

# LEDlight flex 16 10 STANDARD RGBW

- combination of RGB LED and single LED enables homogeneous colour mix
- straightforward regulation via com+ (we recommend our CHROMOFLEX series)
- RGBW (RGB + white): generates pastel shades, pure white and warmer and cool white tones (comparable with controlled white)
- long LED lifetime due to current limiter with integrated temperature control, high amount of copper in FPC and 3M thermoconducting adhesive tape
- estimated lifetime L70 at Tc < 65 °C: > 30,000 h



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



## PHOTOMETRIC DATA

	50414928	50414933	50414934
Typ. color temperature	2700 K	3000 K	4000 K
Light color	RGBW		
Typ. luminous flux per meter - total	775 lm/m		875 lm/m
Typ. luminous flux per meter - red	72 lm/m		
Typ. luminous flux per meter - green	198 lm/m		
Typ. luminous flux per meter - blue	62 lm/m		
Typ. Lichtstrom je Meter - weiß	443 lm/m	543 lm/m	
Efficiency total	39 lm/W	44 lm/W	
Typ. color rendering index	90		
LED beam angle	120 °		
Lifetime L70	>30000 h		

**Note:** Our RGB bands are principally intended as an accent and mood lighting. The LEDs are binned on brightness and wavelength (when choosing one of these colors the band in color/brightness is uniform), but when mixing the 3 colors to "white" the whiteness within the stripe can distinguish visible.

## ELECTRICAL DATA

	50414928	50414933	50414934
Operating voltage	24 V DC		
Typ. operating current	4,17 A		
Typ. power	100 W		
Typ. power per meter	20 W/m		

## MECHANICAL DATA

	50414928	50414933	50414934
Length stripe	5000 mm		
Width stripe	10 mm		
Height stripe	2,5 mm		
Number of LEDs per cut	12		
Number of cuts	50		
Length per cut	100 mm		
Type of protection	IP 00		
Bending radius	20 mm		
Länge Anschlusskabel	500 mm		

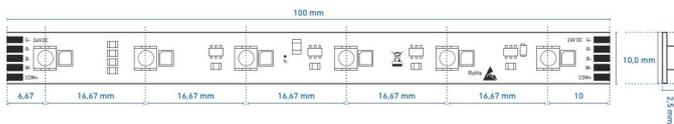
	50014928	50014933	50014934
<b>Color temperature</b>	2700 K	3000 K	4000 K
<b>Cut</b>	Cut Länge 10 cm; RGB+2700 K	Cut Länge 10 cm; RGB+3000 K	Cut Länge 10 cm; RGB+4000 K

ORDER YOUR DESIRED INDIVIDUAL STRIP LENGTH [CUT]: The order quantity is a multiple of the smallest cutting length of the LED strip (cut). Ordering example: To order your required length of 210 cm of LEDlight flex High Efficiency 08 8 cool white (4000 K): 35x Art.-No. 50008634 (cut length 60 mm x 35 = 210 cm). If you re-quire varying strip lengths then please order each strip length as a separate position.

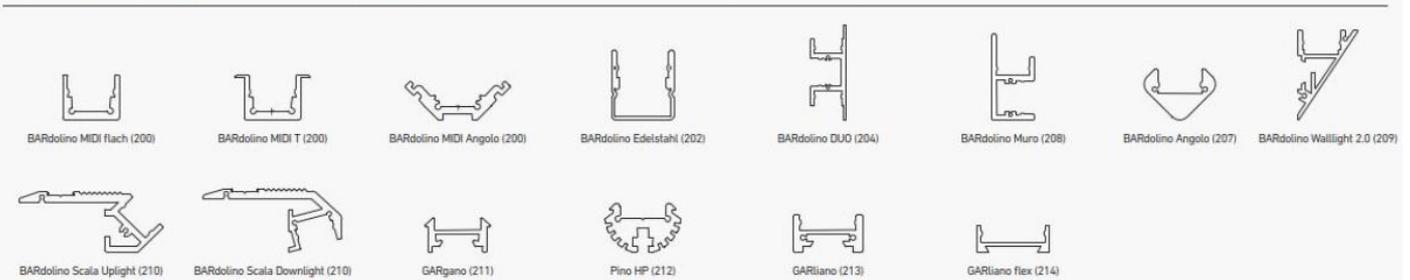
## GENERAL DATA

	50414928	50414933	50414934
<b>Max. operable length<sup>1</sup></b>		5200 mm	
<b>Storage temperature</b>		-30° C ~ +80° C	
<b>Max. temperature Tc<sup>2</sup></b>		65° C	

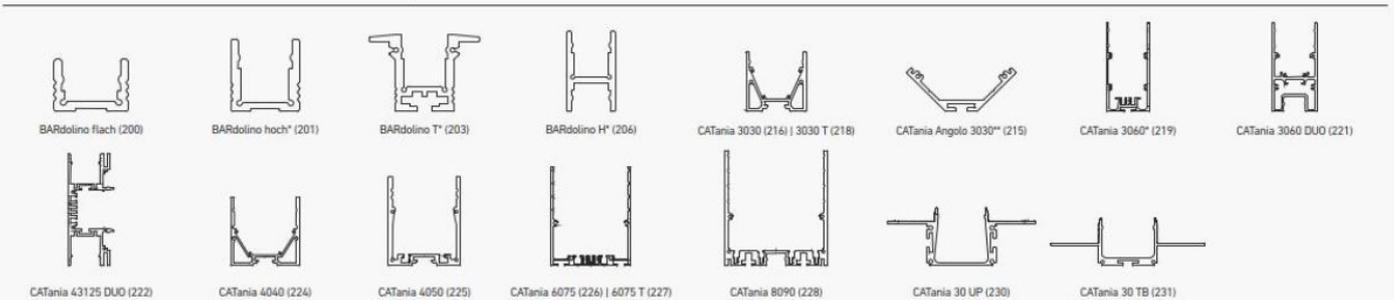
## TECHNICAL DRAWING



### 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 diffuser

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

@ 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 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 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.

## ENTSORGUNG

Bitte helfen Sie mit, Abfall zu vermeiden. Sollten Sie sich einmal von diesem Artikel trennen wollen, so bedenken Sie bitte, dass viele seiner Komponenten aus wertvollen Rohstoffen bestehen und wiederverwertet werden können. Entsorgen Sie ihn daher nicht in der Mülltonne, sondern führen Sie ihn bitte Ihrer Sammelstelle für Elektrogeräte zu. Vielen Dank für Ihre Mithilfe!

