



# INSTALLATION INSTRUCTIONS

## LED STRIP

**In order to ensure proper and safe operation, it is essential to follow these instructions !**

They contain important instructions for commissioning and handling and are an integral part of the product. If you pass this product to third parties, ensure that you also pass on these instructions.

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### 1. GENERAL INFORMATION REGARDING PROPER USE OF THE PRODUCT

The ATEA LED strip is a flexible LED module, which serves as a component to manufacture luminaires for general lighting. The LED strip is to be provided with a suitable housing during operation that meets the normative and legal requirements for the application purpose and location and that protects the sensitive electronic components of the flexible PCB from external influences and ESD. When used outdoors in particular, it should be ensured that corresponding precautions are taken to protect it against water, moisture and salt. In addition, a sophisticated cooling of the LED strip is to be ensured. During operation, the permissible maximum Tc temperature may not be exceeded.

**Read the safety instructions carefully. The installation of the LED strip may only be carried out by a qualified electrician!**

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## 2. SAFETY INSTRUCTIONS

All information in these instructions, and especially the safety instructions, must be followed at all times.



The use of this symbol in these instructions indicates a risk of electric shock.



This symbol indicates general hazards or important information that must be observed.



The arrow symbol is used to indicate specific information or tips.



### **WARNING OF ELECTRIC VOLTAGE!**

**IMPROPER AND UNPROFESSIONAL WORKING WHEN CONNECTING THE LED STRIP PRESENTS A DANGER TO LIFE. THE ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.**



### **RISK OF INJURY, RISK OF BLINDING!**

**THE LED STRIP SHINES VERY BRIGHTLY. LOOKING DIRECTLY AT THE LIGHT SOURCE MAY RESULT IN EYE INJURIES.**



### **EXPLOSION HAZARD**

**THE DEVICE MAY NOT BE OPERATED IN ENVIRONMENTS IN WHICH EXPLOSIVE OR COMBUSTIBLE GASES, FUMES OR DUST ARE PRESENT — DOING SO CARRIES A RISK OF EXPLOSION AND FIRE.**



**In commercial establishments, observe the accident prevention regulations issued by the federation of industrial trade associations for electrical systems and equipment.**

- » The LED strip may only be operated with a suitable controller/power supply.
- » Note the voltage and power specifications on the cardboard box and choose a power source with a power reserve of at least +15%.

## **DISCLAIMER**

Damage to the product resulting from failure to comply with the installation instructions for use will void the warranty and all related claims. We also accept no liability for damages resulting from improper use. The same applies for property damage and personal injury caused by improper handling or non-observance of the safety instructions.

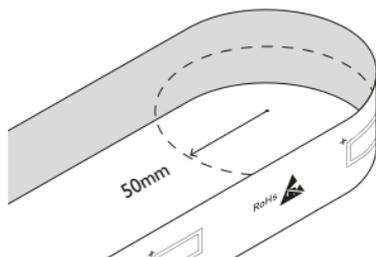
### 3. INSTALLATION AND HANDLING INSTRUCTIONS



During installation, observe the safety regulations for the prevention of electrostatic discharge (ESD). This is one of the most common causes of failure in electronic components containing semiconductors. ATEA produces, stores and packages all LED strips in an ESD-protected environment and uses anti-static packaging.

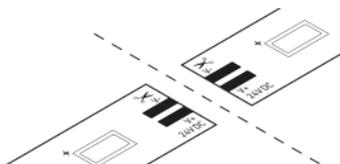
#### GENERAL INSTRUCTIONS FOR USE

- » The minimum bending radius of the LED strip is 50 mm.
- » Ensure that no mechanical loads are applied to the electronic components on the LED strip.
- » Ensure that the LED strip is adequately protected in areas containing dust or water.



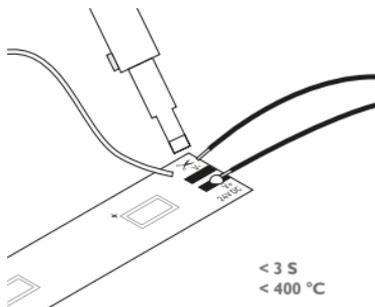
#### CUTTING LED STRIPS TO THE DESIRED LENGTH

- » You can use wire cutter (or similar) to cut the LED strip to the desired length at the marked points between the solder pads.



#### CONNECTION AND JOINING BY SOLDERING

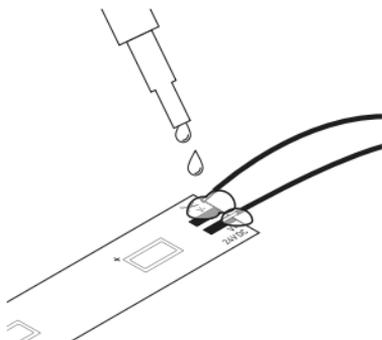
- » After cutting the strip, use a sharp object to remove the potting compound (if it's IP strip LED) so that the solder points are expo-sed. Ensure that you do not damage the LED strip on the inside!
- » Link the supply line or connection cable by solde-ring it to the provided solder pads.
- » Note the polarity (+/- label) on the solder pads. If the polarity is incorrect, no light will be emitted and/or the LED strip may be damaged.
- » When soldering, a max. soldering time of 3 seconds and a max. soldering temperature of 400°C must be observed.
- » When connecting multiple LED modules, observe the maximum operable length of a combined module (see section 5 "Specifications"). Correspondingly longer LED modules can be created by connecting an (intermediate) feed at the beginning and end of the LED module.



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## RESTORING THE IP PROTECTION TYPE

- » When cutting or soldering a protection class IP (except >IP65) LED strip, these cut/soldered locations must then be resealed to restore full protection.
- » For this purpose, we only recommend the use of **transparent silicone** or **Loctite 3090**.

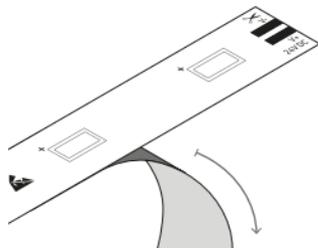
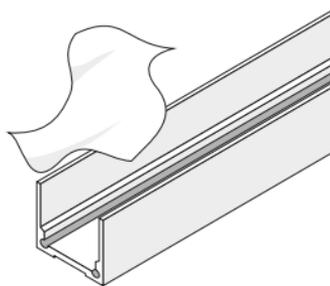


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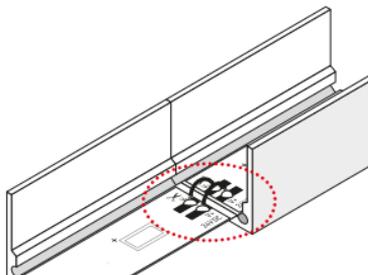
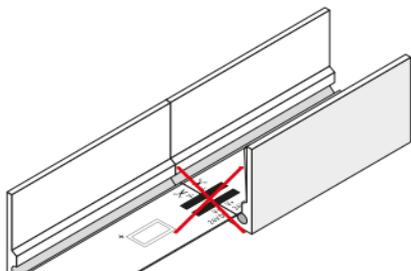
## INSTALLATION ON A THERMALLY CONDUCTIVE SURFACE

**IMPORTANT:** Before installation, test the LED strip for proper functioning in the unrolled state. Subsequent complaints about material defects cannot be accepted.

- Ensure that the installation surface is clean and free from grease, oil, silicone and dirt particles. To clean surface we recommend **VHB degreaser 3M**. (Please note that the installation surface must be completely dry before applying the led strip).
- Install the LED strip on a thermally conductive substrate using the double-sided adhesive tape on the rear. For this purpose, completely remove the protective foil.
- Ensure that solder joints are properly insulated from the profile.
- Ensure that the maximum permissible **ambient temperature of -25° to +45°C** is not exceeded during operation and that sufficient cooling is provided.
- We strongly advise against performing the installation on uneven or poorly heat-conductive surfaces, such as plasterboard, wallpaper, wood or stone, as this may significantly shorten the product's service life and adversely affect the adhesion of the adhesive tape.



**We do not recommend mounting the LED strip on a profile joint ! Physical expansion or contraction of the profile in the event of temperature fluctuations can damage the LED strip. We recommend cutting off the soldering points at the profile joint and using flexible connections, such as soldered flexible wire bridges.**



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#### CONNECTION TO THE POWER SUPPLY



A constant voltage power supply is required for operation — this must be dimensioned according to the power and voltage of the LED strip. For this purpose, note the latest data sheet version at [www.atea.fr](http://www.atea.fr)



A controller is required for advanced features (e.g. dimming or colour control). We can provide you with the appropriate control unit according to your needs.

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- » Connect the power cable attached to the LED strip to the secondary side of the power supply. Observe the polarity (+/-) on the LED strips and power supply!
  - » Ensure sufficient dimensioning of the power supply.
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#### 4. MAINTENANCE + CARE

- » The LED strip is maintenance-free.
  - » Should it be necessary to clean the LED strip due to contact with dust or light dirt, perform dry cleaning using clean compressed air (observe the appropriate dosage! do not spray directly onto components!) or a clean, soft and lint-free cotton cloth.
  - » Cleaning with liquids or cleaning agents is strongly discouraged as this could damage the LED strip!
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#### 5. TECHNICAL DATA

The specifications for the ATEA LED strips can be found via the corresponding data sheet. You will find the latest version at [www.atea.fr](http://www.atea.fr).

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## 6. DISPOSAL



Please play your part in helping to avoid waste. Should you no longer need this product, please keep in mind that many of its components are made from valuable raw materials and can be recycled. Therefore, do not dispose of it in the dustbin; instead take it to your nearest collection point for electrical appliances. **Thank you for your help!**

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**This product complies with the requirements of the applicable European and national regulations. Its conformity has been verified, the corresponding declarations and documents have been recorded by the manufacturer.**

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\* Subject to modifications

# ATEA

VERSION 01|2023

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