Luci Flat FLEX F Indoor

10mm pitch
16mm pitch

Instruction Manual

⚠ 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 damage, electric shock, smoke, or fire.

⚠ **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.

Endcap (Sold seperately)
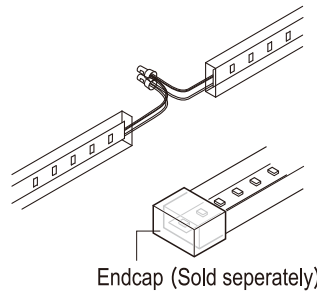
🚫 Do not place a flammable object such as a cloth or a paper or an insulating
material on top of the fixture or cover it with such a material. It may cause
the LED fixture not to turn on or fire.

Do not put a piece of metal or a flammable in clearance of the LED fixture.

Do not place or install LED fixture in close contact with other electric equipment
in or out of ceiling area to prevent fall, electric shock or fire caused by vibration
from electric equipment.

🚫 Important notice for storage

Observe the storing temperature of our LED fixtures: 0 °C to 55°C
Please do not store the carton or the packages of our LED fixtures
in the following conditions:
- wet location- places of high humidity
- places with much litter or dust
- places exposed to sun light directly
- places with solvent such as a paint liquid is stored or volatile materials are
  volatilized.

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

Please do not place heavy object on the carton.
Please do not use our LED fixtures as the working light during construction period.

⚠ When this product is cut, please use endcaps to ensure
proper protection of the LED fixture against dirt and moist.

🚫 This product is indoor use only.
Do not use in the following environments:

- A location at high temperature(35℃ or higher)
  (usage emvironment temperature is 0℃ to +35℃).
- A location with high humidity.
- A dusty lovation.
- A location with corrosive or infammable gasses.
- A location where the product is exposed to direct sunlight.
- A highy airtight location.
- A location where the prosuct 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
  subject 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 LED fixture 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 aii dust, 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 deviantions in LED color are unavoidable due to the characteristics of the product.

Maintenance and Inspection

· LED fixture has a life span.
· Degradation occurs inside after 8-10 years of installation even when the LED fixture looks fine from the outside.
  Parts of the LED fixture 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 LED fixture is used for a long time without having an inspection, there a small possibility that it could lead to
  smoke, fire, electric shock.

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
· Wipe the LED fixture lightly with a soft cloth.
· To best clean the LED fixture, wipe dirt with a soft cloth with has been soaked in a neutral detergent diluted with
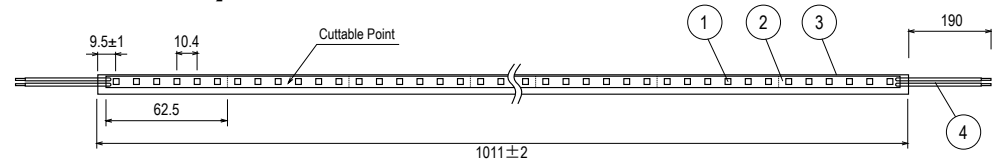 water squeegeed dry. To finish off, wipe it with a damp cloth and dry it.

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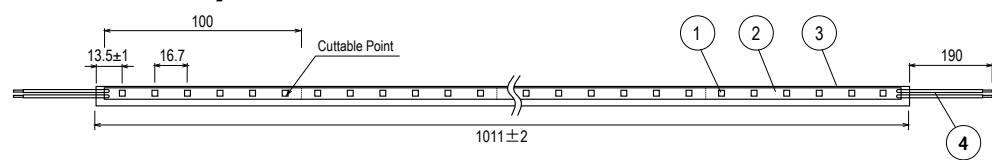bent less than this angle** ➡

Product specifications

※unit of measure=mm

■ Front view

【LFTF10-1000-✳-CL/DF-I】

9.5±1 10.4 Cuttable Point 190
62.5
1011±2

■ Side view CE

Input voltage
DC24V

【LFTF16-1000-✳-CL/DF-I】

13.5±1 16.7 100 Cuttable Point 190
1011±2

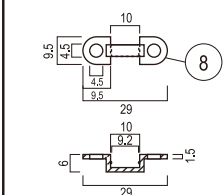| #	Item	Name Materials etc.
①	LED	SMD type
②	Tape Substrate	FPC
③	Body	Flexible Acrylic, Clear
④	Lead Wire	Black＋, White
⑤	Mounting rail	AES
⑥	End cap	Polycarbonate, Clear
⑦	Mounting clip for rail	Polycarbonate, Clear
⑧	Mounting clip	Polycarbonate, Clear

■ Option parts

Mounting rail 1000（LFT-RL1000）

970±2
7.5 42.5 200 200 85 200 200 42.5
13.4 10 2.5
Screw Holes φ3.5
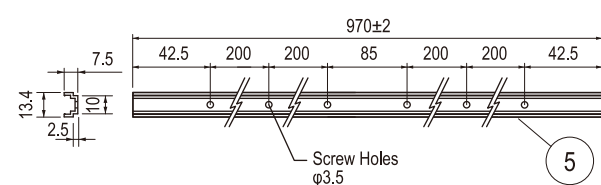
Mounting clip for rail
5pcs / 1bag
16.4
1.5 13.4
12.12
2.4 13
16
7.5
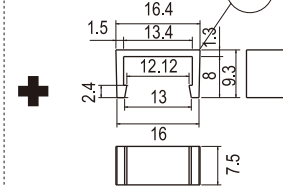
End cap（LFX-EC）(10pcs / 1bag)
(2pcs attached upon request)
Put Sealing Glue Inside The Body
10.9 12 12.3 6.2
Thickness : 0.9 ～ 1.1
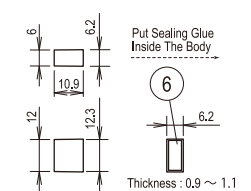
Mounting clip（LFT-RC）
10pcs / 1bag
10 9.5 4.5 9.5
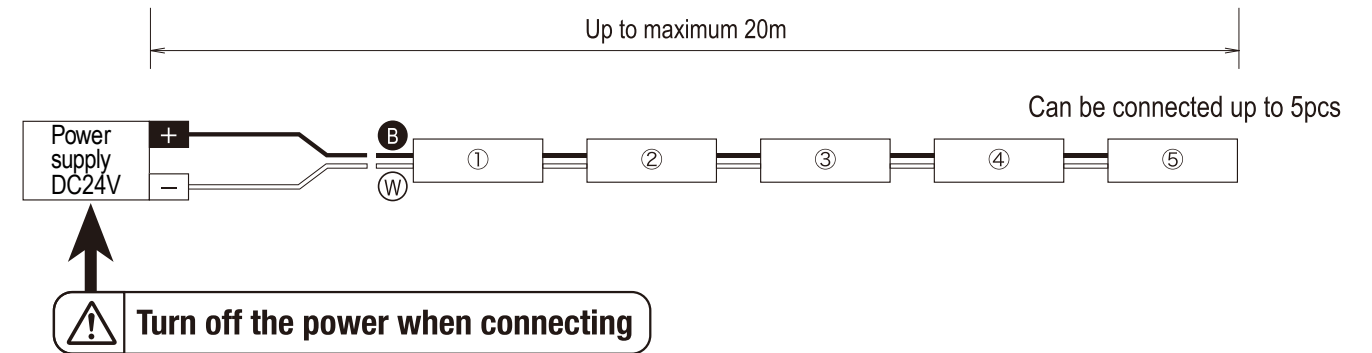29
10 6.2 1.5
29

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

Power supply
Use appropriate power supply.
Max connectable Unit : Max 5pcs（5m）

3.9W/ m	2.5W/ m	Output
～9	～14	50W
～18	～28	100W
～27	～42	150W

Item / Product Name	Luci Flat FLEX F	
LED pitch	10mm pitch	16mm pitch
	3.9W	2.5W
	Indoor	Indoor
Model No.	LFTF10-1000-✳-CL/DF-I	LFTF16-1000-✳-CL/DF-I
Power consumption	3.9W/ m	2.5W/ m
Input current	192mA（max）	120mA（max）
Number of LEDs	96 LED	60 LED
Weight	40 g	40 g
Environment	Indoors (No Condensation)	
Operating temperature	0℃～＋35℃ (No Condensation)	
Max. sets connectable	5m	
Material (Body)	Soft Acrylic	
Min. allowable bend range	R50mm	
Accessories	End cap ×2（※upon request）	
Option parts	Mounting rail, Mounting clip, End cap,Sealing glue, Instant glue for mounting	
Light source color (✳)	Day light, Natural light, White, Warm white 3000K(L30), Warm white 2700K(L27), Warm white 2400K(L24), Warm white 1900K(L19)	
Dimmable	○	

Connecting lamp fittings

For 5 devices or less

Up to maximum 20m

Can be connected up to 5pcs

Power supply DC24V ＋ − B W ① ② ③ ④ ⑤

⚠ **Turn off the power when connecting**

For 6 devices or more

Up to maximum 20m

Connected up to 5pcs

Power supply DC24V ＋ −
B W ① ② ③ ④ ⑤ line1
B W ① ② ③ ④ ⑤ line2
B W ① ② line3

2 Connect the same lines in parallel

1 Make'line'with less than 5pcs
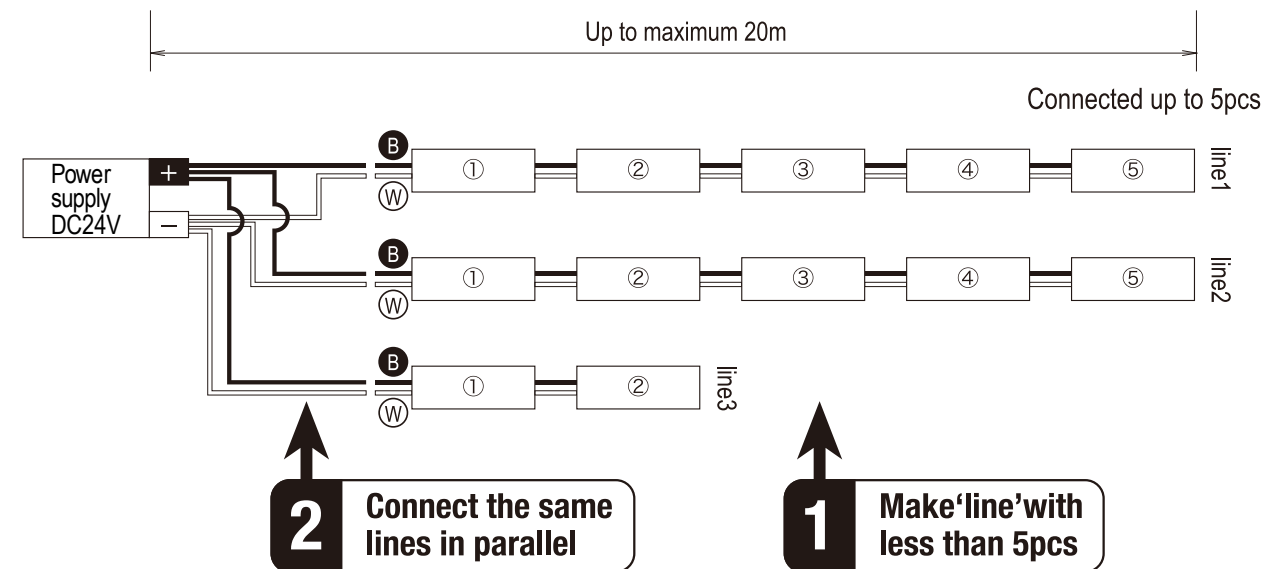
※Amount of the connecting device depends on the power output(W).
※Luci Flat FLEX F can be connected up to 5pcs. The max distance between the power to the last device is 20m.
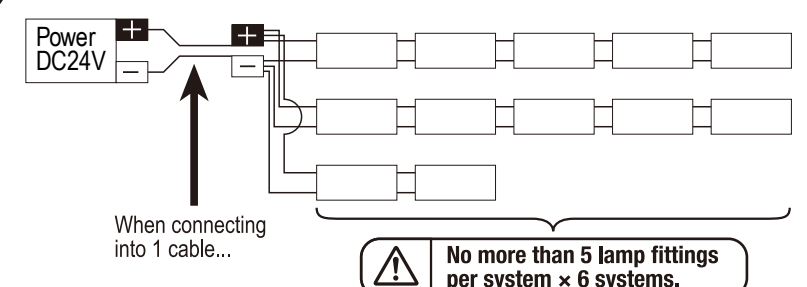※Divide into multiple lines when the amount exceeds more than the max connectable units.
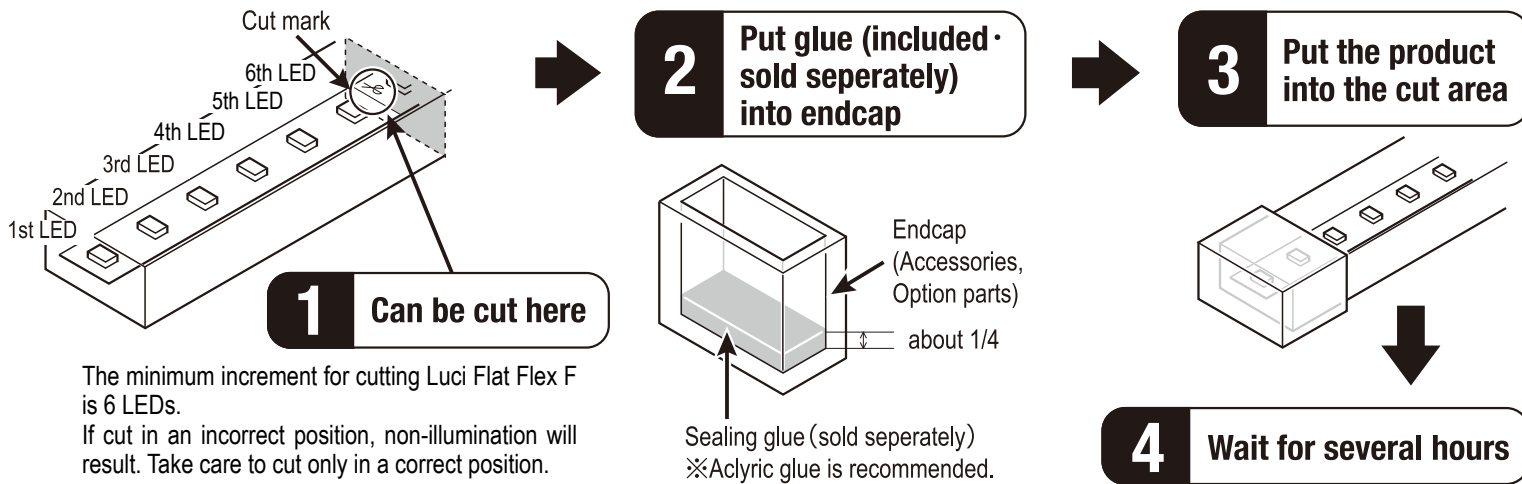
⚠ **Cautions**

・It is recommended to connect directly same lines. **(diagram above)**

・When connecting multiple lines into one, please connect less than 5 pcs*6 lines. **(right diagram)**

Power DC24V ＋ − ＋ −

When connecting into 1 cable...

⚠ **No more than 5 lamp fittings per system × 6 systems.**

Cutting of lamp fitting

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

Cut mark
6th LED
5th LED
4th LED
3rd LED
2nd LED
1st LED

1 Can be cut here

The minimum increment for cutting Luci Flat Flex F is 6 LEDs.
If cut in an incorrect position, non-illumination will result. Take care to cut only in a correct position.

2 Put glue (included・sold seperately) into endcap

Endcap (Accessories, Option parts)

about 1/4

Sealing glue（sold seperately）
※Aclyric glue is recommended.

3 Put the product into the cut area

4 Wait for several hours

Installing the product

Usage when flexed

glue(double sided tape, glue, sealing material etc)
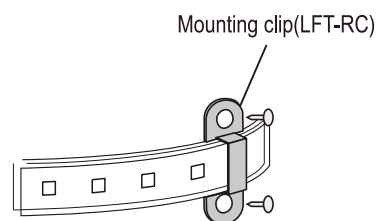
Mounting with glue

Use glue to mount the product when screws cannot be used.
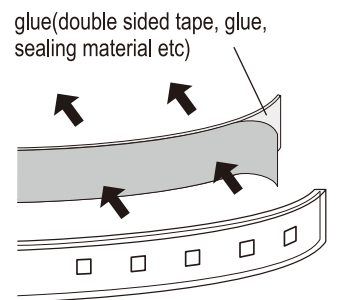
※Aclyric materials are recommended for glue

Screw fixing

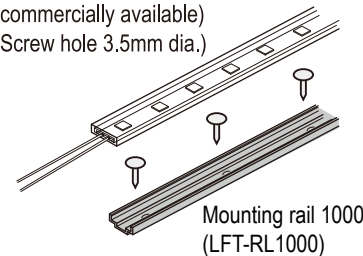Mounting clip have screw holes so use them to fix the product.

Mounting clip(LFT-RC)

Fix with screws(offered commercially) (Screw diameter 4.5mm)
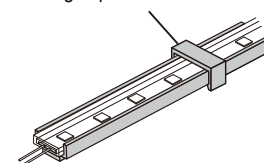
Direct usage when flexed

Mounting with screws

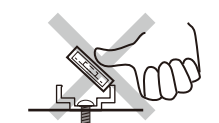Fix with mounting rail or clip, However, both cannot be used at the same time.

Fixed with screws (commercially available) (Screw hole 3.5mm dia.)

Mounting rail 1000 (LFT-RL1000)

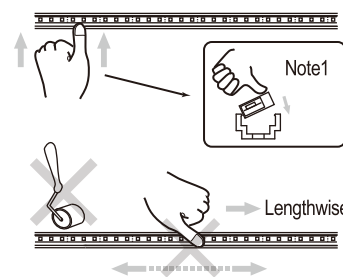Mounting clip for Flat FLEX fail

⚠ **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.
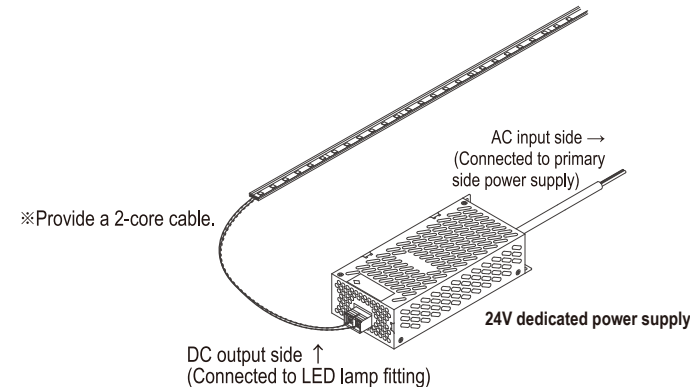
Important points for rail mounting

🚫 **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.
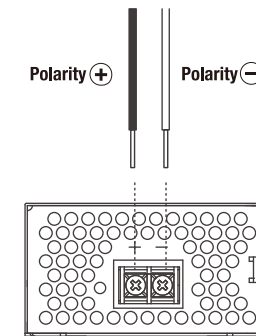
● If you are inserting a tube into the rail, insert the side that is least thick first. **(Note1)**
● Do not use a roller or other tool to insert by pressing and extending the tube lengthwise along the rail.
● When inserting the tube, press down perpendicular to the rail on the thickest side of the tube 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.

Note1

Lengthwise

Connecting to the power supply

※Provide a 2-core cable.

AC input side →
(Connected to primary side power supply)

DC output side ↑
(Connected to LED lamp fitting)

24V dedicated power supply

Ex: 150W dedicated power supply connection section details

Polarity ⊕   Polarity ⊖

■ 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).