

LED

HIGH VOLTAGE STRIP

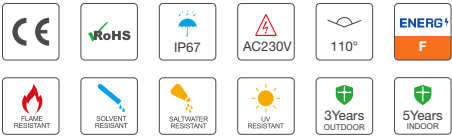
AWHE1608-D (ErP)





Features

- Color options: Single color;
 - High voltage neon with power supply kit;
 - AC176~264V input;
 - ErP class-F, CE passed;
 - High brightness, uniform light-emitting;
 - Single feed max run 40m;
- Warranty: 5 years indoors, 3 years outdoors;



Optical & Electrical Parameters

Model No.	Voltage	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
AWHE1608-D-Single color	230V AC	>80	2300K	810	88	8.0
			2700K	988	107	
			3000K	1008	108	
			4000K	1011	110	
			5000K	1035	117	
			6500K	1057	113	
AWHE1608-D-Single color	230V AC	/	Red	133	14	8.0
			Green	828	89	
			Blue	164	17	
			Yellow	1102	118	
			Orange	429	44	

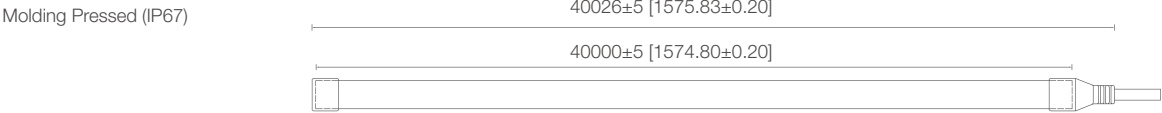
Note: the working voltage range of this product is AC 176 ~ 264V;

Other Parameters

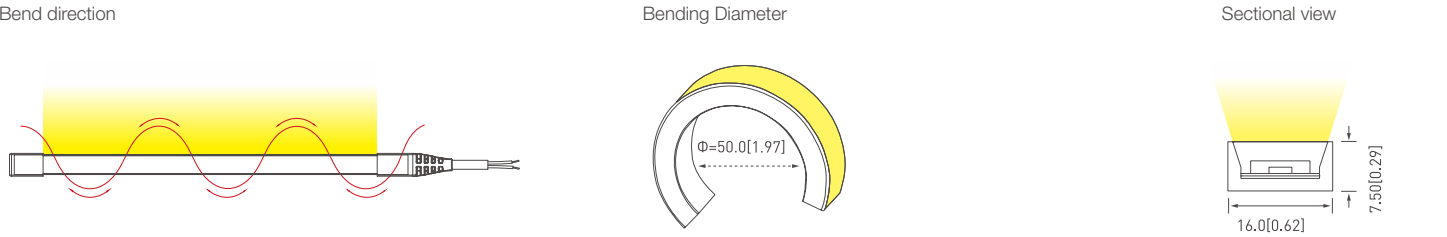
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
AWHE1608-D	88	40.0m	500.0mm	-20~+60℃	-20~+70℃

Profile Drawings

Unit: mm[inch]

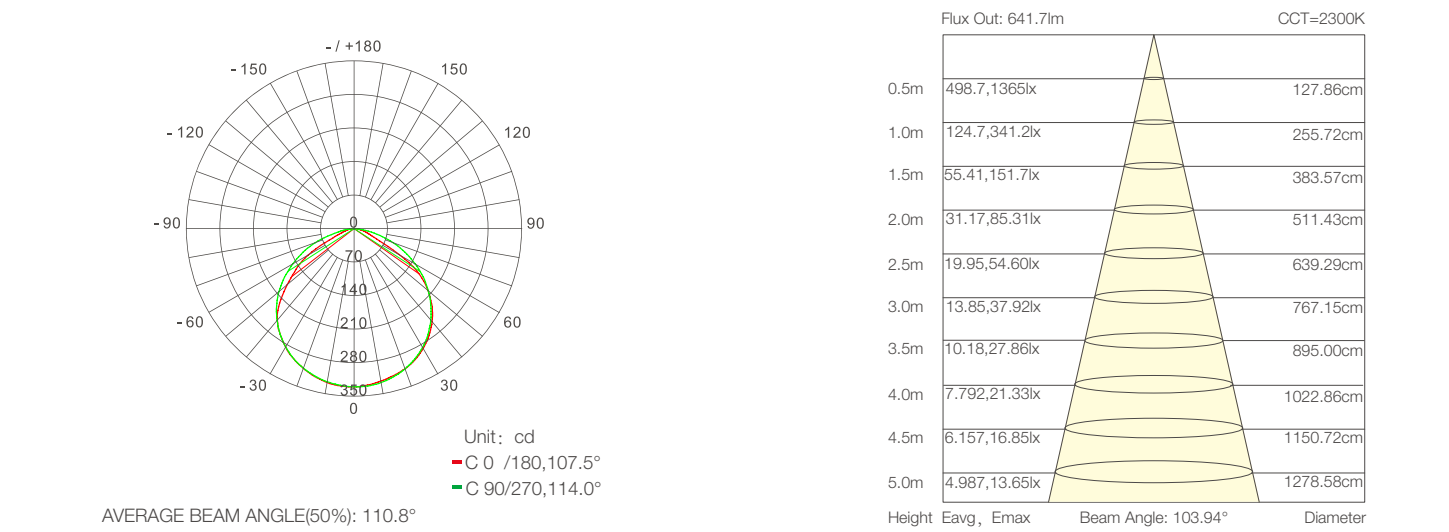


Note: High voltage product can not be cut.



Luminous Intensity Distribution Diagram

Average Illumination



Note: above data tested with AWHE1608-D at 2300K , for other data,please consult sales rep.

Recommended power supply upon working length

AWHE1608-D

Working Length	Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.13 A	230AC V	9.13W	/	Single Feed
40m	2.00 A	230AC V	320W	/	Single Feed

Note: Test the strip and external power together

Products and Tools

Cutter

Electric drill

Electric iron

Product accessories

Item: Front cap
Dimensions L*W*H: 38.0*18.6*16.2 mm
Quantity (40m): --
Free/Optional: Optional

Item: Closing End-cap
Dimensions L*W*H: 17.0*18.6*9.8mm
Quantity (40m): --
Free/Optional: Optional

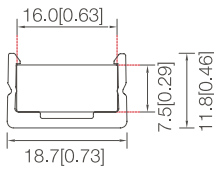
Item: Plastic Clip
Dimensions L*W*H: 25*19*11.8 mm
Quantity (40m): --
Free/Optional: Free

Screws
Item: PA3
Dimensions L*W*H: PA3*10mm
Quantity (40m): --
Free/Optional: Free



WR-7516	
Item:	Silicone Glue
Dimensions:	45g/pc
Quantity (40m):	--
Free/Optional	Optional

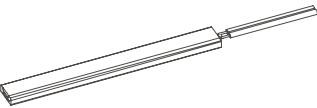
Profile Drawings (neon + mounting clip)



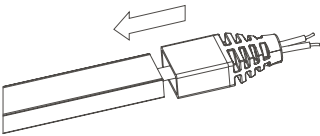
Plastic Clip+Neon
ASY-AWHE1608-P1(P3)NNXXX-MT

Installation

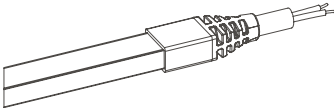
Front cap installation



Weld the wire to the PCB board.

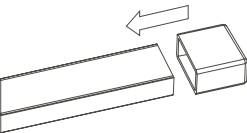


Apply waterproof glue to the front cap, then install the cap.

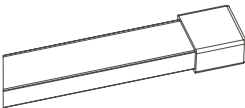


Wipe off the excess glue and wait for the glue to solidify

Closing-end cap installation



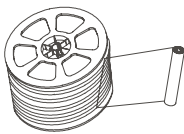
Apply waterproof glue to the end cap, then install the cap.



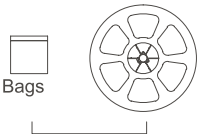
Wipe off the excess glue and wait for the glue to solidify

- Pay attention to the positive and negative poles of wires and boards at the welding position.
- Every connected position requires 10g of silicone glue, as well as waterproofing and insulation treatment;
- The customers can select the appropriate operation according to actual needs;
- Please follow the installation instructions to avoid unnecessary losses to you;
- For more information, please consult sales rep;

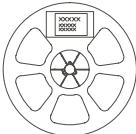
Packaging Information



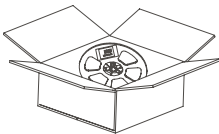
Roll the product to a reel, then wrap it with PE film



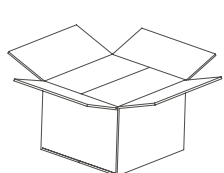
Put the reel and accessories bag on the work table



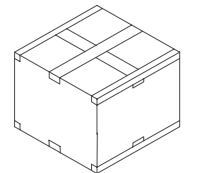
Label the reel;



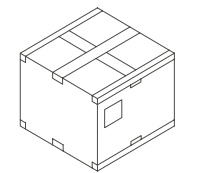
Put the prepared products into a carton box;



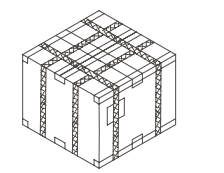
Put the carton box packed with products into another bigger carton box.



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packing information

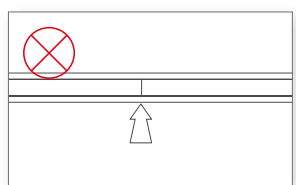
Model No.	Product Size	Carton Size	Meter/Reel	Reel/Carton	Gross Weight (kg)
AWHE1608-D	40000*16*7.5mm	375*375*200mm	40	1	14.50 (1±10%)

- Note:
- 40m per reel, and one reel per 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.

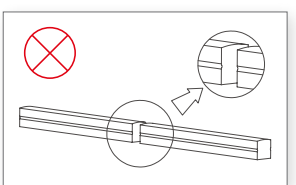
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	TH = -40 - 60°C/ 2H, heating/cooling takes 45min, the test temperature of each cycle lasts for 15min.	Pass
		High temperature and humidity test	TH=60°C, RH = 90%, power on.	
		High temperature resistance test	TH=60/80°C working environment, power on	
		Switch test	AC185/220/265V switch every 6min, on/off every 3min	
Mechanical strength testing		Room temperature bending test	Bending diameter 50mm, Ta=25°C, power on	
		Tensile test	Fix the ends of the sample on the tension machine, then power on and record the tension value when the sample is turned off.	
		Twisting test	24V light on and rotate 360° forward and backward, if the sample still OK, increase the degree of rotation until the sample broken.	
		Withstand voltage test	Voltage 500V, L to N, test time 1min	
		Lightning surge test	L to N, 2.0KV, 0°/90°/180°/270° phase position, five pulses of positive and negative polarity	
		Drop test	0.45-9.52KG, drop height 76.2cm	

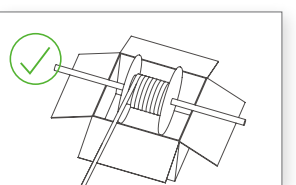
Warning Mark



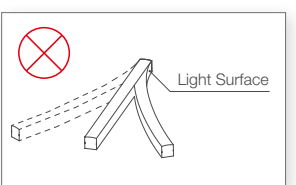
Cuttable identifier



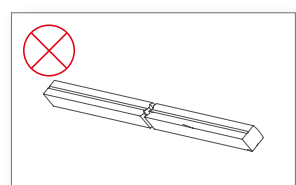
Neat and smooth cut



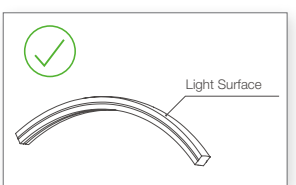
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



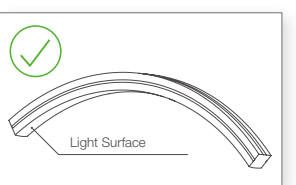
Side bending



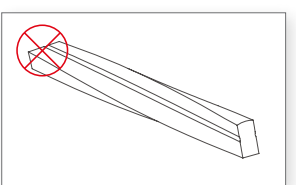
Do not make irregular cuts.



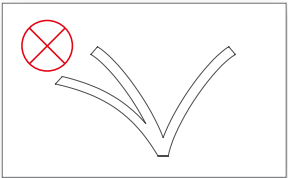
use in convex direction



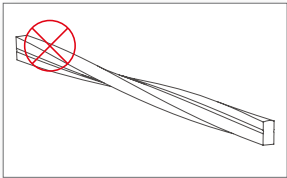
use in concave direction



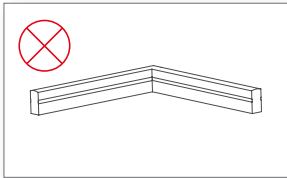
Do not use in distortions



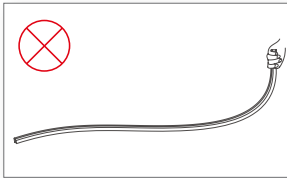
Do not bend many times,for it can endanger electronic lines.



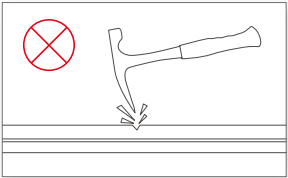
Do not use on wringing(twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Note:
1. There are cutting marks on the PCB;
2. When handling and installing the product, please pay attention to the above warning signs

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.

Version	Content	Date
A1.5	Upgrade: aluminum profile drawing, warning	2023-7-4