

BARTHELME LEDLIGHT FLEX LED STRIPS – INSTRUCTIONS FOR INSTALLATION AND USE.

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

These instructions are only valid for the products named above. 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.

1. GENERAL INFORMATION REGARDING PROPER USE OF THE PRODUCT

The Barthelme LEDlight flex LED strip is designed to provide lighting and can be used in a variety of different ways. Ensure sufficient cooling for the LED strip during operation. We recommend one of our approved Barthelme LED profiles. Read the safety instructions carefully. Electrical installation of the LED strip must be carried out by a qualified electrician!

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!

RISK OF INJURY, RISK OF BLINDING!

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.



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



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. For the permissible voltage, see valid datasheet at www.barthelme.de

DISCLAIMER

Damage to the product resulting from failure to comply with these instructions will void the warranty and all related claims. We also accept no liability for consequential 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.

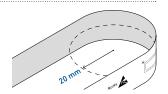
3. INSTALLATION AND HANDLING INSTRUCTIONS



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. Barthelme produces, stores and packs all Barthelme LEDlight flex LED strips in an ESD-protected environment and uses anti-static packaging. We recommend using our ESD grounding set with wrist strap when working with the product (tien No. 50991800).

GENERAL INSTRUCTIONS FOR USE

- » The LED strip may only be sharply bent once in places where no electronic components are mounted. The minimum bending radius is 2 cm.
- » 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.



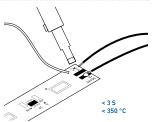
CUTTING LED STRIPS TO THE DESIRED LENGTH

» You can use scissors (or similar) to cut the Barthleme LEDlight flex LED strip to the desired length at the marked points between the solder pads.



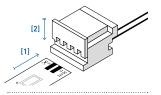
ADDING CONNECTIONS VIA SOLDERING

- » 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 350°C must be observed.
- » When connecting multiple LED modules, observe the maximum operable length of a combined module (see valid datasheet at www.barthelme.de). Correspondingly longer LED modules are possible by intermediate infeed or by infeed at beginning and end of the LED module.



ADDING CONNECTIONS WITHOUT SOLDERING

- » An LED strip connector can be used with Barthelme LED-light flex LED strips marked "8p". (Item numbers: 50070201, -02 -03 -04)
- » Remove the protective foil from the adhesive tape. Push the LED strip into the connector until it snaps into place.
- » When connecting multiple LED modules, observe the maximum operable length of a combined module (see valid datasheet at www.barthelme.de). Correspondingly longer LED modules can be created by connecting an (intermediate) feed at the beginning and end of the LED module.
- » Note that the maximum current carrying capacity across all pins of a connector must not exceed 10 A!



MAX. CURRENT CARRYING CAPACITY PER PIN

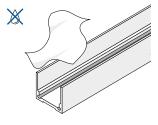
2-pin 5 A 4-pin (pin 1/pin 2-4) 5 A / 1.67 A

RESTORING THE IP PROTECTION TYPE

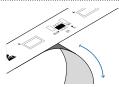
- » When cutting or soldering an IP 66-MFC LED strip, these cut/soldered locations must then be resealed to restore full protection.
- » For this purpose, we recommend only using products approved by us. An up-to-date list of these products can be found at www.barthelme.de
- » The use of connectors is not recommended for protection class IP 66-MFC.

INSTALLATION ON A THERMALLY CONDUCTIVE SUBSTRATE IMPORTANT: Before installation, test the LED strip for proper functioning in the unrolled state. Subsequent complaints for material defects cannot be accepted.

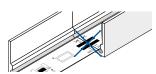
- » Install the LED strip on a thermally conductive substrate using the double-sided adhesive tape on the rear.
- » Ensure that the installation surface is clean and free from grease, oil, silicone and dirt particles.
- » We strongly advise against performing the installation on uneven or poorly heat-conductive 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.
- » Ensure that solder joints are properly insulated from the profile.

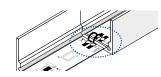


- » To proceed, peel off the protective foil and press lightly on the LED strip. Take care not to damage the electronic components! Do not use screwdrivers or similar tools when installing the LED strips!
- » Ensure that the permissible temperature at the Tc point (see valid datasheet at www.barthelme.de) is not exceeded during operation. We recommend using one of our approved Barthelme LED profiles.



Never stick the LED strip over a profile joint! The physical expansion or contraction of the profile in the event of temperature fluctuations may damage the LED strip. One solution here is to correctly distribute the solder pads at the joint and use flexible connections, e.g. soldered flexible wire bridges or LED strip connectors.





CONNECTION TO THE POWER SUPPLY

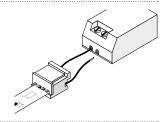


A constant voltage power supply is required for operation — this must be dimensioned according to the power and voltage of the LED strip (see valid datasheet at www.barthelme.de).



A controller is required for advanced features (e.g. dimming or color control). We recommend our CHROMO-FLEX control unit series. More information is available at www.barthelme.de

- » 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; we recommend factoring in a 20% power reserve.
- » For the power consumption and rated voltage, see valid



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.
- $\ \ \, \text{``Cleaning with liquids or cleaning agents is strongly discouraged as this could damage the LED strip!}$

5. SPECIFICATIONS

The specifications for the Barthelme LEDlight flex LED strips can be found via the corresponding data sheets. The latest version is available at **www.barthelme.de**

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!



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

* Subject to modifications



VERSION 412018

© JOSEF BARTHELME GMBH & CO. KG Oedenberger Straße 149 | 90491 Nuremberg | Germany T +49 911 42476 0 F +49 911 42476 66 E info@barthelme.de

