



Luci Vivoxy FLEX IP67

Instruction Manual

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⚠ To ensure safe usage

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 · electrifications · smoke.

**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.



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 Attach the connector cap




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 Overcurrent breaker / 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.




In case if abnormal situations, please cut off the power immediately, consult with electricians, and do not touch the LED fixture with hands.




Do not place a flammable object such as a cloth or an insulating material on top of the fixture or cover it with such material. It may cause the fixture not to turn on or fire.




Do not put a piece of metal or flammable object in clearance of fixture.
Do not place or install LED fixture in close contact with other electrical equipment in or out of ceiling area to prevent fall, electric shock or fire cause by vibration from electrical equipment.
Do not operate the fixture with wet hands. It may result in an electric shock.
Important notice for storage




Observe the storing temperature of our LED fixtures: -35°C to 65°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 with direct sunlight
- places with solvent such as a paint liquid is sorted



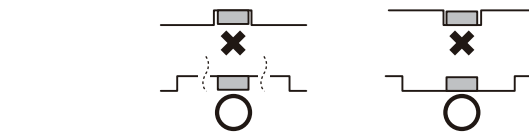
During storing period, please do not leave the cartons or individual packages vertically.
Please do not open individual package before installing LED fixtures to avoid any damages to the LED fixtures.
Please do not place heavy object on the carton.
Please do not use LED fixtures as the working light during construction period.




Always test before connecting the LED fixture to a switch or dimmer.




The product must be allowed to dissipate heat.
Risk of shortened service life and fire.
Allow sufficient space for ventilation (heat dissipation) between the LED fixture and building structure.
When installing the LED fixture in a box, please make sure to provide the air ventilation hole.







Do not use the product if it damaged.
Risk of an accident and electrical shock.
Avoid spraying detergent directly on the LED fixture.
If this happens, immediately rinse with water.



If the product is dirty, wipe with a dry cloth.
Do not use thinner, benzene, or other organic solvents to clean the product, and do not wash with water.




Do not use a brush or an abrasive to polish metal parts.
Risk of damage and corrosion.




Do not use in the following environments:
- A location at high temperature (+45°C or higher)
(usage environment temperature is -5°C to +45°C)
- A location where water collects, and under the water.





- A location with corrosive or inflammable gases.
- 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 subject to continuous vibration.



Do not do the following to the LED fixture:
- Forcibly remove the product after mounting it.
- 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.

Please read before the usage

- 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 installing the fixtures, use dedicated mounting accessories and make sure to be fixed securely.

Caution regarding installation environment of power supply

Regarding the temperature, humidity, and other conditions of the operating environment, follow the instructions in the manual for the power supply.

Maintenance and Inspection

- LED fixture has a life span.
- Degradation occurs inside after a few years of installation even when the 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 2 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 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?

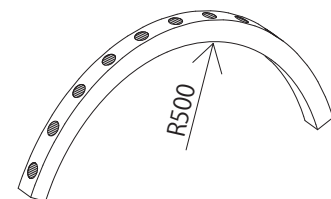
Cleaning Method

- Lightly wipe the 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 squeezed dry. To finish off, wipe it with a damp cloth and dry it.

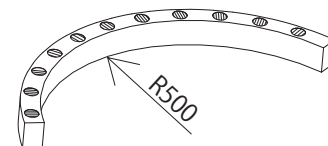
Bending tolerance of LED fixture and parts

- LED fixture and parts have bending tolerances.
- Do not bend and install the LED fixture less than the following minimum bending radius as it will cause damage and malfunctions.

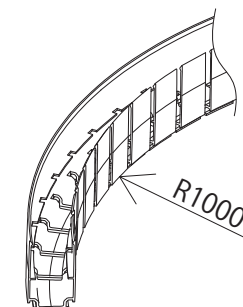
Top bend: min. R 500mm



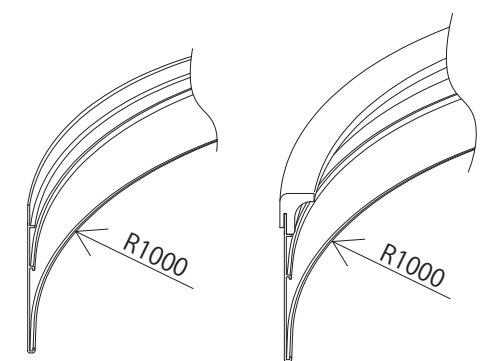
Side bend: min. R 500mm



Bendable rail: min. R 1000mm



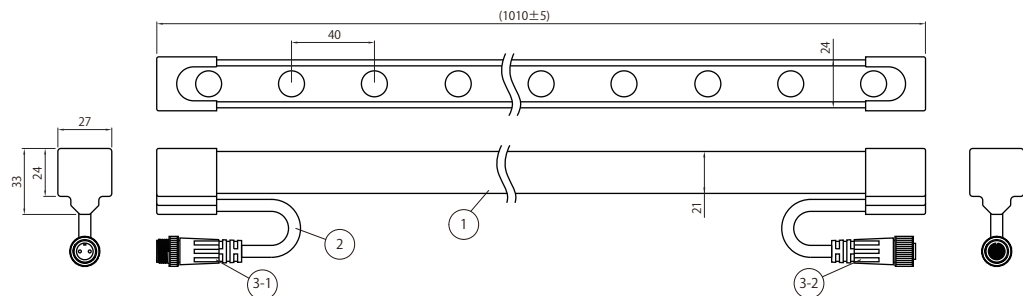
Glare cut shield, Glare cut shield with silicone: min. R 1000mm



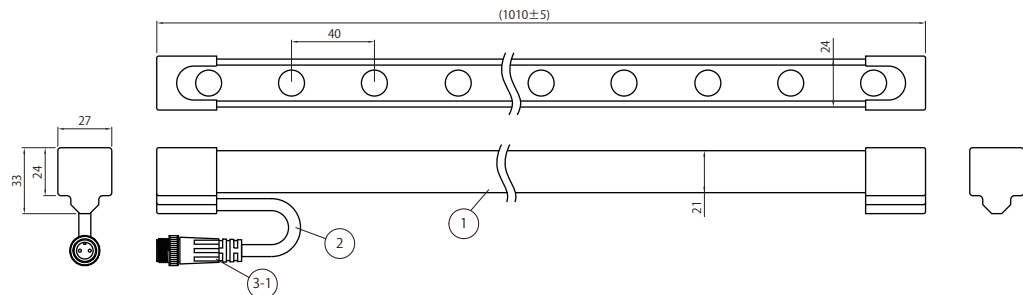
Product specification

※ unit of measure=mm

【LVF40-1000W-※-SP2-O-24-W】



【LVF40-1000S-※-SP2-O-24-W】



Input Voltage
DC24V

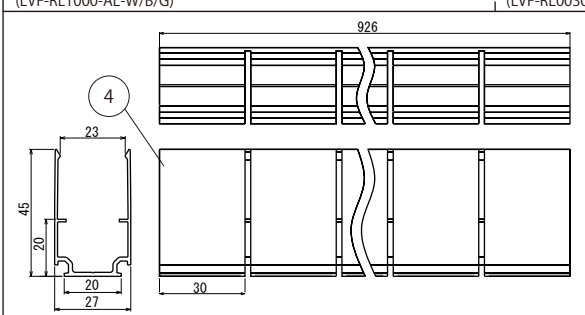
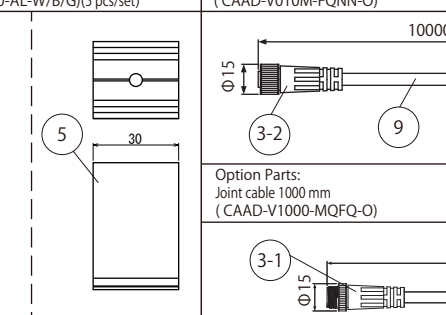
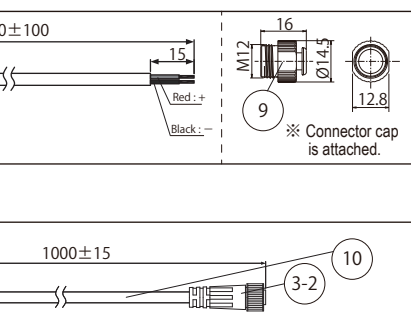
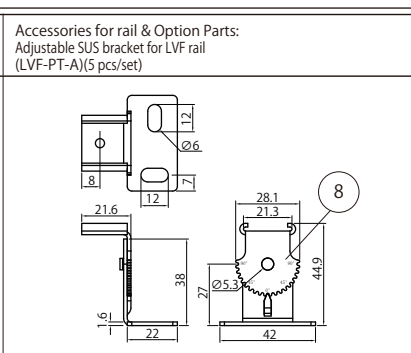
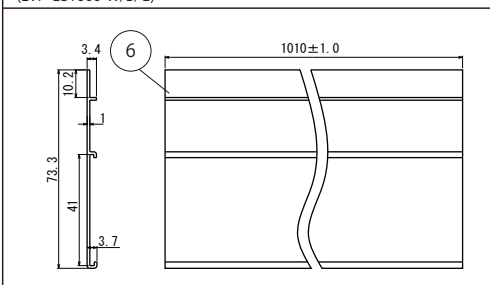
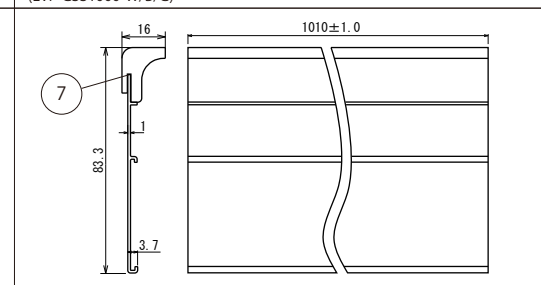
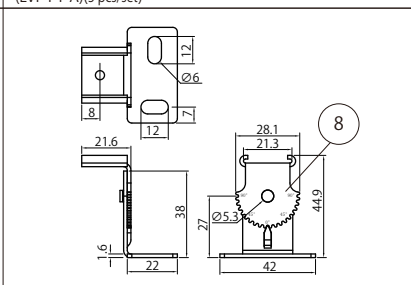
No	Item	Name Material etc.
①	Body	
②	Lead wire	
③-1	Connector	
③-2	Connector	
④	Bendable rail	Aluminum
⑤	Mounting Parts	Aluminum
⑥	Glare cut shield	Aluminum
⑦	Silicone for glare cut shield	Silicone
⑧	Adjustable SUS bracket	Stainless steel
⑨	Power supply cable (Connector cap)	Red+, Black-
⑩	Joint cable	

Product specification

※ unit of measure=mm

Item / Product Name	Luci Vivoxy FLEX IP67			
Model No.	LVF40-0125(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-0250(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-0375(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-0500(※1)-(※2)-(※3)-O-24/16-(※4)
	LVF40-0625(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-0750(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-0875(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-1000(※1)-(※2)-(※3)-O-24/16-(※4)
	LVF40-1125(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-1250(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-1375(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-1500(※1)-(※2)-(※3)-O-24/16-(※4)
	LVF40-1625(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-1750(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-1875(※1)-(※2)-(※3)-O-24/16-(※4)	LVF40-2000(※1)-(※2)-(※3)-O-24/16-(※4)
Power consumption	24 W or 16W(Ta=25℃)			
Input current	(1.025 A or 0.668 A max)			
Environment	In & Outdoor, IP67			
Operating temperature	-5℃～+45℃			
Max. Length	5m			
Material (Body)	Silicon			
Option parts	Bendable rail for Vivoxy FLEX 1m White/Black/Gray, Mounting Parts for Vivoxy Flex White/Black/Gray Glare cut shield for LVF rail 1m White/Black/Gray, Glare cut shield with silicone 1m White/Black/Gray, Adjustable SUS bracket for LVF rail Power supply cable 10000 mm for LVF(Connector cap is attached), Joint cable 1000 mm for LVF			
Dimmable	○			
Lead wire & Cable type(※1)	Both ends lead cable - Back feed(W), One end lead cable-back feed(S)			
Light source color(※2)	Daylight white 6500K(D), Natural white 5000K(N), White(W), Warm white 3500K(WW), Warm white 3000K(L30), Warm white 2700K(L27), Warm white 2200K(L22)			
Lens angle(※3)	22×35°(SP2), 35°(35), 50°(50)			
Body color(※4)	White(W), Black(B), Gray(G)			

Option parts

<p>Option Parts: Bendable rail for Vivoxy FLEX 1m White/Black/Gray (LVF-RL1000-AL-W/B/G)</p> 	<p>Option Parts: Mounting Parts for Vivoxy Flex White/Black/Gray (LVF-RL0030-AL-W/B/G)(5 pcs/set)</p> 	<p>Option Parts: Power supply cable 10000 mm (CAAD-V010M-FQNN-O)</p>  <p>Option Parts: Joint cable 1000 mm (CAAD-V1000-MQFQ-O)</p> 
<p>Accessories for rail & Option Parts: Glare cut shield for LVF rail 1m White/Black/Gray (LVF-GS1000-W/B/G)</p> 	<p>Accessories for rail & Option Parts: Glare cut shield with silicone 1m White/Black/Gray (LVF-GSS1000-W/B/G)</p> 	<p>Accessories for rail & Option Parts: Adjustable SUS bracket for LVF rail (LVF-PT-A)(5 pcs/set)</p> 

Spec・Rating may be subject to change without announcements.

Unit Of Measure : mm

Connecting to the power supply

■ 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 appropriate to the installation and operating environment.

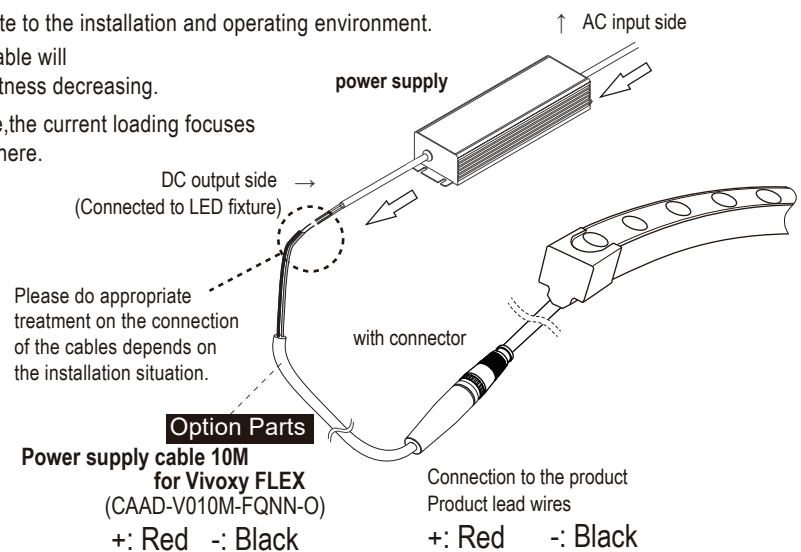
Caution: When using a long cable with thin dimension, the resistance of cable will increase. Voltage drop and heat dispatching may occur and result in brightness decreasing.

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 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 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.

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

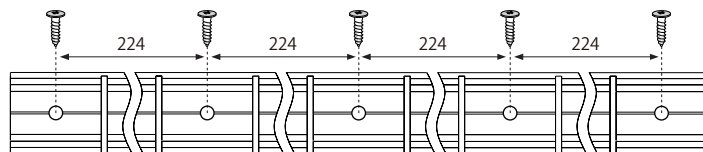


Installing the product

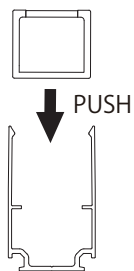
Installation with bendable rail

- ① Fix the bendable rail by screws supplied by installer (pan head screw M4 recommended).

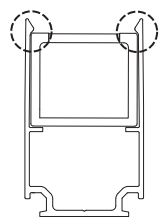
<Example: When LED fixture L = 1000 and bendable rail L = 926>



- ② Hold the upper side of LED fixture and push it down to put it in the rail.



※Make sure that the dashed circles fit tightly.



- Rail length for each LED fixture length, number of screws, screw hole pitch, The recommended number of installations is as follows.

LED fixture length (mm)	Rail length(mm)	Number of screws	Screw hole pitch (mm)
125	30	1	※ Mounting Parts
250	158	2	128
375	286	2	192
500	414	3	192
625	542	3	224
750	670	4	224
875	798	5	192
1000	926	5	224

※For lengths longer than the above, combine each length.

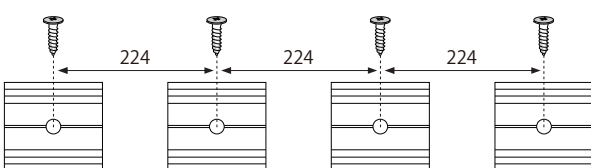
⚠ Cautions

When inserting the LED fixture into the rail, do not press with force using fingers or a tool, it may cause damage to the LEDs, electric components, boards, and other parts. There will be a high risk of unlighted LED, wire breakage and other failure occurring due to above improper mishandling.

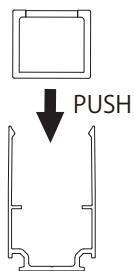
Installation with mounting parts

- ① Fix the mounting parts by screws supplied by installer (pan head screw M4 recommended).

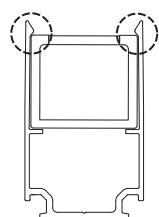
<Example: When LED fixture L = 750>



- ② Hold the upper side of LED fixture and push it down to put it in the rail.



※Make sure that the dashed circles fit tightly.



- Number of mounting parts for each LED fixture length, number of screws, screw hole pitch, The recommended number of installations is as follows.

LED fixture length (mm)	Number of mounting parts	Number of screws	Screw hole pitch (mm)
125	1	1	-
250	2	2	128
375	2	2	192
500	3	3	192
625	3	3	224
750	4	4	224
875	5	5	192
1000	5	5	224

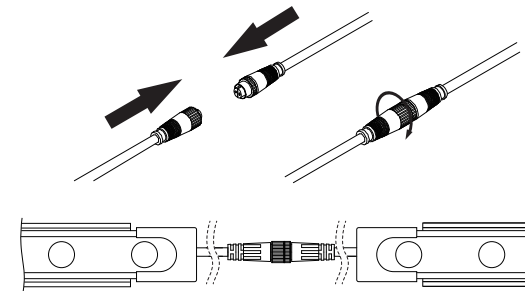
※For lengths longer than the above, combine each length.

⚠ Cautions

When inserting the LED fixture into the mounting parts, do not press with force using fingers or a tool, it may cause damages to the LEDs, electric components, boards, and other parts. There will be a high risk of unlighted LED, wire breakage and other failures due to above improper mishandling.

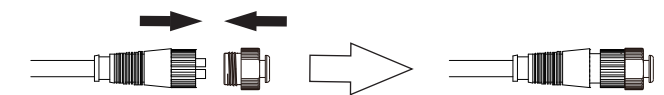
Installation with bendable rail, mounting parts Common Items

- ③ Ensure the pin holes in the connectors are positioned correctly before joining them. To fasten, rotate the metallic knobs until tightend.



⚠ Cautions

The unenclosed connector at the terminal of Vivoxy FLEX IP67 must be sealed with connector cap which is enveloped in the power supply cable(CAAD-V010M-FQNN-O). To fasten, rotate the metallic knobs until tightend.



Aluminum rail cut

The Aluminium Bendable Rail for Vivoxy FLEX(LVF-RL1000-AL-W/B/G)can be cut according to the length of lighting fixture. Aluminum rail mounting holes can also be made at the site by the installer. Please cut properly with a cutting tool for aluminum.

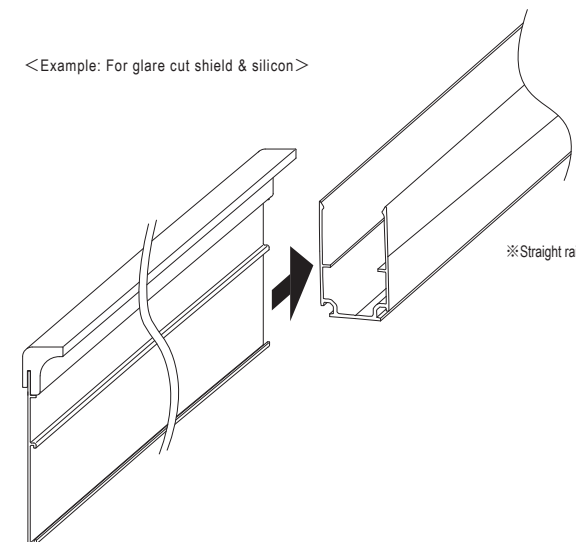
Installation of glare cut shield, glare cut shield & silicon on bendable rails

- ① Attach the glare cut shield with silicone to the bendable rail by sliding it as shown by arrow.

To make rail and shield curve

- ① Both rail and shield has to be straight when inserting shield into rail
- ② Bend rail and shield together to desired curve.

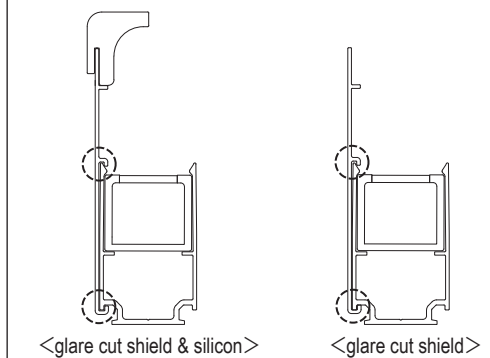
<Example: For glare cut shield & silicon>



⚠ Cautions

Do not bend rail and shield separately as it make installation difficult and may cause shield to fall off rail.

※Make sure that the dashed circles fit tightly.



- Glare cut shield, Glare cut shield & silicon length for each LED fixture length, The recommended length of installations is as follows.

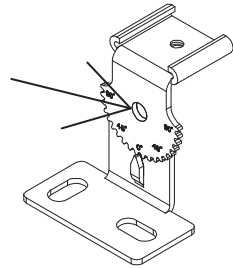
LED fixture length (mm)	Glare cut shield, Glare cut shield & silicon length (mm)
125	135
250	260
375	385
500	510
625	635
750	760
875	885
1000	1010

※For lengths longer than the above, combine each length.

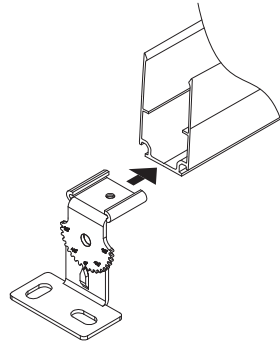
Installing the product

Installation adjustable brackets on bendable rails

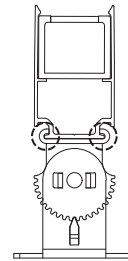
① Determine the angle of the adjustable bracket and tighten the screw at the arrow.



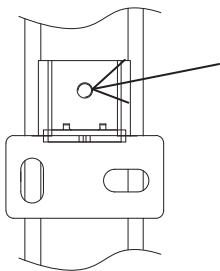
② Slide the adjustable bracket on the bendable rail as shown by the arrow to attach it.



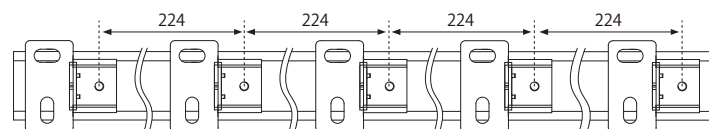
※Make sure that the dashed circles fit tightly.



③ Tighten the screw indicated by the arrow from the underside of adjustable bracket to fix adjustable bracket to bendable rail.



<Adjustable bracket, bendable rail seen from below>



<Example: When LED fixture L = 1000 and rail L = 926>

• Rail length for each LED fixture length, number of adjustable brackets, mounting pitch, The recommended number of installations is as follows.

LED fixture length (mm)	Rail length(mm)	Number of adjustable brackets	Mounting pitch (mm)
125	30	1	—
250	158	2	128
375	286	2	192
500	414	3	192
625	542	3	224
750	670	4	224
875	798	5	192
1000	926	5	224

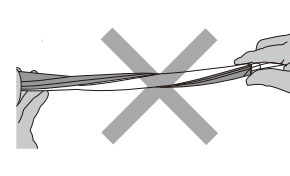
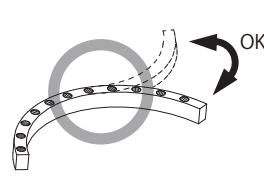
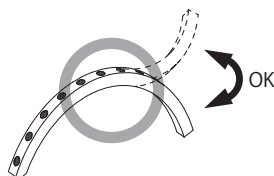
※For lengths longer than the above, combine each length.

⚠ Cautions

Do not bend bendable rail before inserting adjustable bracket. Otherwise, it is difficult to insert and may cause adjustable bracket to fall off. Make sure to firmly fasten screw for angle and joint screw to avoid falling off and misalignment.

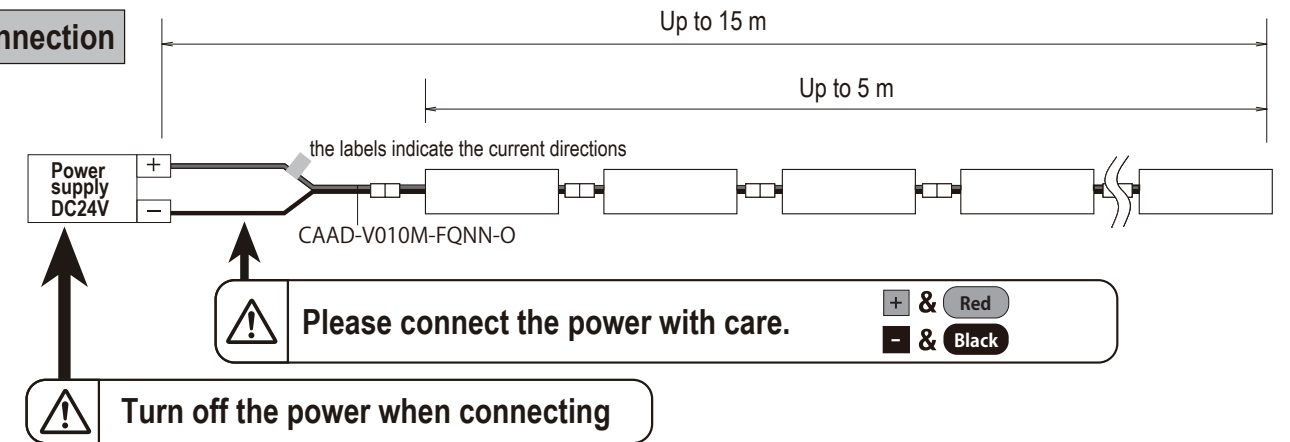
⚠ Cautions

LED fixture is bent vertically and horizontally to light emitting surface. If it is bend wrongly or twist, it will be damaged and the LED fixture will not turn on.

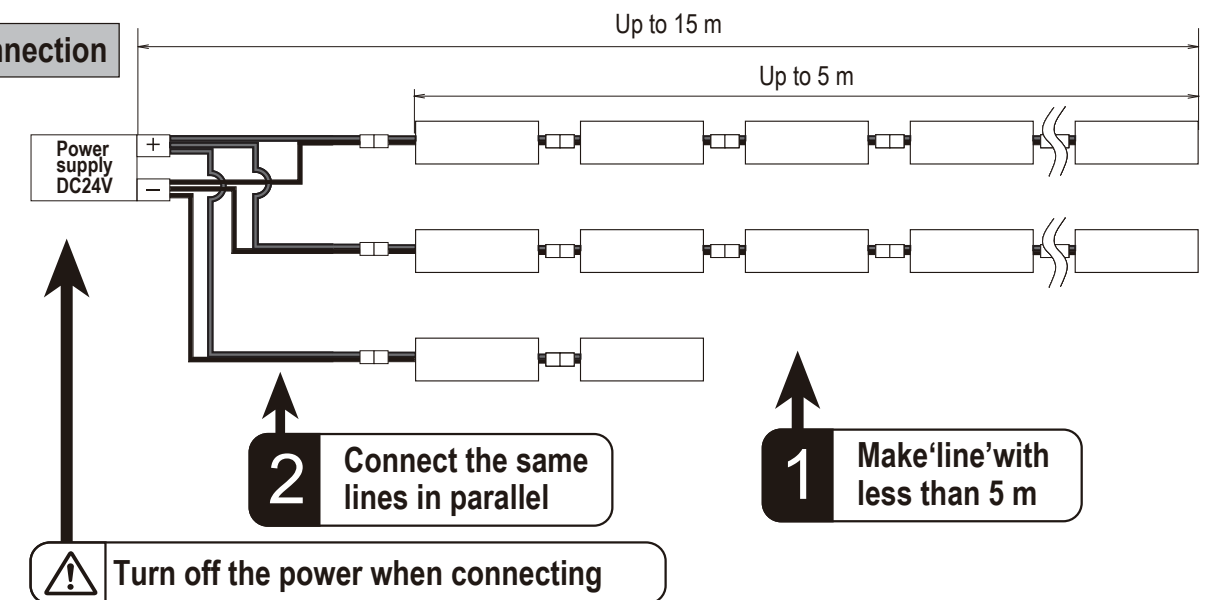


Connecting LED fixtures

Series connection



Parallel connection



⚠ Cautions

The number of LED fixtures that can be connected to the power supply depends on the output (W) of the power supply.

For Luci Vivoxy FLEX IP67, the maximum number connectable in series is 5 m. It can be connected in series or in parallel. However, please observe the maximum number of connected units up to 5m. It is recommended to connect the LED fixture at a load ratio of 70% (without dimming) or 60%(with dimming) of the power output since the load varies depending on the derating and the usage environment of the power supply. Please confirm the table on the right for details.

LED fixture Length	Power output			
	24W / m		16W / m	
	Without dimming	With dimming	Without dimming	With dimming
1m	34.3W~	40.0W~	22.9W~	26.7W~
2m	68.6W~	80.0W~	45.7W~	53.3W~
3m	102.9W~	120.0W~	68.6W~	80.0W~
4m	137.1W~	160.0W~	91.4W~	106.7W~
5m	171.4W~	200.0W~	114.8W~	133.3W~

The power supply arrange by customers is not covered with the product warranty by Luci and proper operation cannot be guaranteed. It is recommended to check the power supply specification and manual when choosing a power supply. Especially pay attention to wire capacity load if using 150W or higher wattage power supply.