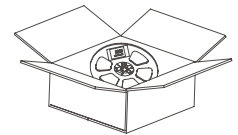
Roll the product to a reel, then wrap it with PE film



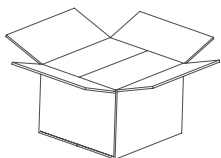
Put the reel and accessories bag on the work table



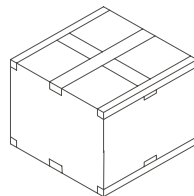
Label the reel;



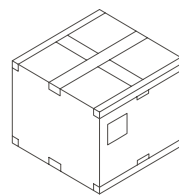
Put the prepared products into a carton box;



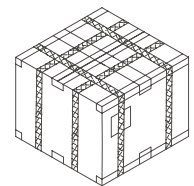
Put the carton boxes packed with products into a bigger box



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

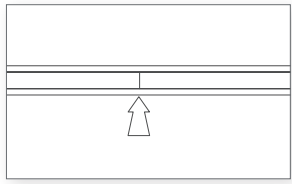
Packaging information

| Model No. | Product Size L*W | Carton Size | Meter/Reel | Reel/Carton | Gross Weight (kg) |
|-------------------------|------------------|---------------|------------|-------------|-------------------|
| AWHE1608-D-Single color | 50000*16*7.5mm | 375*375*200mm | 50 | 1 | 14.50 (1±10%) |

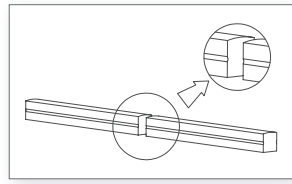
Note:

- Each 1 piece(5m) for a reel and every reel put into a small case,two cases packed in a carton box.
- The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.
- For other customized length packaging, please ask our sales staff.

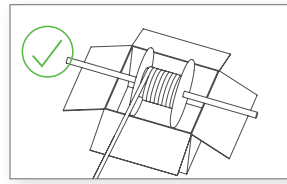
Warning Mark



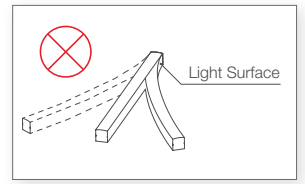
Cuttable identifier



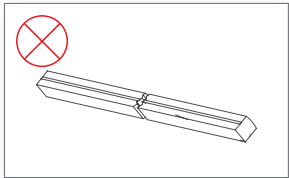
Neat and smooth cut



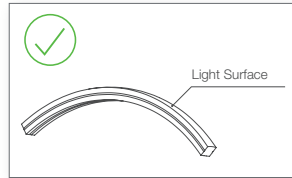
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



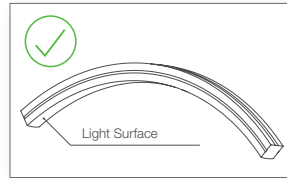
Side bending



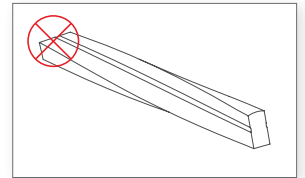
Do not make irregular cuts.



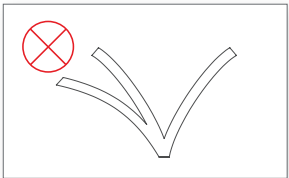
use in convex direction



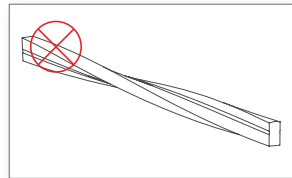
use in concave direction



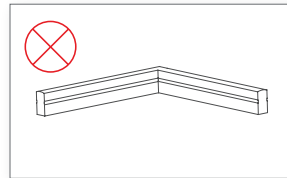
Do not use in distortions



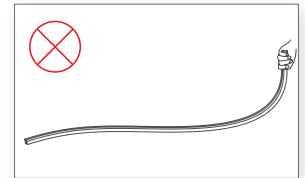
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)

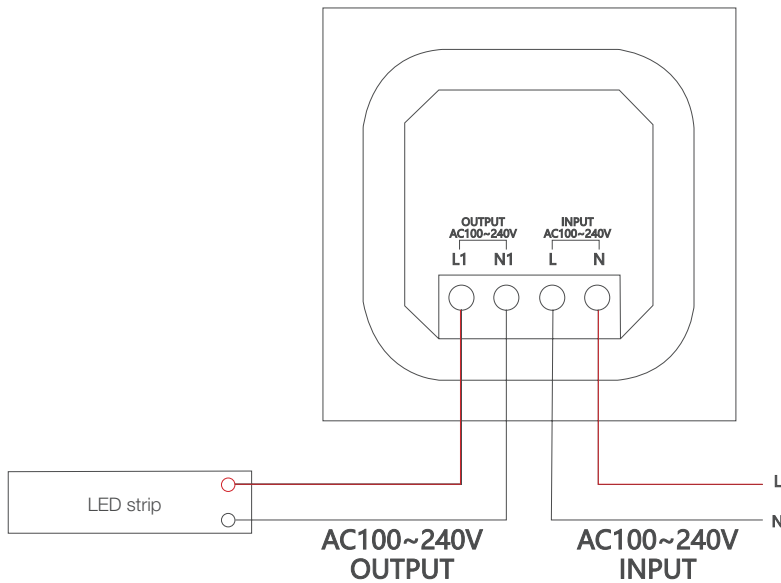


Do not bend at right angles



Do not throw or pull when taking products

Controller Wiring Diagram



1. The model of the controller is S1-K (AC thyristor radio frequency dimmer);
2. The min dimming ratio can be adjusted to 25%;
3. The dimmer can drive up to 25m of light strip;
4. Adopt post-cut dimming;

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.

Statements and Recycling

Packaging information

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.
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