



# Luci Power FLEX Indoor

15mm pitch (30mm Cut Substrate) (C)  
20mm pitch (40mm Cut Substrate) (C)  
30mm pitch (66.6mm Cut Substrate) (C)

## Instruction Manual

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### Safety Cautions

The following is the safety cautions to prevent any harms or damages to others.  
If the product is used against cautions, it may cause damages.



**Electrical work certificate is needed to install and inspect this product.**  
**Please ask electrician for the installation.**



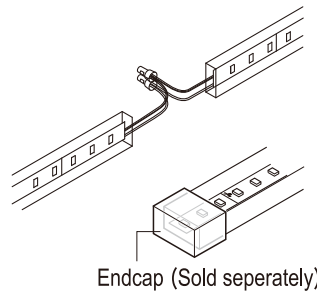
Please use DC24V power supply.  
Do not use other power supplies such as AC220~240V.



Please turn off all the powers when installation and inspection.  
Do not connect or disconnect the lead wires with its power on.



If the charges are in wrong direction,  
electric resistances will become  
hot and lighting will be destroyed.  
Please connect the lead wires  
with same color and insulate  
with sleeve insulation tape  
shrinkage tube.



Do not place a heatable object such as a cloth or paper or an insulating material on  
top of the lighting device or cover it with such a material. It may cause the device not  
to turn on or fire.  
Do not put a piece of metal or a flammable object in clearance of the lighting device.  
The outline of the lighting device main unit must not contact equipment in or out of  
the ceiling. It may cause fall, electric shock, or fire.  
Do not operate the device with wet hands. It may result in an electric shock.



Important notice for storage  
Observe the storing temperature of our light fittings: 0 °C to 55°C  
Please do not store the carton or the packages of our light fittings in the following  
conditions:  
- wet location  
- places of high humidity  
- places with much litter or dust  
- places of exposing against sun light directly  
- places a solvent such as a paint liquid is stored

During storing period, please do not leave the cartons or individual packages  
vertically.  
Please do not open individual package until just before installing light fittings to  
avoid any damage to the light fittings.

Please do not keep the carton in horizontally.  
Please do not place heavy object on the carton.  
Please do not use our light fittings as the working light during construction period.



When this product is cut,  
please use endcaps to coat the surface.



Please rainproof using rainproof endcaps and  
lead wire coating when this product is used outside.



This lamp fitting is for indoor use only.  
Do not use in the following environments:

- A location at high temperature (+35°C or higher)  
(usage environment temperature is 0°C to +35°C.)
- A location with high humidity.
- A dusty location.
- A location with corrosive or inflammable gases.
- A location where the product is exposed to direct sunlight.
- A highly airtight location.
- A location where the product is directly exposed to salt water or  
organic solvents.
- A location subject to the effects of electric or magnetic fields.
- A location subject to intense vibration or shock, or a location sub  
ject to continuous vibration.



Please do not do the followings to the product.  
- Cut where there is no cut-mark  
- Decompose or modify  
- Pull or twist strongly  
- Push strongly  
- Bend more than the max angle(R50mm)



When there is abnormal situations, please cut off  
the power immediately, consult with electricians,  
and do not touch the lighting with hands.

### Please read before the usage

- For safety, do not directly view the LED light source.
- The minimum allowable bend range of this lamp fitting is R 50 mm.  
This means that the lamp fitting can be bent at most to a circle of diameter 100 mm.  
See the illustration in the lower right.
- When the air temperature is low, the lamp fitting may become stiff.  
Forcibly bending the fitting may cause damage. In this situation, it is recommended that you connect the lamp fitting to the power supply, turn on the light, wait until it warms  
up, and then bend.
- When handling the product, take care not to bend or twist it.  
This may cause malfunctioning. When mounting on a ceiling, under a shelf, or on a wall, mount tightly with no looseness or sagging.
- Use a mounting rail (option) to mount the lamp fitting in the mounting position.
- To mount the mounting rail in the mounting position, use mounting clips (option) and screws (commercially available).
- If you are using an instantaneous adhesive agent, wipe off all foreign matter, moisture, and oil from the mounting rail and mounting surface.  
Dirt on the surfaces to be glued may cause the mounting rails to detach.
- The product has been manufactured with the utmost care; however, please understand that slight deviations in LED color are unavoidable due to the characteristics of the  
product.
- For safety, do not directly view the LED light source.
- The minimum allowable bend range of this lamp fitting is R 50 mm.  
This means that the lamp fitting can be bent at most to a circle of diameter 100 mm. See the illustration in the lower right.

### Maintenance and Inspection


- Lighting apparatus has a life span.
- Degradation occurs inside after 8-10 years of installation even when the apparatus looks fine from the outside.  
Parts of the lighting apparatus degrade due to heat when the light is on for a long time. This causes not only  
safety issues, but also reduces power efficiency and it is recommended to have regular maintenance and inspection.
- Cleaning and inspection should be performed at least once every 6 months.
- Inspection by a specialist, such as a product contractor, should be performed at least once every 3 years.
- If the apparatus is used for a long time without having an inspection, there is a small possibility that it could lead to  
fuming, igniting, electric shock and the like.

#### Inspection Methods

- Is LED operating normally?
- Is there any unusual smell, sound or heat?
- Are there any cracks, splits, or detached parts on any parts or joints?

#### Cleaning Method

- Lightly wipe the lighting apparatus with a soft cloth.
- To best clean the apparatus, wipe dirt with a soft cloth which has been soaked in a neutral detergent diluted with  
water and wrung firmly. To finish off, wipe it with a damp cloth and dry it.

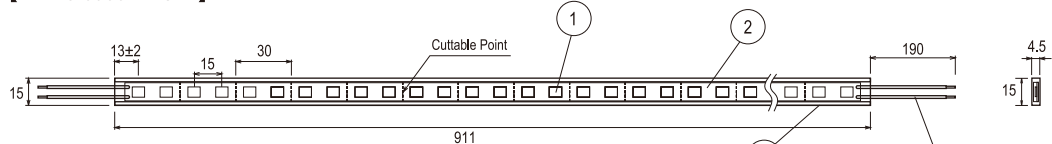
**This product cannot be  
bent less than this angle** 

## Product specifications

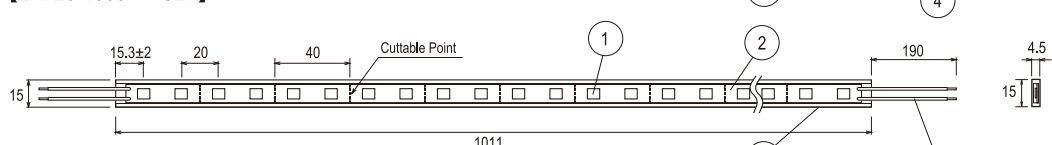
※unit of measure=mm

### Front view

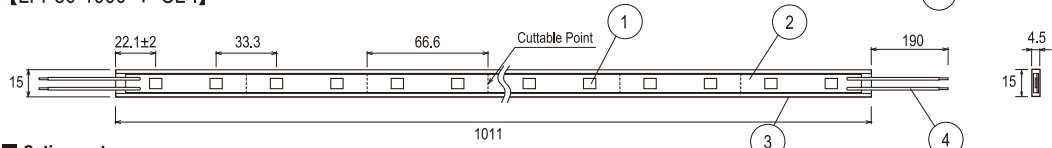
【LFP15-0900-※-CL-I】



【LFP20-1000-※-CL-I】



【LFP30-1000-※-CL-I】



### Side view



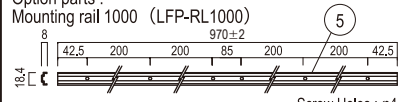
### Input voltage

DC24V

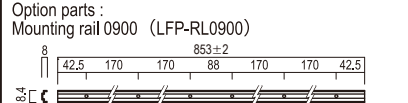
#	Item	Name Materials etc.
①	LED	SMD type
②	Tape Substrate	FPC
③	Body	Flexible Acrylic, Clear
④	Lead Wire	Black+, White-
⑤	Mounting rail	AES
⑥	End cap	Polycarbonate, Clear
⑦	Mounting clip for rail	Polycarbonate, Clear
⑧	Mounting clip	Polycarbonate, Clear

### Option parts

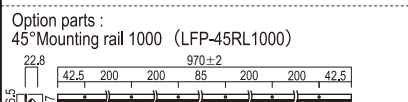
Option parts :  
Mounting rail 1000 (LFP-RL1000)



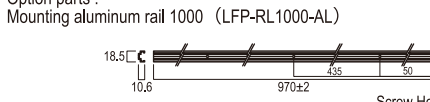
Option parts :  
Mounting rail 0900 (LFP-RL0900)



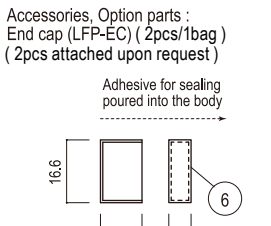
Option parts :  
45° Mounting rail 1000 (LFP-45RL1000)



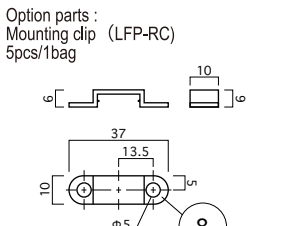
Option parts :  
Mounting aluminum rail 1000 (LFP-RL1000-AL)



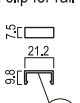
Accessories, Option parts :  
End cap (LFP-EC) ( 2pcs/1bag )  
( 2pcs attached upon request )



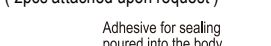
Option parts :  
Mounting clip (LFP-RC)  
5pcs/1bag



Mounting clip for rail  
x5pcs



Adhesive for sealing  
poured into the body



05/30/2017

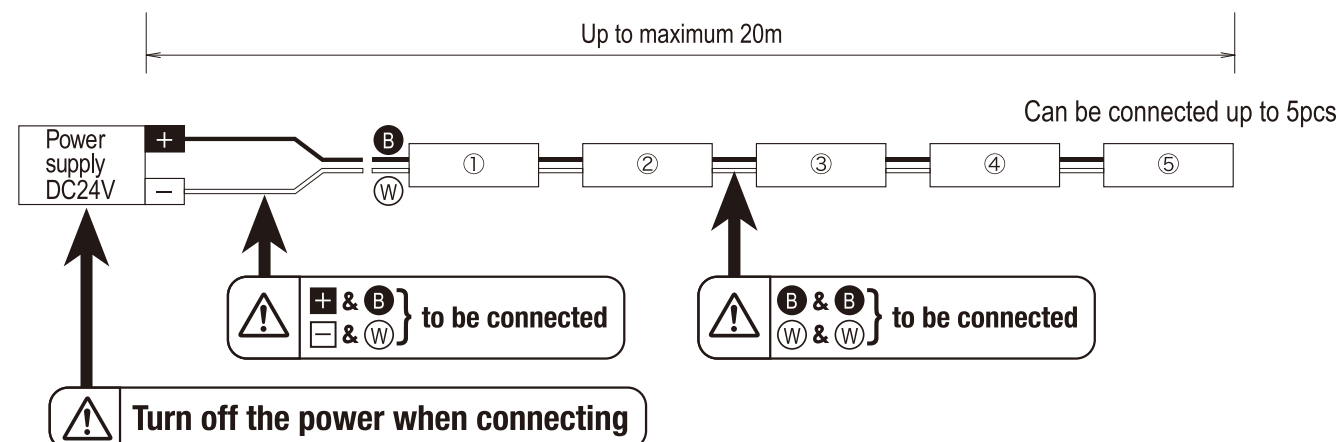
Item / Product Name	Luci Power FLEX		
LED pitch	15mm pitch	20mm pitch	30mm pitch
	Indoor		
Model No.	LFP15-0900-※-CL-I	LFP20-1000-※-CL-I	LFP30-1000-※-CL-I
Power consumption	13.9W/900mm	10.5W/m	6W/m
Input current	580mA (max)	480mA (max)	250mA (max)
Number of LEDs	60 LED	50 LED	30 LED
Weight	55g	60g	60g
Environment	Indoors (No Condensation)		
Operating temperature	0°C~+35°C (No Condensation)		
Max. sets connectable	4.5m	5m	5m
Material (Body)	Soft acrylic		
Min. allowable bend range	R50mm		
Accessories	End cap × 2 ( ※upon request )		
Option parts	Mounting rail, Mounting clip, Mounting clip for rail, End cap, Sealing glue, Instant glue for mounting		
Light source color (※)	White(W), Warm white 3500K(WW), Warm white 3000K(L30), Warm white 2700K(L27), Warm white 2400K(L24)		
Certification	CE		
Dimmable	Yes		

Power supply			
Use appropriate power supply. Max connectable Unit : Max 5pcs (5m)			
15mmP	20mmP	30mmP	Output
~2.5	~3	~5.8	50W
~5	~6.6	~11.6	100W
~7.5	~10	~17.5	150W

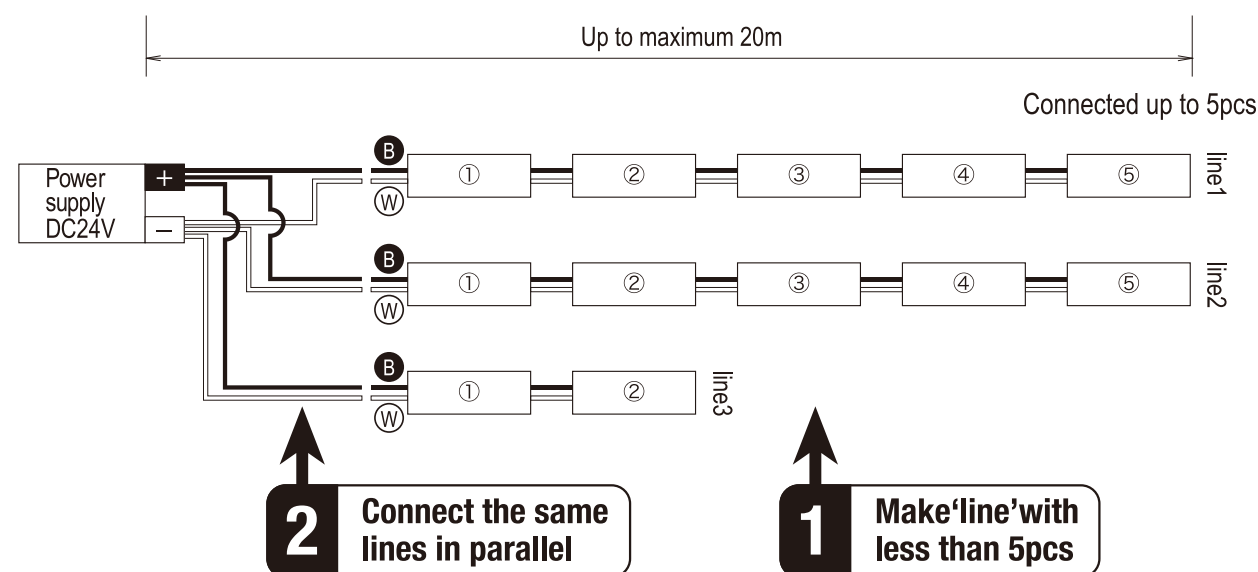
Cables
Recommended : VCTF-2C 0.75sq
※Cables are not included

## Connecting lamp fittings

### For 5 devices or less



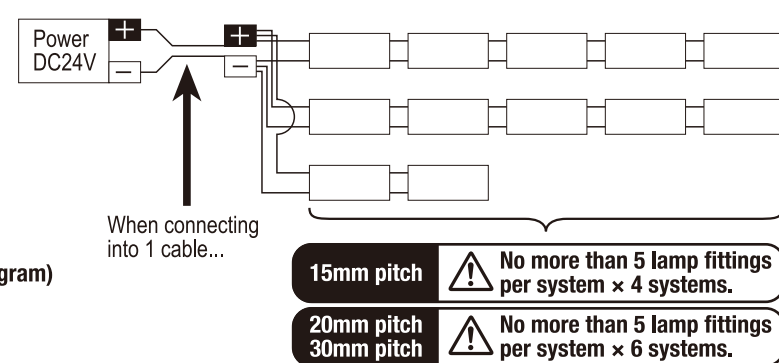
### For 6 devices or more



※Amount of the connecting device depends on the power output(W).  
 ※Luci Power FLEX can be connected up to 5pcs. The max distance between the power to the last device is 20m.  
 ※Divide into multiple lines when the amount exceeds more than the max connectable units.

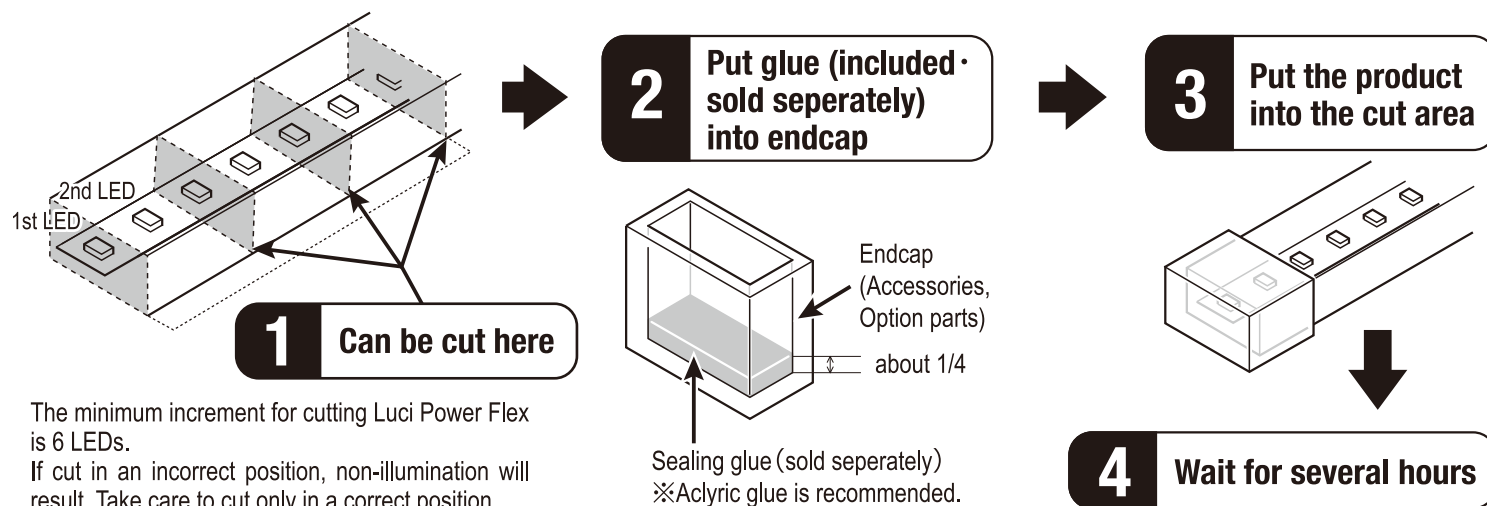
## Cautions

- It is recommended to connect directly same lines. (diagram above)
- When connecting multiple lines into one, please connect less than 5 pcs\*4 lines (15mm pitch), 5 pcs\*6 lines (20mm pitch and 30mm pitch). (right diagram)



## Cutting of lamp fitting

The lamp fitting can be shortened by cutting in increments of 6 LEDs.

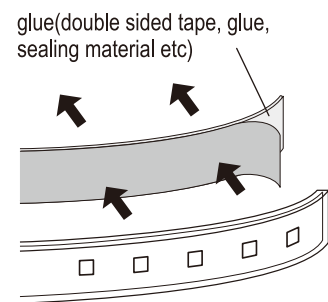


## Installing the product

### Usage when flexed

#### Mounting with glue

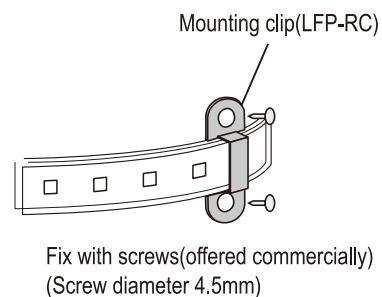
Use glue to mount the product when screws cannot be used.



※Acrylic materials are recommended for glue

#### Screw fixing

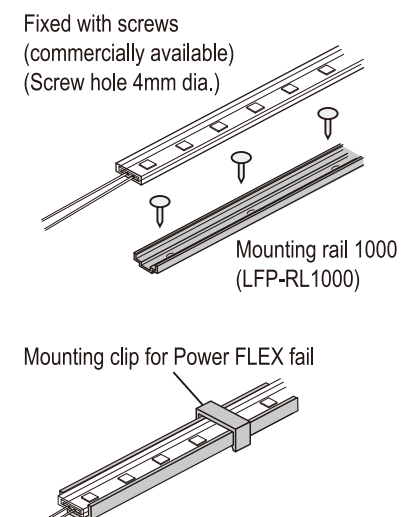
Mounting clip have screw holes so use them to fix the product.



### Direct usage when flexed

#### Mounting with screws

Fix with mounting rail or clip. However, both cannot be used at the same time.



### Caution

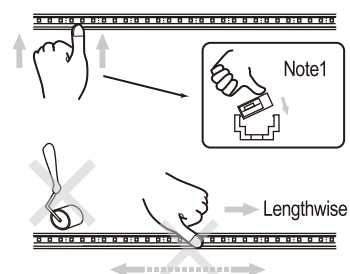
When inserting the lamp fitting into the rail, do not press with excessive force, and exercise caution not to damage the LEDs, electronic components, board, and other parts with your fingers or a tool. Risk of LED non-illumination, wire breakage and other failure.

### Important points for rail mounting

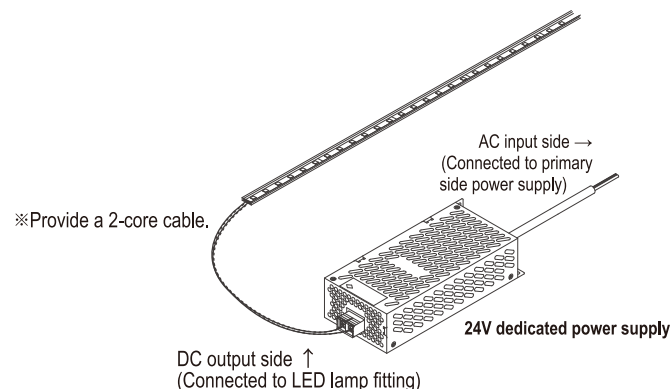
**Do not push lengthwise into the rail**

Caution! If tension is applied for an extended period in the horizontal direction, non-illumination due to circuit breakage and other damage to the lamp fitting may occur.

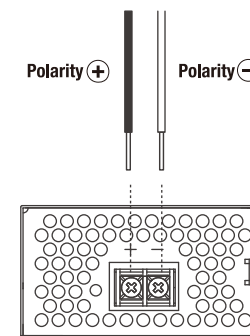
- If you are inserting a tube into the rail, insert the side that is least thick first. (Note1)
- Do not use a roller or other tool to insert by pressing and extending the tube lengthwise along the rail.
- When inserting the tube, press down perpendicular to the rail on the thickest side of the tube with your thumb.
- The tube is a soft material. Do not apply stress to the top surface on which the LEDs are attached.
- To remove the tube, insert your finger between the rail and tube and gently detach the tube.



## Connecting to the power supply



### Ex: 150W dedicated power supply connection section details



■ When wiring, make your selection by paying careful attention to the cable used at the input and output. When current flows in a long cable, the loss (heat generation) is generated by resistance, etc.

■ When the cable is bundled, heat dissipation becomes poor and the temperature becomes extremely high. When bundling 5 cables or more, connect by lowering the load factor (number of connected devices).