

Barthelme FLEXLUC TopView 11 LED Strip Light



Barthelme FLEXLUC TopView 11 LED Strip Light User Manual

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Barthelme

Barthelme FLEXLUC TopView 11 LED Strip Light



Specifications

- **Product Name:** FLEXLUC TopView 11
- **Input Voltage:** 24 V DC
- **Power Consumption:** 16 W/m
- **Color Temperature:** 2900 K (typical)
- **Luminous Flux:** 74 lm/W (typical)
- **CRI:** 90 (typical)
- **IP Rating:** IP67

Product Usage Instructions

Mounting and Commissioning

Mounting and Processing Instructions

The installation can be done using the double-sided adhesive tape (Art. No. 30033009) or the construction adhesive (Art. No. 63500030), depending on the surface and intended use.

Connection / Commissioning

Cleaning

Disposal

FAQ

- **Q:** What is the minimum bending radius for FLEXLUC TopView 11?

A: The minimum bending radius is 50 mm. Exceeding this radius or improper bending can damage the product.

• **Q: What actions void the warranty for FLEXLUC TopView 11?**

A: Non-compliance with safety instructions, improper handling, and not following the installation guidelines can void the warranty.

FLEXLUC TopView 11 –

INSTRUCTIONS FOR INSTALLATION AND OPERATION

Thank you for choosing this high-quality product from Barthelme!

GENERAL INFORMATION FOR INTENDED USE

Please read these instructions carefully prior to installation and initial operation of the LED lightline and keep in a safe place. Should you pass this LED lightline on to a third party, please also include these instructions.

This product is a high-quality flexible LED light line with protection class IP 67. Amongst other things, it is resistant against environmental influences. The high quantity of copper in the circuit paths, the current limiter and the thermal conductive coating ensure high quality and a long lifetime.

The FLEXLUC TopView 11 is only to be used for lighting purposes and may not be changed or modified in any way which is not described in these instructions. Please note the areas of application and possible uses in point 4. Non-observance of these instructions may inhibit the correct functionality or cause damage to the product. In this case we do not assume any liability.

ATTENTION

The minimum bending radius of the FLEXLUC TopView 11 is 50 mm. The minimum bending radius may not be exceeded and the lightline may not be bent, otherwise the FLEXLUC TopView 11 could be damaged!

Please observe the bending DIRECTION of the lightline (see illustration 2).

Any warranty will be void in case of non-compliance.

SAFETY ADVICE

The safety advice and all other information in these instructions must be followed.



This symbol is used in the instructions when danger from electric shock exists.



This symbol indicates general risks or important information which must be adhered to.



The arrow symbol is used when special information or tips are given.

WARNING

ELECTRICAL VOLTAGE!

IMPROPER AND UNPROFESSIONAL PROCEDURE DURING CONNECTION OF THE LED LIGHT LINE IS LIFE-THREATENING.

- The installation of the LED light line may only be performed by a certified electrician. All connections must be disconnected and secured against being inadvertently switched back on!
- Ensure that no electrical lines are behind planned drilling areas.
- The LED light line may not be disassembled, modified or changed in any way.
- When the LED light line is damaged or not functioning correctly then it should not continue to be operated and

must be removed from the power supply. Have the light line inspected by a qualified technician.

DANGER

RISK OF INJURY, RISK OF BLINDING

THE LED LIGHT LINE LUMINATES VERY BRIGHTLY. LOOKING INTO THE LIGHT SOURCE CAN DAMAGE THE EYES.

- Never look directly or with optical instruments into the light of the LED light line.

RISK OF EXPLOSION

DO NOT USE THE PRODUCT IN AREAS OR AMBIENT CONDITIONS IN WHICH EXPLOSIVE OR COMBUSTIBLE GASES, FUMES OR DUST ARE PRESENT. THERE IS A RISK OF EXPLOSION AND FIRE.

- Do not install and operate in explosive or fire endangered areas!

In commercial institutions it is necessary to observe the accident prevention regulations of the trade association for electrical systems and equipment.

- The operation of the LED light line is only permitted with a suitable controller/power supply.
- Observe the permitted voltage in der chapter „5. Technical Data“.

EXCLUSION OF LIABILITY

Damage to the product, which is caused by non-observance of these instructions, voids any warranty claims and guarantees. Barthelme will not be liable for any consequential damages which may occur.

The same is valid for any material damages or personal harm which may occur as a result of improper handling and non-observance of the safety precautions.

DELIVERY / SCOPE OF DELIVERY

After receipt of the goods please check whether the delivery is complete and whether the items are intact. The delivery consists of one reel FLEXLUC TopView 11 including a connection cable and operating instructions.

AREA OF APPLICATION

Examples for applications of the FLEXLUC TopView 11:

- accent illumination
- architectural illumination
- shipbuilding
- stairway illumination
- trade fair lighting
- illumination for outdoor, wellness
- backlight for illumination of letters
- illumination for bars, and many more

Before using the 48 V version, the legal regulations for the respective area of application must be checked.

TECHNICAL DATA [EXTRACT]

FLEXLUC TopView 11



item Number	typ. color temperature	typ. Watt/Meter	typ. Lumen/Watt	typ. Lumen/Meter	typ. CRI
20200027	2900 K	16 W/m	74 lm/W	1.190 lm/m	90
20200040	4300 K	16 W/m	80 lm/W	1.280 lm/m	90

Estimated lifetime L70/B50 at $T_a < 49\text{ °C}$: > 60,000 h

1 The EEC rating refers in each case to the installed light source(s).

Detailed technical information can be found in the relevant data sheet at www.barthelme.de

INSTALLATION AND COMMISSIONING

ASSEMBLY AND PROCESSING INSTRUCTIONS

Separate the mains voltage and power supply voltage of the power supply unit before installation and connection!

The electrical connection may only be conducted by a trained electrician who has knowledge of the applicable regulations!

Switch off the automated circuit breakers and unscrew the fuse. Also switch off the ground fault circuit interrupter so that the mains supply line is separated from the mains voltage. Secure the ground fault circuit interrupter so that it can't inadvertently be switched on – either with a lock or with a warning sign.

Subsequently ensure that there is no voltage in the line with an appropriate voltage tester (e.g. digital multi-meter). A correctly dimensioned power supply unit and controller (extended functions) are required for the operation of the LED light line.

For this see: Recommended controllers for the operation of the LED light line

- The processing temperature range of the FLEXLUC TopView 11 is between 15°C and 35°C. Temperatures below this can negatively influence the flexibility of the lightline and can result in damage. If the FLEXLUC TopView 11 was previously exposed to lower or higher temperatures, then it must be slowly brought into the processing temperature range.
- Please note that the FLEXLUC TopView 11 can marginally expand or contract with changes in temperature at the installation location. This is not a defect in the product but a normal physical process. Specifically, this means that there is a linear thermal expansion of approx. 1 mm per meter and 15 °C change in temperature. This extra expansion gap should always be taken into consideration prior to installation.
- To avoid damaging the FLEXLUC TopView 11, especially during unrolling or mounting, it is important that two people install the product. This is especially valid for a length of one meter (1 m) or more. Care should be taken that the product does not sag otherwise irrevocable damage can occur (see illustration 1). Furthermore, the encapsulation of the product may not be damaged otherwise a sufficient protection of the LED lightline cannot be ensured. It is important to never exceed the minimum bending radius!
- The minimum bending radius of the FLEXLUC TopView 11 is 50 mm. The minimum bending radius may not be exceeded and the lightline may not be bent, otherwise the FLEXLUC TopView 11 could be damaged (see illustration 2).

The LED lightline has been tested for a maximum of 5 days in continuous underwater use. For longer periods of underwater use we recommend our FLEXLUC S:OLID underwater light line.

For more information, visit www.barthelme.de

The product is suitable for installation on the floor, wall or ceiling – indoors and outdoors. Make sure that the product is mounted on a clean, flat and stable surface.

Depending on the surface and the application, the installation can be performed with thermal conductive double-sided adhesive tape (item-no. 30033009) or with construction adhesive (item-no.63500030).

The FLEXLUC TopView 11 must not be fitted over joints that may expand and contract due to ambient conditions. In particular, the thermal expansion of materials must be taken into account. It is therefore recommended to use mounting profiles according to the rule: FLEXLUC length in cm < mounting profile length in one piece. Failure to observe this rule will inevitably compress or stretch the LED light line and void the warranty.

If you use adhesive tape, please ensure that the surface to be taped is dry, even, and clean (no fat, oil, silicone and dust particles). To achieve best adhesion, the surface of the FLEXLUC mini should also be clean (if necessary clean the surface of the LED light line with a soft, slightly damp cloth. To remove more severe stains use a standard cleansing material without abrasive elements).

Fix the tape on the bottom side of the FLEXLUC TopView 11 or on the mounting surface and press the LED light line firmly. The contact pressure should not exceed 10 to 15 N/cm², otherwise the LEDs or the electronic parts of the FLEXLUC TopView 11 could be damaged.

If you select the construction adhesive then it is important to ensure an even and slight wave form distribution. The amount of adhesive used should be relative to the size of the required adhesive surface.

ILLUSTRATION 1:

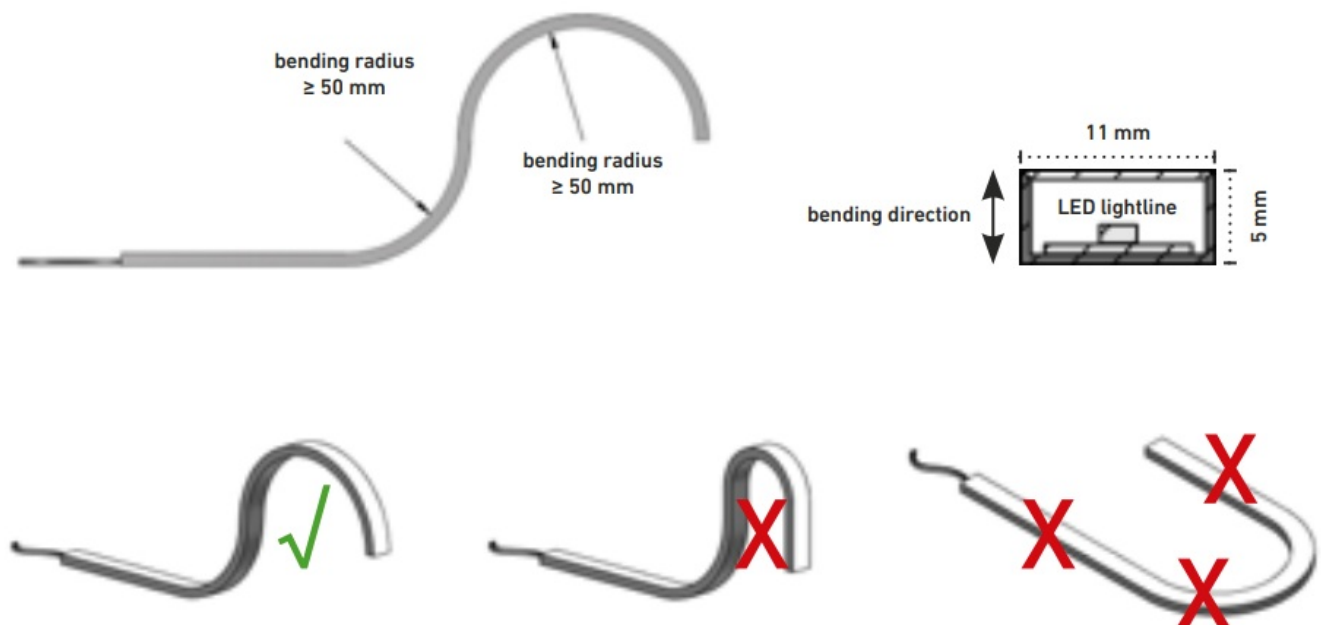
PLEASE NOTE BEFORE INSTALLATION

The product should always be installed by two people in order to avoid a sagging of the LED light line.



ILLUSTRATION 2:

BENDING RADIUS FLEXLUC TopView 11 ≥ 50 mm



CONNECTION / COMMISSIONING

- Following the mechanical installation of the FLEXLUC TopView 11 it may now be connected and put into operation.
- Only a qualified electrician, who is familiar with the applicable standards and guidelines, is permitted to perform the electrical connection. Ensure that none of the devices are energized during the initial operation!
- To operate the FLEXLUC TopView 11, a power supply unit suitable for the specifications of the lightline is required. If applicable, a control unit (for dimming of single colours or colour change/dimming of RGB), may be required. We recommend, for example, the controller CHROMOFLEX Casambi.
- The FLEXLUC TopView 11 is designed for 24 V DC operation. Pay attention to the voltage information on the type sticker. Non-observance or operation with a different voltage can damage the lightline. In this case we do not assume any liability.
- Connect both output terminals of the power supply with the input terminal of the controller (if you do not use the white tone dimming function, connect the output terminals directly to the connection cable of the strip).
- Now connect the cable of the FLEXLUC TopView 11 to the terminals on the marked output side of the controller (see also the controller manual).

Wire allocation single colour: white: +24 V DC / grey: 0 V V DC

- The product is ready for operation once the power supply unit has been connected to 230 V AC.
- If you connect more than one FLEXLUC TopView 11 to a power supply/controller, make sure that the power supply unit and the controller can provide sufficient power.
- Please pay attention to the polarity! With an incorrect polarity, there will be no light emission and the LED module may be damaged!
- Operate the product only if it functions properly. In case of malfunction, switch the product off immediately and operate it again only after a qualified electrician has verified the functionality.

A malfunction can be deemed when:

- damage to the product is visible
- the product does not function properly or it flickers

- overheating is visible or the lightline smells burnt
- Avoid mechanical pressure on the LED lightlines!
- Only a parallel connection provides a safe operating state. We explicitly advise against a series connection of the LED modules. Asymmetric voltage drops may cause a severe overloading and destruction of single modules.
- Please pay attention to the dimensioning of the power supply! Dimming is only possible with the PWM method.
- Do not install the luminaire on or next to hot items/surfaces.

CLEANING

Clean the LED lightline with a soft, slightly damp cloth. To remove more severe stains use a standard cleansing material without abrasive elements.

ACCESSORIES

- 30033019 Heat resistant double-sided tape, with excellent adhesive properties, 33 m x 9 mm 63500033
Construction adhesive, one component, firm-elastic, white, cartridge 290 ml
- 20200001 Dichtkappen-Set, 5-teilig, 4 Stück Dichtkappen plus eine kleine Tube Silikonkleber

DISPOSAL


If the LED lightline can no longer be used, disconnect it from the power supply and dispose of it according to the environmental regulations of your country. Electronic and electrical waste may not be disposed of in the household rubbish. If you have any questions regarding the disposal, please contact your local waste management company. Subject to change.



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Documents / Resources

	<p>Barthelme FLEXLUC TopView 11 LED Strip Light [pdf] User Manual 20200027, 20200040, FLEXLUC TopView 11 LED Strip Light, FLEXLUC TopView 11, LED Strip Light, Strip Light, Light</p>
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References

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