

LEDlight flex 16 8 STANDARD 500 IP66-MFC 2.0

- Length 500 cm
- LED strips with protection against condensation
- ideal for applications in environments with high humidity or condensation (e. g. in bathrooms and protected outdoor areas)
- very high color rendering: CRI Ra typ. 90
- high efficiency: up to 117 lm/W at 4000 K
- long operating life L70 /B50 > 60,000 h at Tc < 80 °C
- current regulation by IC for constant brightness over the entire light line
- max. operable length: 14.70 m at 24 V at the feed point
- with TVS surge protection diode
- with high-quality 3M double adhesive tape



Please observe the installation and safety instructions at <https://www.barthelme.de/content/en/manuals.aspx> !

PHOTOMETRIC DATA



	50413128T	50413133T	50413134T
Typ. color temperature	2700 K	3000 K	4000 K
Light color	warm white	white	cold white
Typ. luminous flux per meter	480 lm/m	530 lm/m	560 lm/m
Efficiency	100 lm/W	110 lm/W	117 lm/W
Typ. color rendering index	90		
LED beam angle	120 °		
Lifetime L70	>60000 h		

ELECTRICAL DATA

	50413128T	50413133T	50413134T
Operating voltage	24 V DC		
Typ. operating current	1000 mA		
Typ. power	24 W		
Typ. power per meter	4,8 W/m		

MECHANICAL DATA

	50413128T	50413133T	50413134T
Length stripe	5000 mm		
Width stripe	8 mm		
Height stripe	1,4 mm		
Number of LEDs per cut	6		
Number of LEDs per metre	60		
Number of cuts	50		
Length per cut	100 mm		
Type of protection	66-MFC		
Bending radius	20 mm		
Length connector cable	500 mm		
	50013128T	50013133T	50013134T
Color temperature	2700 K	3000 K	4000 K
Cut	Cut length 100 mm, 2700 K	Cut length 100 mm, 3000 K	Cut length 100 mm, 4000 K

*The LEDlight flex IP 66-MFC (= Micro Film Coating) and BASIC IP 54 series have a micro coating of silicone to protect against dew moisture. This means that applications in environments with increased humidity (e.g. bathrooms and protected outdoor areas) can also be equipped with Barthelme LEDlight flex lighting solutions. Since the MFC and IP 54 strip features an ultra-thin coating, in contrast to the complete encapsulation of the AQUALUC series, the LED strip must always be additionally protected by a suitable housing. For use in directly exposed areas, our encapsulated product portfolio must be used. We recommend the use of approved Barthelme aluminum profiles, as well as compatible diffusers and end caps. To test the IP 66 MFC strips, an IPx6 test was carried out in accordance with DIN EN 60598-1. The test specimen was exposed to a strong jet of water from all directions for 3 minutes. The LEDlight flex IP 66-MFC strips are not protected against temporary or permanent immersion. Moisture must not be allowed to stand on the strips for a longer period of time. To achieve the dielectric strength according to DIN EN 60598-1, a suitable housing must also be used. Please note that cutting and soldering will damage the IP protective layer. To restore full protection, the cut and soldered areas must be resealed. A recommendation of protective lacquers approved by us can be found on www.barthelme.de. The use of LED strip connectors to connect and join LED strips without tools is not permitted for the MFC and IP 54 strips.

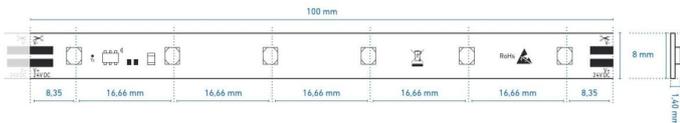
FURTHER DATA

	50413128T	50413133T	50413134T
Max. operable length ¹		14700 mm	
Storage temperature		-30° C ~ +80° C	
Max. temperature Tc ²		80 ° C	

¹The value given applies to the application of the rated voltage at the first module section. When using a supply line, the maximum operable length changes depending on the supply line length and its cross section. At www.barthelme.de you will find an overview table for orientation.

²The Tc point is marked on each cut. This should be measured in the thermally stable state.

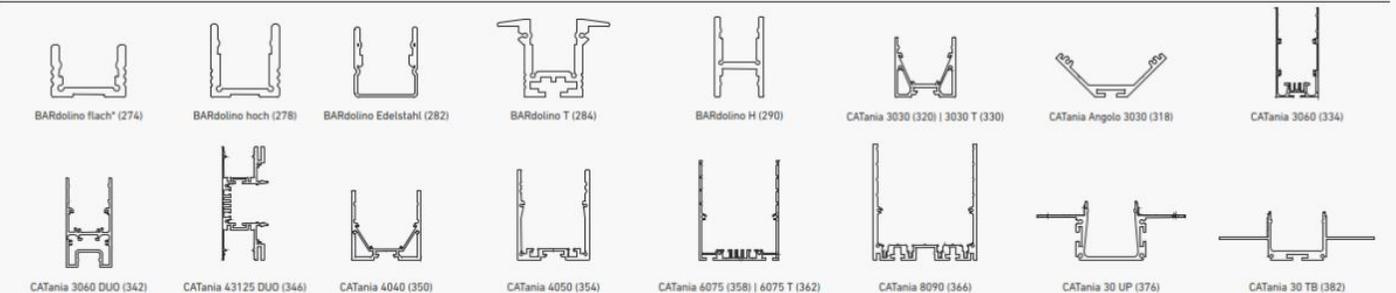
TECHNICAL DRAWING



PROFILNUTZUNG MIT SICHTBAREN LICHTPUNKTEN | PROFILE USE WITH VISIBLE LIGHT POINTS



PROFILNUTZUNG MIT HOMOGENEM LICHT | PROFILE USE WITH HOMOGENEOUS LIGHTING



* = eine homogene Lichtlinie ist nur in Kombination mit einer hohen Abdeckung möglich | a uniform light line is only possible in combination with a high diffusor

** = nur in Kombination mit rechteckiger Abdeckung | only in combination with rectangular diffusor

@ max. Ta = 25 °C im Betrieb und Montagesituation Aufbau (Einbau bei CATania 30 UP und CATania 30 TB) ansonsten ggf. unzureichende Kühlung |

@ max. Ta = 25 °C in operation and surface mounted installation (recessed installation with CATania 30 UP and CATania 30 TB) otherwise possibility of insufficient cooling

Bitte beachten: Unzureichende Kühlung beschädigt den LED-Streifen! Verarbeitungshinweise zu LEDlight flex siehe www.barthelme.de | Please note: insufficient cooling will damage the LED strips! Processing notes for LEDlight flex see www.barthelme.de

NOTES

LEDs and the electronic components/devices required for their operation are wearing parts and can function for many years depending on use and location. In general, these products are subject to an aging process, the light output of LEDs decreases in the course of their operating life. The aging of LEDs is due to thermal influences. Our LEDs correspond to the operating life, which has e.g. a L90/B10 value. This means that the installed LEDs of a given type retain at least 90% of their luminous efficiency and a maximum of 10% of the installed LEDs can deviate from this. Thus, the decrease of the luminous effect of the LED within the above-mentioned scope within the operating life does not represent a defect according to the current state of technology.

Never glue the LED strip over a profile joint! Due to physical expansion or contraction of the profile due to temperature fluctuations, the LED strip can be damaged. This can be remedied by using the right parts for the solder pads at the joint and by using flexible connections, e.g. soldered flexible wire bridges or LED strip connectors.

The adhesion of our LEDlight flex strips to the profiles we offer and their different surfaces has been tested and can be ensured if the processing instructions are followed. If there are adhesion problems between LED strips and aluminum profiles, we recommend pre-treatment with the adhesion promoter "3M™ Tape Primer 94".

The guarantee period for the product is 5 years and begins on the day of shipment. Reference is the date of the delivery bill. The guarantee period may differ for accessories.

DISPOSAL

Please help to avoid waste. Should you ever wish to part with this item, please remember that many of its components are made of valuable raw materials and can be recycled. Therefore, please do not dispose of it in the dustbin, but please take it to your collection point for electrical appliances. Thank you for your cooperation!

