



Luci SHIN FLEX IP65


7mm pitch • 18mm pitch

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 damage, electric shock, smoke, or fire.



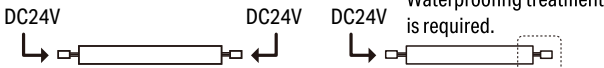
Only supply power through the lead wire on one side using the dedicated connection for this product.
Supplying power through the lead wires on both sides may cause failure and fire.




Do not supply the power through the lead wire from both sides.




Supply the power through the lead wire from one side.




DC24V DC24V DC24V
Waterproofing treatment is required.




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




Use a DC24 V power supply.
Never connect to any other power supply.
Always use a circuit breaker of suitable capacity in the power supply.
If the capacity is not suitable, the breaker may not work when abnormal current occurs, creating risk of fire.




Always shut off the main power supply before performing work or inspection.
Do not connect or disconnect the lead wires of the LED fixture while power is supplied.




Firmly insert and connect the connectors.
Incomplete connection may cause heating, smoke, and fire.
Do not touch the ends of the connectors. Risk of electrical shock.




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.




Do not install the product in the following environments:
- A location where it can be directly exposed to rain or water.
- A location where it may become submerged or remain wet for prolonged periods.




✗




Do not do the following to this product:
- Forcibly remove the product after mounting.
- Disassemble, modify or add holes to the product.
- Forcibly pull or twist the product.
- Cut or damage the power cable. Use a damaged cable.
- Press down on the product.
- Drop the product or subject the product to intense vibration or shock.
- Bend or fold beyond the minimum bending radius of 50mm.



Do not cut the LED fixture and lead wire at a job site.
To prevent water and moisture entry, ensure proper sealing at the connection of cables and the terminal of the connector.



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



Ensure sufficient space for ventilation (heat dissipation) between the LED fixture and the surrounding.
When installing the LED fixture in a box or enclosure, please provide an air ventilation hole to facilitate proper airflow and heat dissipation, ensuring that the surrounding temperature does not exceed the specified operating temperature.

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.

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 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 deviations 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 is a small possibility that it could lead to smoke, fire, electric shock.

Inspection Methods

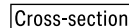
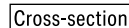
- Is LED operating normally?
- Is there any unusual smell, sound or heat?
- Are there any cracks, splits, or detached parts on any parts or joints?

Cleaning Method

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

This product cannot be bent less than this angle 

- LFY7



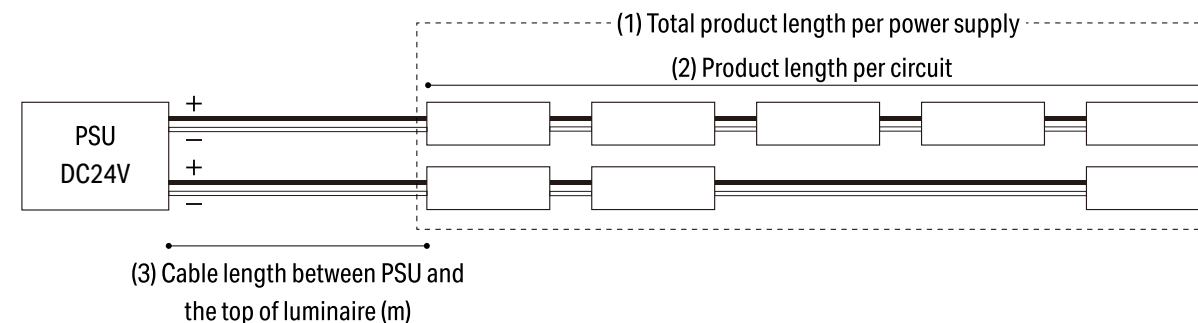
Option parts : Mounting rail 1000 for SHIN FLEX (LFY-RL1000)	Mounting clip for rail (5pcs/1bag)
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DC24V

Cables
Recommended : VCTF-2C 0.5sq
※Cables are not included

1. Total product length per power supply depends on capacity of the power supply. Recommended loading factor is 70% (without dimming) or 60% (with dimming).
2. Product length per circuit shall not exceed maximum product length per circuit. If the product length per circuit exceeds the maximum, split into multiple circuits
3. To minimize voltage drop, select appropriate wire gauge/diameter and consider the cable length between PSU and the top of luminaire referring to the following table. If longer cable distances are required, use thicker wires or reduce the loading of the lighting fixtures in the circuit.



		Cross section	0.3 sq	0.5 sq	0.75 sq
		Wire gauze	AWG 22	AWG 20	AWG 18
Product code	Power	(2) Max. product length per circuit	(3) Max. cable length between PSU and the top of luminaire at (2) Max. product length per circuit		
LFY7-T1000W*-CL-O-15	15.9 W/m	4 m	2,6 m	4,1 m	6,6 m
LFY7-T1000W*-CL-O-10	10.8 W/m	5 m	3.0 m	4.8 m	7.5 m
LFY7-T1000W*-CL-O-6	6.4 W/m	5 m	5.1 m	8,2 m	13.0 m
LFY7-T1000W*-CL-O-4	4.2 W/m	5 m	7.8 m	12.5 m	20.0 m
LFY7-T1000W*-CL-O-2	2.1 W/m	5 m	15.5 m	25.0 m	39.0 m
LFY18-T1000W*-CL-O-12	12.7 W/m	5 m	2.6 m	4.2 m	6.5 m
LFY18-T1000W*-CL-O-10	10.8 W/m	5 m	3,2 m	5,1 m	8.0 m
LFY18-T1000W*-CL-O-6	6.9 W/m	5 m	4.8 m	7.7 m	12.0 m
LFY18-T1000W*-CL-O-4	4.9 W/m	5 m	7.2 m	11.5 m	18.0 m
LFY18-T1000W*-CL-O-2	2.9 W/m	5 m	13.5 m	22.0 m	35.0 m

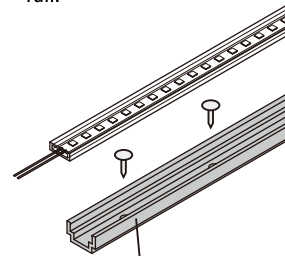
Item / Product Name	Luci SHIN FLEX									
LED pitch	LFY7					LFY18				
	LFY7-T1000W -* -CL-O-15	LFY7-1000W -* -CL-O-10	LFY7-1000W -* -CL-O-6	LFY7-1000W -* -CL-O-4	LFY7-1000W -* -CL-O-2	LFY18-1000W -* -CL-O-12	LFY18-1000W -* -CL-O-10	LFY18-1000W -* -CL-O-6	LFY18-1000W -* -CL-O-4	LFY18-1000W -* -CL-O-2
Model No.										
Wattage	15.9 W/m	10.8 W/m	6.4 W/m	4.2 W/m	2.4 W/m	12.7 W/m	10.8 W/m	6.9 W/m	4.9 W/m	2.9 W/m
Input current	663 mA	450 mA	267 mA	175 mA	100 mA	529 mA	450 mA	288 mA	204 mA	121 mA
Number of LEDs	140 LED					56 LED				
Weight	40 g					40 g				
Environment	Indoor / Outdoor IP65 (No Condensation)									
Operating temperature	0℃~ +35℃ (No Condensation)									
Max. length per circuit	4m	5m								
Material (Body)	Soft Acrylic									
Min. allowable bend range	R50mm									
Attachments	-									
Accessories	Mounting rail, 45°Mounting rail, Mounting clip, Power supply cable									
Light source color (※)	Day light(D),Natural white(N),White(W),Warm white 3500K(WW),Warm white 3000K(L30),Warm white 2700K(L27),Warm white 2500K(L25),Warm white 2200K(L22),Warm white L2000K(L20),Warm white 1800K(L18)									
Dimmable	○									

Installing the product

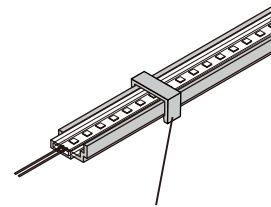
Do not cut the LED fixture and lead wire at a job site.
To prevent water and moisture entry, ensure proper sealing at the connection of cables and the terminal of the connector.

Installation with mounting rail

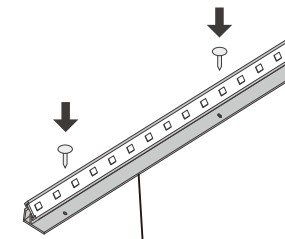
1. Fix the mounting rail by screws (pan head scw M3 recommended) supplied by installer. Insert the lighting fixture into the mounting rail.
2. Push the mounting clip until click sound. Recommended 5 pcs/m.



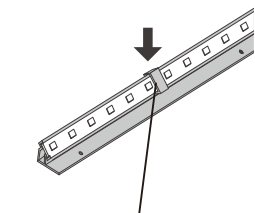
Mounting rail 1000 for SHIN FLEX (LFY-RL1000)



Mounting clip for SHIN FLEX rail (LFY-RC)

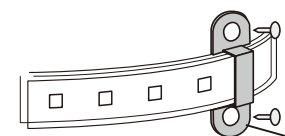


45° Mounting rail 1000 for SHIN FLEX (LFY-45RL1000)



Mounting clip for SHIN FLEX rail (LFY-RC)

Installation with mounting clip

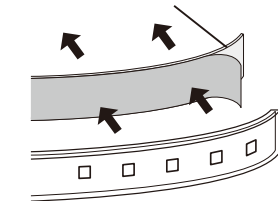


- 1: Fix the mounting clip by screws (pan head scw M3 recommended) supplied by installer. Recommended to use min. 5pcs/m.

Mounting clip (LFY-RC)

Installation with double sided tape

Double-sided tape supplied by installer



1. Ensure that the surfaces are clean and dry before applying the tape. Dust, dirt, or moisture may affect the adhesion and cause the LED fixture to fall off.
2. Properly align the LED fixture before sticking it with the tape. Repositioning the LED fixture after applying the tape may damage it or the surface.
3. Select the appropriate double-sided tape for installation by checking the manufacturer's instructions. Temperature range and surface compatibility may affect the adhesion.

Connecting to the power supply

Caution: Installation environment of power supply

Follow the instructions in the manual for the power supply regarding the temperature, humidity, and other operating environment conditions.

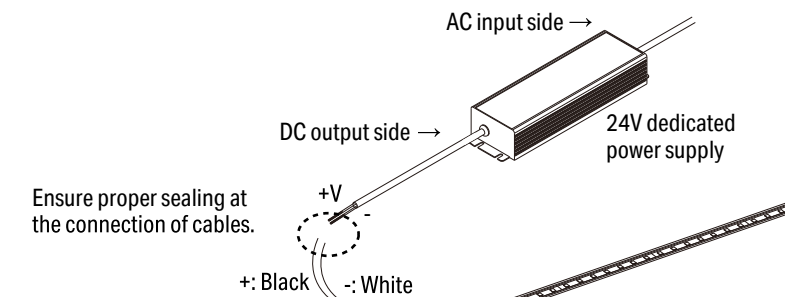
- Cables used for connecting LED fixtures and Power supply must be a suitable type and gauge.

- Cables should be joined with suitable terminal block or methods as appropriate to the installation and operating environment.

Caution: When using thin dimension cable in long extended length, the resistance of cable will increase. Voltage drop and heat dissipating may occur and result in brightness decreasing.

Caution: When separating one cable to multiple circuits in the same gauge, the current loading focuses on the junction of the branch circuit and high temperature will accumulate from there. Please consider the loading of the power supply (quantity of LED fixture) and review the wiring system to avoid the above problem.

- When connecting the dimmer driver with power supply, unpredicted noise might occur. It is a characteristic of electronic devices, not a malfunction of the LED fixture. Please choose an appropriate power supply and consider a place to install. Reducing the loading factor of LED fixture might improve the noise from the power supply while the noise for the LED fixtures might be improved by splitting the circuit of LED fixtures into multiple.



Outdoor cable 3M TR connector for FLEX (CAD-3000-MEFE-O)

△ Cautions

The product is delicate electric equipment. Handle the lighting fixtures with care.

- Do not twist, pull, fold, step on, or apply pressure to the lighting fixtures during installation.
- Do not pull the lighting fixture in the longitudinal direction when installing it on the rail.
- Do not use roller or other tool to install the lighting fixture.
- When installing the lighting fixture into the rail, do not press or extend the tube.
- Do not paint on the lighting fixtures. It may cause color shifting.

