



#### Features

- Pixelation-free with exactly the deep rich neon color
- Constant current IC technology for enhanced reliability
- Consistent brightness without any decay
- Cuttable every 50mm[1.97in] for excellent flexibility
- UL, RoHs and CE listed
- Wide voltage input with over temperature and over voltage protection
- IP67 protection with high performance silicone
- Dimmable with external controller

## Application

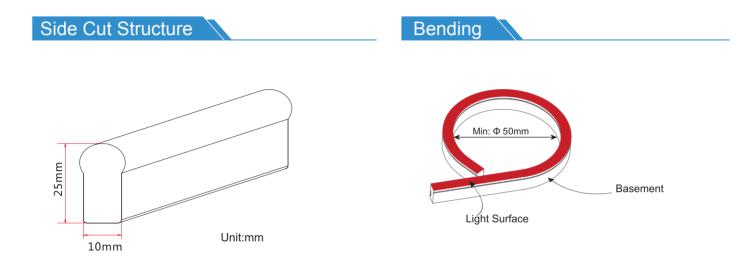
- Decorative & landscape lighting
- Accent lighting
- Signage
- Architectural and interior outlines



Bracket, or Aluminum channel







## Optical & Electrical Parameters

Model No.	Light Color	CCT/Wavelength	Beam Angle	Luminous Flux (Im/m)	Ra	Voltage (DC V)	Power (W/m)
	White	7465K		546			
LED Neon <sup>10</sup>	Red	619.3nm		231			
1225 RT	Yellow	584.4nm	180°	686		24	9.6
	Green	517.8nm		438			
	Blue	461.9nm		91			

## Other Parameters

Model No.	LED Quantity	Min Cuttable	Working	Storage
	(pcs/m)	Length(mm)	Temperature	Temperature
LED Neon <sup>10</sup> - 1225 RT	120	50	-20~+60	-20~+70



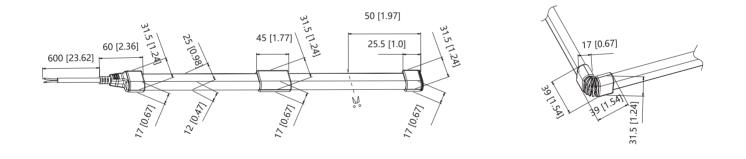


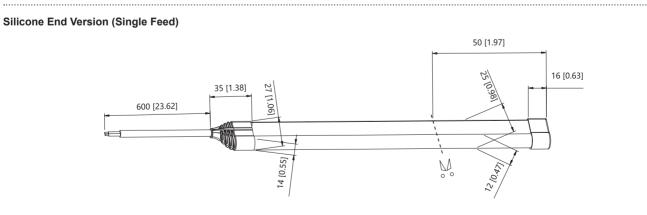
## **Profile Drawings**

Simple Version (Single Feed)

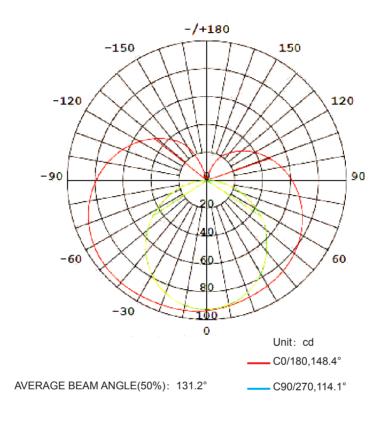
Unit:mm

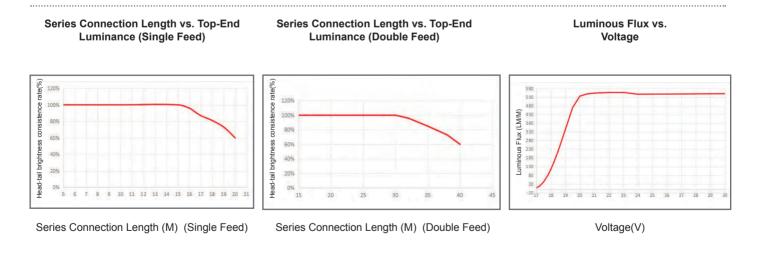
Unit:mm



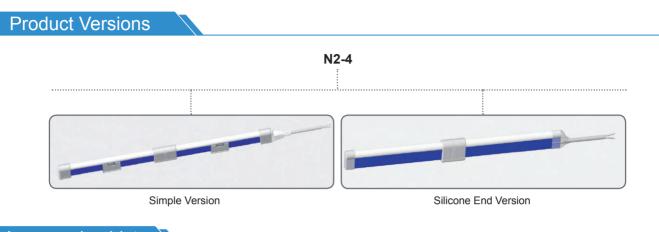


## Luminous Intensity Distribution Diagram





Note: The above tested data is based on one meter N2-4 neon light.



**Accessories List** 

#### **Simple Version**

Picture	Description	Qty(15m)	Qty(30m)	Optional /Free
	Description	2 Sets	4 Sets	Free
	Splice connector	1 Sets	2 Sets	Free
0	O-ring	2 Sets	4 Sets	Free
6	Gasket	2 Sets	4 Sets	Free
X	L Connector	1 Sets	2 Sets	Free
	End caps	2 Sets	4 Sets	Free
j <del>i</del>	Bottom exit	2 Sets	4 Sets	Optional
	Right side exit	2 Sets	4 Sets	Optional
	Left side exit	2 Sets	4 Sets	Optional
	Aluminum track	30 Sets	60 Sets	Optional
-	923L	1 Sets	2 Sets	Optional

#### Note:

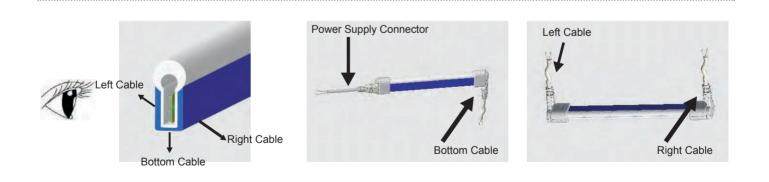
The difference of each product version is in the fittings. It is recommended 2 sets mounting accessories per meter Aluminum track.

#### **Silicone End Version**

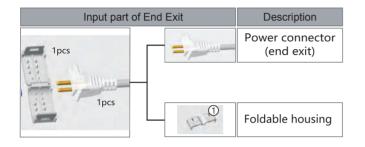
Picture	Description	Qty(15m)	Qty(30m)	Optional /Free
	Power supply connector	2 Sets	4 Sets	Free
	White sheathed wire	2 Sets	2 Sets	Free
	Splice connector	1 Sets	4 Sets	Free
X	L Connector	1 Sets	4 Sets	Free
0	Silicone End cap	2 Sets	2 Sets	Free
	Aluminum track	30 Sets	4 Sets	Optional
-	923L	1 Sets	4 Sets	Optional

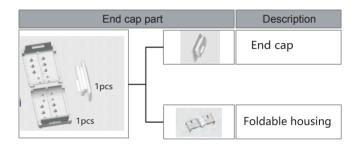
Note: It is recommended 2 sets mounting accessories per meter Aluminum track.

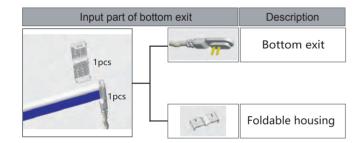
## Cable Instruction

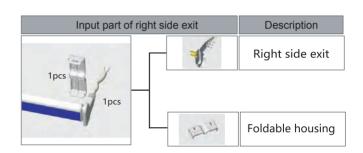


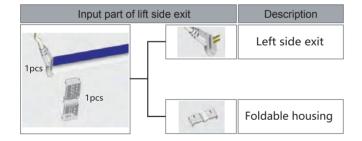
## Accessory Sets (Simple Version)



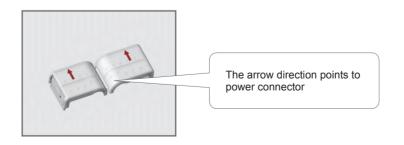








1Note: ① Arrow explanation on foldable housing



## Power Supply Configuration Table

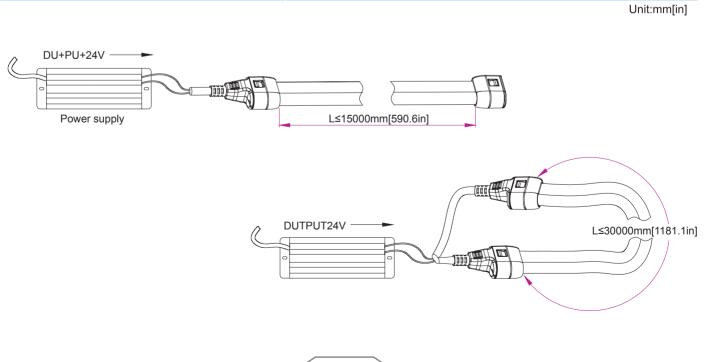
Product standard length (m)	Rated Current (A)	Rated Voltage (V)	Rated Wattage (W)	Power Supply (W)	Power Feed
1	0.4	24	9.6	≥12	Single end
5	2	24	48	≥60	Single end
10	4	24	96	≥120	Single end
15	6	24	144	≥180	Single end
20	8	24	192	≥240	Both ends
25	10	24	240	≥300	Both ends
30	12	24	288	≥360	Both ends

#### Note:

If the Length is shorter than 15m, recommend single feed supply.

If the length is longer than 15m shorter than 30m, recommend supplement both feed.

## Power Supply Connection



## Tools









Ratcheting Cutter

Electric Screwdriver

ver

Brush

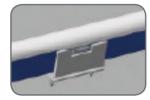
Portable Silicone Glue

# Simple Version End exit Find cap End exit End exit

## Self-locking Aluminum Mounting Kit







Push the light into the Aluminum track



Power the light to ensure that it is working properly

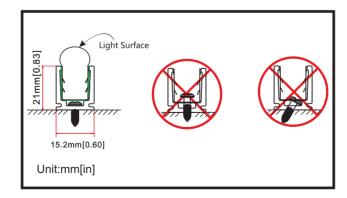
Aluminum track with grip plate

Aluminum track only

It is recommended to use Aluminum Track with Grip Plate to install the neon light.

Installation Face and Aluminum Track

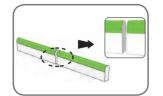
Installa	tion face	Free	Optional
B	Тор		
B	Side		
	Bottom		



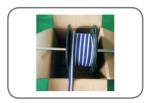
## Warning



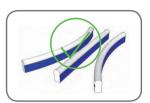
Cuttable place



cutting position has to be straight

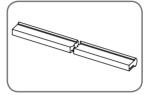


Slide a spindle into the roll and then place the roll with spindle on top of the box provided.





Gently unroll the fixture without excessive force.



No cutting Distort



No embossing operation



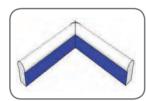
Do not twist



Do not repeatedly bending This will damage the circuit



Do not wring



Do not Bend 90°



No embossing operation

### Important

- Before installation, to make sure:
- The operator is qualified electrician.
- The light is disconnected from the power supply and the product remains unpowered.
- Do not do live-line working during installation.
- Do not use any organic chemical solvents.
- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Treatment the ends and the circuit connection points with insulation, waterproof and anti-corrosion in the installation.
- To avoid air bubbles when applying glue;
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- Only the professional for installation and maintenance.



## Packaging Information

#### Method 1













Model No.	Net Weight / CTN	Gross Weight/ CTN	Quantity / CTN	Shipping Dimension
LED Neon <sup>10</sup> - 1225 RT(15m)	8.5 (±10%) kgs	12.31(±10%) kgs	2 rolls	380*350*350mm

#### Method 2



Model No.	Net Weight / CTN	Gross Weight/ CTN	Quantity / CTN	Shipping Dimension
LED Neon10 - 1225 RT (30m)	8.4 (±10%) kgs	12.31(±10%) kgs	1 roll	390*390*325mm



# Packaging Information of Accessories (Optional)

#### **Simple Version**

Picture	Model No.	Quantity / CTN	Carton Size(mm)	Net Weight(Kg)	Gross Weight(Kg)
	End exit	250	390*390*325	13.00(1±10%)	14.50(1±10%)
j <sup>2</sup>	Bottom exit	250	390*390*325	13.25(1±10%)	14.85(1±10%)
	Right side exit	250	390*390*325	13.25(1±10%)	14.85(1±10%)
	Left side exit	250	390*390*325	13.25(1±10%)	14.85(1±10%)
9	End caps	1000	375*375*200	7.50(1±10%)	8.50(1±10%)
	1m Aluminum track of three grip plates and mounting screws	50	1100*185*185	12.50(1±10%)	13.80(1±10%)
1	2m Aluminum track of nine grip plates and mounting screws	50	2100*185*185	25.30(1±10%)	27.30(1±10%)
	1m Aluminum track	50	1100*185*185	12.20(1±10%)	13.50(1±10%)
	2m Aluminum track	50	1100*185*185	24.40(1±10%)	26.40(1±10%)
	3.5cm Aluminum track with grip plate	1250	390*390*325	12.20(1±10%)	13.50(1±10%)
	3.5cm Aluminum track	1250	390*390*325	9.87(1±10%)	11.18(1±10%)
	Splice Connector	800	375*375*200	9.52(1±10%)	10.52(1±10%)
x	L Connector	500	375*375*200	9.55(1±10%)	10.55(1±10%)
	Grip Plate	2000	375*375*200	3.40(1±10%)	4.40(1±10%)
-	923L	150	375*375*200	6.75(1±10%)	7.80(1±10%)

#### Note:

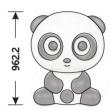
The difference of each product version is in the fittings It is recommended 2 sets mounting accessories per meter Aluminum track.

Examples

#### To make a luminous panda with N2-4

1.Panda, seeing the picture on the right.

**←** 755.0 →



#### 2.To calculate the outline length

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To transform the pattern into strokes, as shown in the figure on the right; the black circle is as the starting point, and the arrow is as the path direction; To calculate the length of each stroke

L1=(Actual length)+100mm(Tolerance)=1842mm≈1850mm; L2=(Actual length)+300mm(Tolerance)=6020mm≈6050mm;

#### Measurement method

- Import the drawing into CAD software to measure the length.
- Use a rope to walk along with the outline of the pattern and then
- measure the length of the rope.
- Do not use the product itself for the walking along.

#### Note:

Tips

- "≈" means actual cutting length might be longer.
- The tolerance could be adjusted, and make sure the cutting length is longer than actual length.

#### 3.Unpacking

- To check the product information on the label, such as model number, color, voltage etc.
- Slide a spindle into the roll and then place the roll with spindle on top of the box provided.
- Cut only from the cutting mark





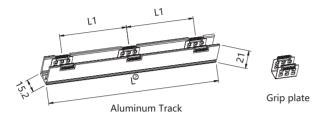


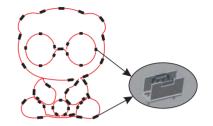
Gently unroll the fixture without excessive force.





#### 4.Install Aluminum Track







	35 <sup>°</sup>
-	50 <sup>©</sup>

Pictures

#### Note:

- The length of Aluminum track is 35mm with one grip plate
- Aluminum track length and interval of grip plate (L1) are according to customer nee

Actual length L(mm)

#### 5.Install Light

After the product is installed, cut off the excess light along the cutting position and install the end cap. Refer to page 11 or 16 for the installation method

6.Power the light to ensure that it is working properly.

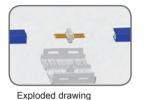


#### **Other Cases**



## Appendix: Product Installation

#### Splice connector





Insert the pin (NOTE:Pin should be on the back of PCB)



Apply glue on the joint of strip and the housing connector, and then put the strip into the housing

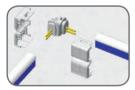


Close the housing after applying glue

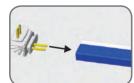


Final picture

#### L connector



Exploded drawing



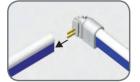
Insert the pin (NOTE:Pin should be on the back of PCB)



Apply glue on the joint of strip and the housing connector, and then put the strip into the housing. (Note: The arrow on the housing points to the power connector)



Close the housing after applying glue



Insert the pin (NOTE:Pin should be on the back of PCB)



Apply glue on the joint of strip and the housing connector, and then put the strip into the housing. (Note: The arrow on the housing points to the power connector)



Close the housing after applying glue on the joint again.



Final picture

#### Note:

- To have waterproof and insulation treatment at every connection with 10g silicone glue.
- Make sure the pin have a good contact with the copper foil
- "Pin the side" means the PCB is on this side, and the pin should contact well with the PCB

## Appendix: Product Installation

#### **Simple Version**

# Power Connector (End Exit)



Exploded drawing



Insert the pin (NOTE:Pin should be on the back of PCB)



Apply glue on the joint of strip and the housing connector, and then put the strip into the housing



Close the housing after applying glue

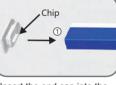


Final picture

#### End cap



Exploded drawing



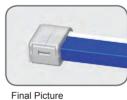
Insert the end cap into the strip (Note: The chip has to go to the back of the PCB board)



Put glue at the joint of strip and the housing



Close the housing after putting the glue on the end.



#### Note:

- It has to finish all the silicone glue at every re-connections for waterproof and insulation.
- Give it good attachment when chips and board is attached.

#### Warning:

• To achieve the best waterproof result, MUST FILLING IN THE HOUSING WITH ENOUGH GLUE.



## Appendix: Product Installation Steps

# Simple Version

#### Power Connector (Bottom Exit)



Put the Bottom cable into the Neon Flex.



Put the BV-923 glue into the housing and the connection point.

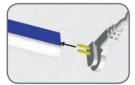


Put the glue filled housing under the connection point and close the housing tidely.



Final picture

#### Power Connector (Right Side Exit)



Put the right cable into the Neon Flex.



Put the BV-923 glue into the housing and the connection point.



Put the glue filled housing under the connection point and close the housing tidely.



Final picture

#### Note:

- It has to finish all the silicone glue at every re-connections for waterproof and insulation.
- Give it good attachment when chips and board is attached.

#### Warning:

• To achieve the best waterproof result, MUST FILLING IN THE HOUSING WITH ENOUGH GLUE.

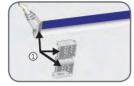
## Appendix: Product Installation Steps

#### **Simple Version**

#### Power Connector (Left Side Exit)



Put the Bottom cable into the Neon Flex.



Put the BV-923 glue into the housing and the connection point.



Put the glue filled housing under the connection point and close the housing tidely.



Final picture

#### Note:

- It has to finish all the silicone glue at every re-connections for waterproof and insulation.
- Give it good attachment when chips and board is attached.

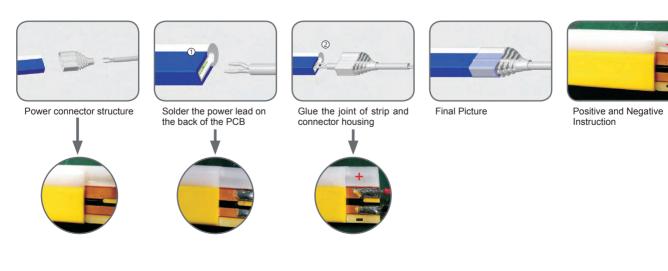
#### Warning:

• To achieve the best waterproof result, MUST FILLING IN THE HOUSING WITH ENOUGH GLUE.

## Appendix: Product Installation Steps

#### Silicone End Version

#### **Power Connector**



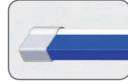
#### End Cap





End Cap Structure

Glue at the end of strip, put



Final picture

#### Note:

- It shows where the board is. So when putting the chips, Please give it good attach.
- It has to finish all the silicone glue at every re-connections for waterproof and insulation.

the end cap

#### Warning:

• To achieve the best waterproof result, MUST FILLING IN THE HOUSING WITH ENOUGH GLUE.

## Example: Power connector installation

#### **Simple Version**



Cutting from the cutting mark



Keep the connector tightly against the strip. As the above picture showed there is bare copper foil on the back of the PCB



Insert O-ring



Apply glue and make sure no air bubbles.



Insert gasket



Put on the snap cover, press it tightly after the glue is solidified, and then close the snap cover.



Apply glue on the joint



Power the light to ensure that it is working properly after the glue is completely solidified.

#### During the operation, please note:

It is possible that the cutting mark on the rubber is not matched with the cutting line on PCB. You could find the cutting mark, along it, cut slightly on top of the light. Follow the line on top, cut open about 4mm depth on the opposite of cutting mark. Gently open the cut and observe where the inside cutting mark (black line) is.Cut off along with the black line.





# Example: Power connector installation

#### **Incorrect Operation**

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Wrong cutting position may cause short circuit



Pin shift may cause short circuit



The pin is contacted with LED which may cause a short circuit or light failure.