

Tape Light Indoor VE Type Instruction Manual

We will appreciate for your purchasing 'Tape Light Indoor VE Type'. Please carefully read this manual before use and fix install correctly and safely.

Warning

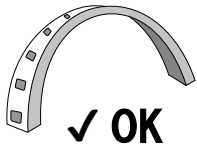
Read this section carefully to prevent electrical shock, fire and other hazard.

- Qualifications are required to do electrical works. Check the laws of your country.
- Input voltage is 24V DC only. Do not apply other voltage such as AC power.
- Do not disassemble or alter the product.
- Turn off the power before installing or handling the product.
- Do not put screws into the products directly. It will cause damages. Please refer to "Installation Method".
- Please do not perform the following actions on the product.
 - Excessive bending and twisting of the product.
 - Dropping and strongly striking the product.
- Do not install or handle the product with wet hands.
- The temperature rise of the product is influenced with the capacity and the distance from housing. Ambient temperatures must remain the product specification.
- This product is not water resistance. Do not install the product in a location where water is splashed or underwater.
- The product can not be used in the atmosphere of corrosive gas and flammable gas, like the following.
 - Area with synthetic rubbers, cardboards, and other materials containing Sulphur.
 - Area with hot springs containing Sulphur.
- If there is any trouble with the product, please immediately turn off the power and contact the dealer or installer.
- The product can not be cut at site.

Precautions

- Please be careful that eyes might be hurt when you look straight at light emitting part.
- Please be careful about static electricity. It will damage LED's.
- The product is vertical bending type. Please do not bend the product toward horizontal direction. It may cause the failure.

Vertical bending : OK



Horizontal bending : NG



- Please note that there is some variation in color among LED's.
 - The white of RGB LED, and the white of single-color LED's is different in hues.
 - The balance of emitted light color may change over time.

Specification

Product

| | | | | | | |
|-----------------------|--|-------|-------|-------|-------|-------|
| Product Name | Tape Light Indoor VE Type | | | | | |
| Product Number | TMV30-10**K (1000lm type), TMV30-06**K (600lm type) (*"W" type: TMV30-10**KW, TMV30-06**KW) | | | | | |
| ** | 22 | 27 | 30 | 35 | 40 | 50 |
| Color Temperature | 2200K | 2700K | 3000K | 3500K | 4000K | 5000K |
| Input Voltage | DC24V | | | | | |
| Power Consumption | 11W/m (1000lm type), 6W/m (600lm type) | | | | | |
| Operating Temperature | -10~40 °C (Indoor Use only) | | | | | |
| Dimensions | Refer to dimensional drawing. | | | | | |
| Weight | 90 g /m | | | | | |
| Bending Radius | R30 mm or more. Vertical bending only. | | | | | |
| LED Pitch | 28.5 mm | | | | | |

Accessory

| Parts Name | Number on parts | | Note |
|--------------------|-----------------|-----------|---------------------|
| | L 5044.5mm | L 10089mm | |
| Endcap | 5 | 10 | for end part cap |
| Lead wire Black | 5 | 10 | for power supply V- |
| Lead wire Red | 5 | 10 | for power supply V+ |
| Adhesive Tape | 5 | 10 | for endcap adhesive |
| Instruction Manual | 1 | 1 | duplex printing |

Recommended total length connectable per power supply

As for the product's connectable length to a power supply, please refer to the following formula.

$$L = R \times 0.7 \div P$$

L: The product's connectable length to a power supply (m)
R: Rated wattage of a power supply (W)
P: Power consumption of a product (W/m)

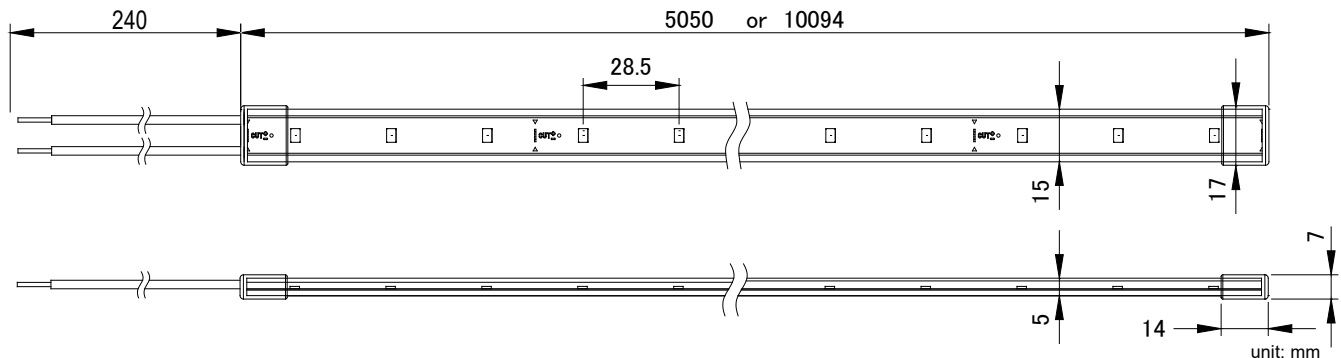
e.g. $100(W) \times 0.7 \div 11(W/m) = 6.3(m)$

(100W power supply can be used for product's length 6.3m as maximum.)

Options

| Product Name | Product Number | Remarks |
|---------------------------------|----------------|---------------------|
| Poly carbonate Rigid Channel | FJS00-22 | 1 pcs. L = 1000 mm. |
| Poly carbonate Mounting Bracket | FJB00-21 | 5 pcs per pack. |

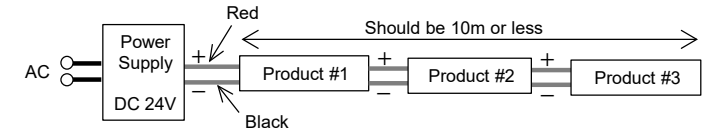
Product 2D picture



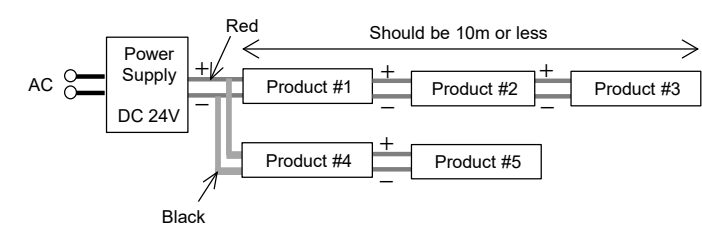
Wiring Method

- Total length of serial connected products should be 10 m (10094 mm) or less. If two or more products are used, connect them in parallel so that the serial length does not exceed 10 m.
- Confirm the power consumption of the products, and use the power supply that can drive all the products.
- System Diagram

•When total length of the products is less or 10 m, serial connection is available.



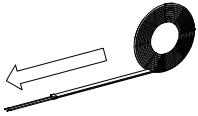
•When total length of the products is more than 10 m, parallel connection is required.



Cutting Method

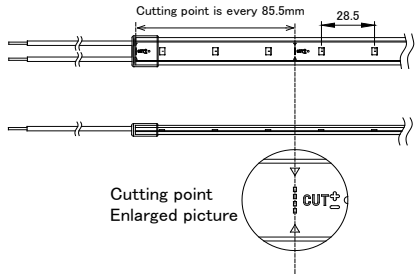
Please cut the light in the following procedures.

1. Please pull out the tape light for the required length.



[Attention]
Please do not strongly pull it too much.

2. The light can be cut at every 85.5mm.
The cutting point are as the follows.



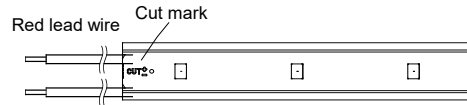
[Attention]
Please work carefully.
Once you cut it, you cannot undo it.

How to Attach the Lead wires

1. Please set Tape Light Indoor as follows

[Direction when attaching the Lead Wires at One Ends]

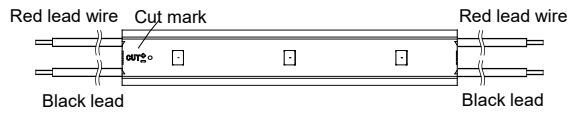
Please find the **CUT mark** from the end and put it on the left hand side.



Black lead wire

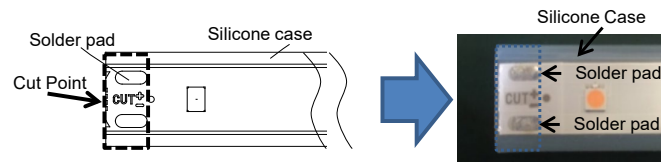
[Direction when attaching the Lead Wires at Both Ends]

Please find the **CUT mark** from the end and put it on the left hand side.

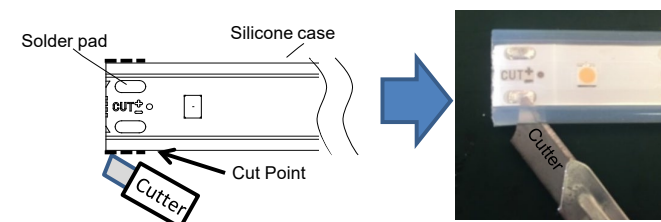


2. Please cut Silicone case.

- 2-1. Please cut a silicon case so that solder pad goes out of the silicon case.



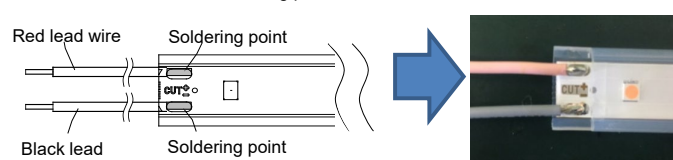
- 2-2. Please let a cut enter with a cutter like the chart below at both sides of the silicone case.



- 2-3. Please lift up the Silicone Case and cut out.

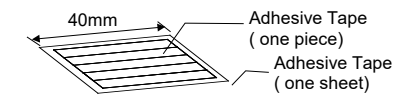


3. Please solder Lead wire on Soldering point as follows.



Attachment of Endcap

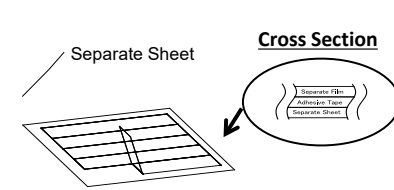
1. Please set up one sheet of adhesive tape.



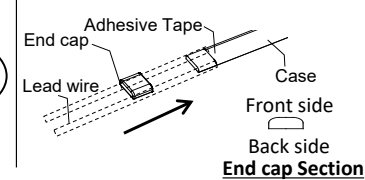
3. Please attach adhesive tape to a case.



2. Please tear off one piece of adhesive tape from a sheet.



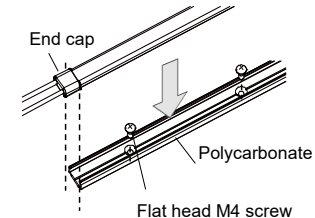
4. After having torn off a detachment film of the adhesive tape again, please attach end cap to a case.



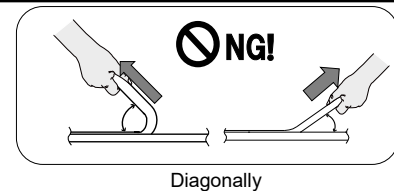
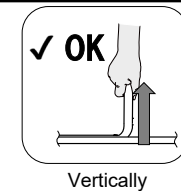
Installation Method

[Installation with the Polycarbonate Rigid Channel (option)]

1. Cut the rigid channels as needed, and fix them to the location with flat head M4 screws (commercial item).
Do not put screws into the products directly.
2. Slide the lamp into the channel except end caps.



[Attention]
• We DO NOT recommend to remove the product from the channel after the installation.
• If reinstalling is necessary, lift up the product slowly and pull it out vertically with your hands.
• DO NOT pull out the product diagonally.



[Installation with the Polycarbonate Mounting Bracket (option)]

1. Install the product with the Polycarbonate Mounting Bracket (optional) and flat head M4 screws (commercial item).
The recommended distance between the brackets is about 180 mm.

