

# LED STRIP BASIC CSP 480 IP54

- flexible CSP (chip-scale package) LED strip with advanced LED technology and high luminous efficacy with protection against splash water and dew moisture
- ideal for indoor and outdoor applications protected from the weather
- very suitable for installation in flat profiles
- high-quality 3M double-sided adhesive tape on the back for easy installation
- the very short pitch of only 50 mm offers great flexibility in luminaire construction
- high quality of light and true-to-life representation of colors thanks to a high color rendering index > 90 (CRI>90)
- continuously dimmable without loss of efficiency
- extremely high chip density: 480 LED chips per meter
- the beam angle of the CSP LED strip is 150°



## PHOTOMETRIC DATA

24 VDC	14,4 W/m	PITCH 2.1	150°	220 cm max
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	51542927	51542930	51542940
Typ. colour temperature ±15%	2700 K	3000 K	4000 K
Light color	warm white	white	cold white
Typ. luminous flux per meter	1296 lm/m		
Efficiency	90 lm/W		
EEC of installed light source(s)	F		
Typ. color rendering index	90		
LED beam angle	150 °		
Lifetime L70	50000 h		

## ELECTRICAL DATA

	51542927	51542930	51542940
Operating voltage	24 V DC		
Typ. operating current	3 A		
Typ. power	72 W		
Typ. power per meter	14,4 W/m		

## MECHANICAL DATA

	51542927	51542930	51542940
Length stripe	5000 mm		
Width stripe	8 mm		
Height stripe	2 mm		
Number of LEDs per metre	480		
Number of cuts	100		
Length per cut	50 mm		
Type of protection	IP 54		
Bending radius	30 mm		
Length connector cable	150 mm		

LED strips with IP protection have a silicone micro-coating to protect against splash water and dew. This means that Barthelme lighting solutions can also be used for applications in environments with increased humidity or dew (e.g. bathrooms and protected outdoor areas). Please note that the IP protection layer is damaged when cutting and soldering the LED strips. To restore full protection, the cut and soldered areas must therefore be resealed. A recommendation of the protective lacquers approved by us for this purpose can be found at [www.barthelme.de](http://www.barthelme.de). The use of plug connectors is not permitted for LED strips with IP protection.

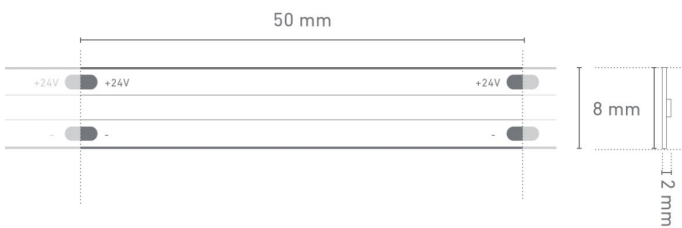
## FURTHER DATA

	51542927	51542930	51542940
Max. operable length <sup>1</sup>		2200 mm	
Operating temperature		-25 °C ~ +45 °C	

<sup>1</sup>The 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.

The LED strip can be operated up to 5 m, but a visible loss of brightness is possible.

## TECHNICAL DRAWING

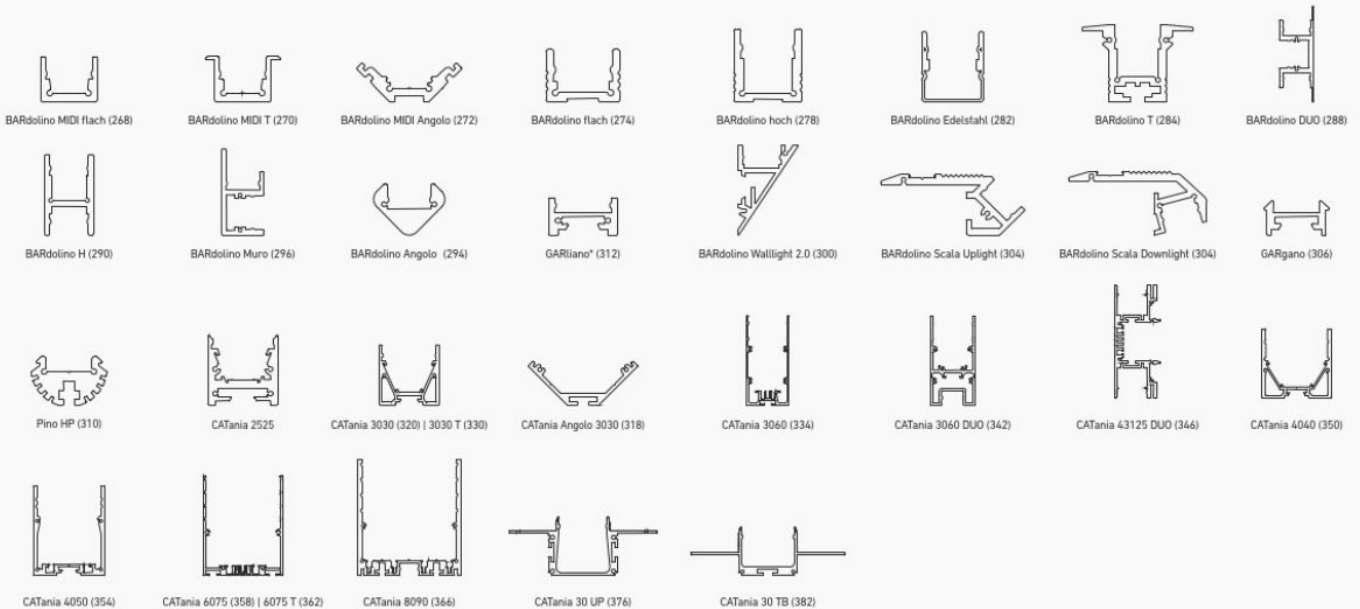


### PROFILNUTZUNG MIT SICHTBAREN LICHTPUNKTEN | PROFILE USE WITH VISIBLE LIGHT POINTS



GARIano flex (316)

### 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](http://www.barthelme.de) | Please note: insufficient cooling will damage the LED strips! Processing notes for LEDlight flex see [www.barthelme.de](http://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 L70 value. This means that the installed LEDs of a given type retain at least 70% of their luminous efficiency. 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 2 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!

