



Luci RIMiT flex THOF IP65

Instruction Manual

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⚠ Safety Cautions

The following are the safety cautions to prevent any harm or damage 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 cable for this product.

Supplying power through the lead wires on both sides may cause failure and fire.
If using only one LED fixture, insulate the unused connector with self-adhesive tape or electrical tape.



⚠ 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, which may cause fire.

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

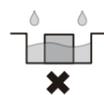
⊘ Firmly connect the connectors.
Incomplete connection may cause heating, smoke, and fire.
Do not touch the ends of the connectors. Risk of electrical shock.

⊘ 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.

⊘ 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

⊘ 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.



- Places with a consistently high humidity level (saunas, public baths, etc.).
- A location where the temperature exceeds +35°C.
(Note: The usage environment temperature is 0°C to 35°C).
- A dusty location.
- A location with corrosive or inflammable gases.
- A highly airtight location.
- A location where the product is directly exposed to saltwater or organic solvents.
- A location where the product is exposed to direct sunlight.
- 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.

⊘ 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.

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 of inner materials occurs after 8-10 years of installation even when the LED fixture looks fine from the outside.
Components of the light fixture degrade due to the generation of 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 carried out at least once every 6 months.
- At least once every 3 years, an inspection should be carried out by a specialist such as a product contractor.
- If the LED fixture 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. Cleaning Method

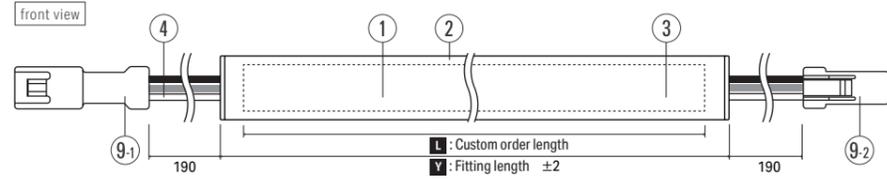
- Inspection Methods
- Is LED operating normally?
 - Is there any unusual smell, sound or heat?
 - Are there cracks, slits, or detached parts on any part or joint?

- Cleaning Method
- Lightly wipe the LED fixture with a soft cloth.
 - To best clean the LED fixture, wipe dirt with a soft cloth which has been soaked in a neutral detergent diluted with water and squeeze firmly. To finish off, wipe it with a damp cloth and dry it.

This product cannot be bent less than this angle →

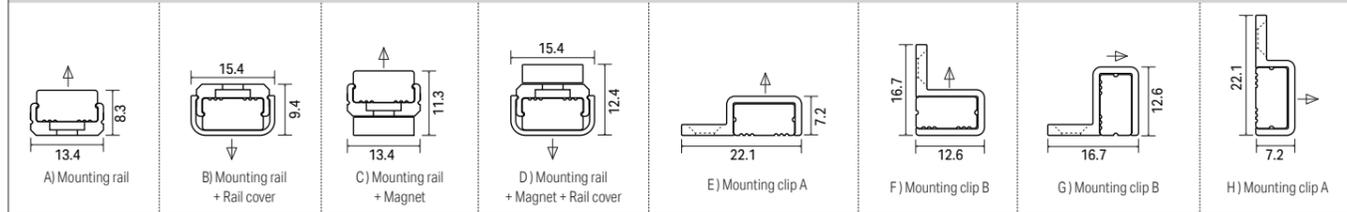
Product specification

LRFTH-T(Length)W-NL24-DF-O-12

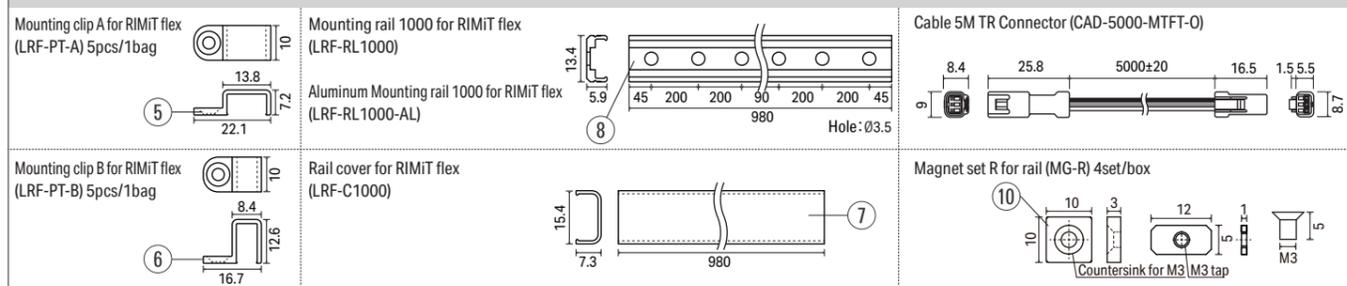


Input Voltage		
DC24V		
No.	Item name	Material etc.
1	Body	Flexible circuit board
2	Tube	Silicone, Diffuser / White
3	Cap	Silicone, Diffuser
4	Lead wire	UL1007 AWG22, Black:+24V Gray:2ch White:1ch
5	Mounting clip A	Polycarbonate, Clear
6	Mounting clip B	Polycarbonate, Clear
7	Rail cover	Polycarbonate, Clear
8	Mounting rail	Polycarbonate, Clear Aluminum, White
9	Connector	Nylon, UL94V-0, White
10	Magnet set	Neogium, Stainless steel, Steel Magnet, Washer, Plate, Screw

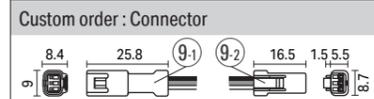
Installation dimensions (Side view)



Accessories



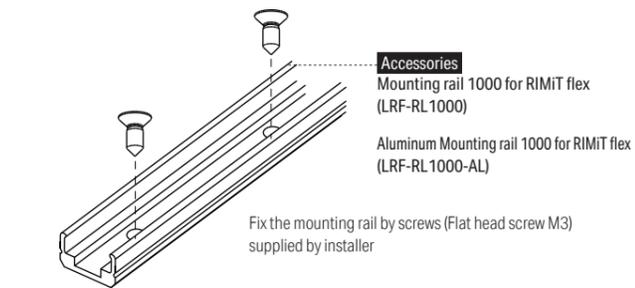
Item / Product Name	Luci RIMiT flex THOF IP65
Model No.	LRFTH-T1000*-NL24-DF-O-12 / LRFTH-T1000*-NL24-DF-O-12(C)
Wattage (Ta=25°C)	12 W
Input current (A/m)	500 mA (Max.)
Length (L 1000)	Both ends read wire 1022 mm, One end read wire 1018mm
Weight (L 1000)	67 g / Length 1000
Number of LED	140
Max. connectable Length per run	4 m
Operating temperature	0°C to 35°C
Environment	In/Outdoor (No Condensation)IP65
Material	Silicone
Attachments	-
Accessories	Mounting clip, Mounting rail, Aluminum mounting rail, Rail cover, Magnet set, Custom order : Connector, Lead wire length
Light source color	NL24 (5000K - 2400K)
Dimmable	Yes (0-10V, 1-10V, DMX, DALI, PWM, Casambi)



Max. connectable length per PSU	
Length of LED fixture (70% loading factor) *: split into multiple circuits	PSU
12 W/m	
2.9 m	50 W
6.3 m*	100 W
8.8 m*	150 W

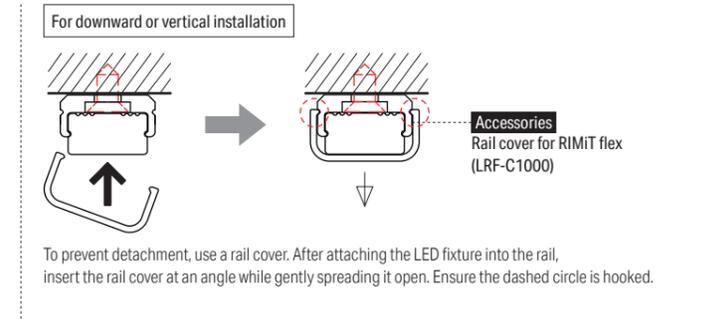
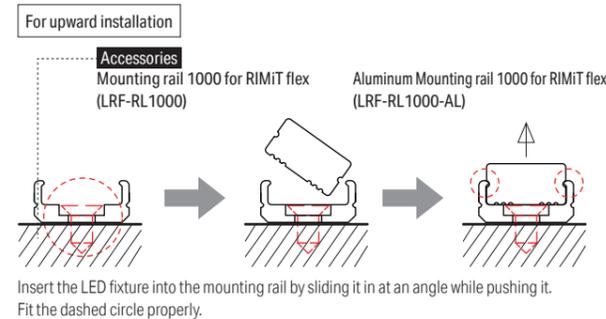
Installing the product

Mounting rail

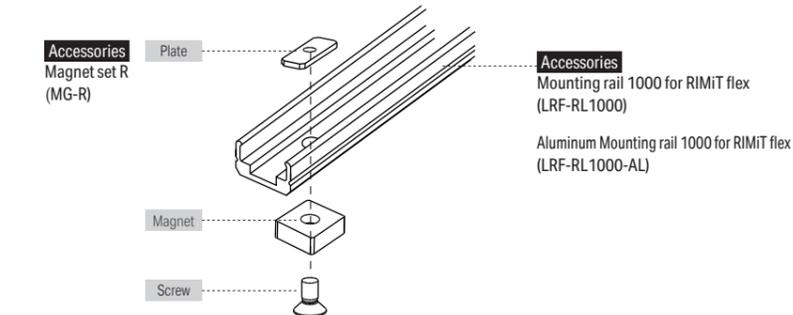


Caution

When installing the LED fixture onto the rail, avoid applying excessive pressure with fingers or tools. Excessive force may damage the circuit board and prevent the fixture to light up properly.



Installing magnet to Mounting rail



Important Instructions for Installing and Removing LED Fixtures

- Do not forcefully slide the LED fixtures along the rail. Prolonged pulling force on the fixture can cause issues such as circuit board damage and lighting failure.

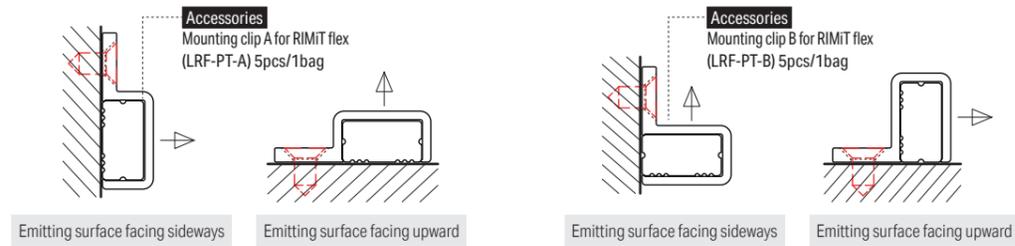
1. Insert the LED fixture into the mounting rail at an angle (*Note 1*).
2. Press the side of the LED fixture downward into the rail using your thumb.
3. Do not use a roller or other tool to install the LED fixture into the rail while pulling in the longitudinal direction.
4. Do not apply pressure to the lighting surface as the tube is made of soft material.
5. When removing the LED fixture from the rail, insert your fingers between the rail and the fixture and gently lift it away.

Note 1

Installing the product

Installing Mounting clip

For curved installations or where it is difficult to use a Mounting rail



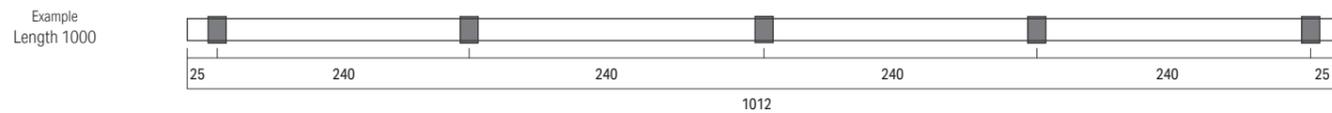
Fix the LED fixture with Mounting clips and screws (Flat head screws M3) supplied by installer

* If a part of the lighting fixture sags or deforms, use more clips.

* Do not use mounting clips A or B when installing the lighting fixture with the light-emitting surface facing downward to avoid sagging, deformation, or malfunction of the fixture.

Recommended position of Mounting clip A and Mounting clip B

Recommended mounting position (pitch: 20mm to 240mm, quantity: 2 to 5 pieces) depends on the length of the LED fixture.



Connecting to the power supply

Caution : Must choose suitable power supply

Refer to the power supply manual for temperature, humidity and other operating 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.

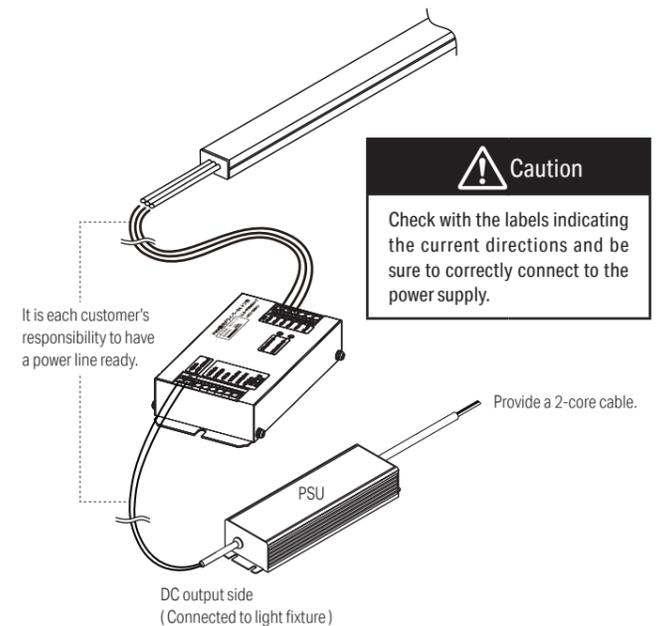
Caution: When using a long cable with thin dimension, the resistance of cable will increase. Voltage drop and heat discharging may occur and result in a drop in brightness.

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 liberate on 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 to have enough space 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.

- When you adjust the length of the power supply cable, please be careful not to damage the core wire.

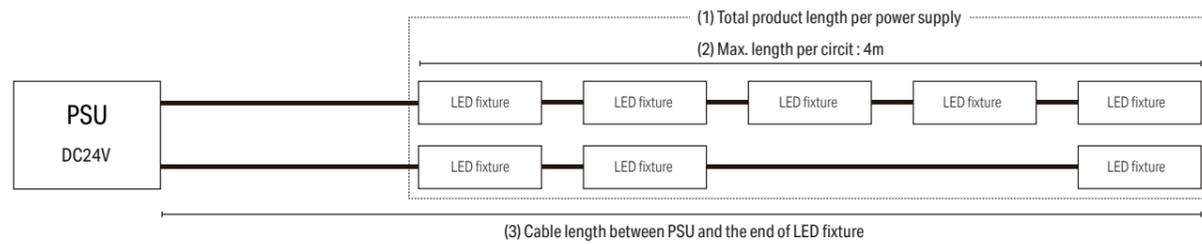
- When the cable is bundled, heat dissipation becomes poor and the temperature becomes extremely high. When bundling 5 cables or more, connect less number of LED fixture for one cable.



About the connection cable
Cable thickness and allowable current
(reference value according to manufacturer documentation)
Ambient temperature 30°C

System configuration diagram

- 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 end of LED fixtures referring to the following table.
If longer cable distances are required, use thicker wires or reduce the loading of the LED fixtures in the circuit.



(1) Total product length per power supply

Length of LED fixture (70% loading factor) *: split into multiple circuits	Power supply
2.9 m	50W power supply
6.3 m*	100W power supply
8.8 m*	150W power supply

(3) Cable length between PSU and the end of LED fixture

Product code	Wattage	Cross section	0.75 sq	1.25 sq
		Wire gauge	AWG 18	AWG 16
		(2) Max. productlength per circuit	(3) Max. cable length between PU and the end of LED fixture at (2) Max. product length per circuit	
LRFTH-T * W/S-NL24-DF-I-12	12W	4m	25m	35m