LEDlight flex 16 10 STANDARD RGBW IP66-MFC

- LED-Streifen mit Schutz vor Taufeuchte
- ideal für Anwendungen in Umgebung mit erhöhter Luftfeuchtigkeit (z.B. Bad- und geschützte Außenbereiche)
- Kombination aus RGB- und Einzel-LED sorgt für homogene Farbmischung
- einfache Ansteuerung über com+
- RGBW (RGB + Weiß): erzeugt Pastelltöne, ein reines Weiß sowie wärmere bzw. kühlere Weißtöne (vergleichbar mit tunable white)
- lange Lebensdauer durch Stromkonstanter mit Temperaturkontrolle, hohen Kupferanteil im FPC und wärmebeständigem 3M Klebeband
- Lebensdauerabschätzung L70 bei Tc < 65 °C: > 30.000 h

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

PHOTOMETRIC DATA

	50414928T	50414933T	50414934T
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. luminous flux per meter - white	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

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

MECHANICAL DATA

	50414928T	50414933T	50414934T
Length stripe	5000 mm		
Width stripe	10 mm		
Height stripe	2,5 mm		
Number of LEDs per cut	12		
Number of LEDs per metre	120		
Number of cuts	50		
Length per cut	100 mm		
Type of protection	66-MFC		
Bending radius	20 mm		

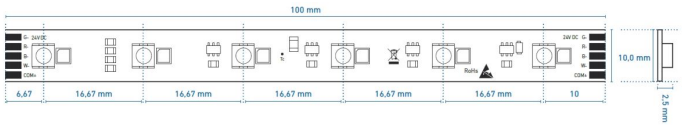
	50414928T	50414933T	50414934T
Length connector cable	500 mm		

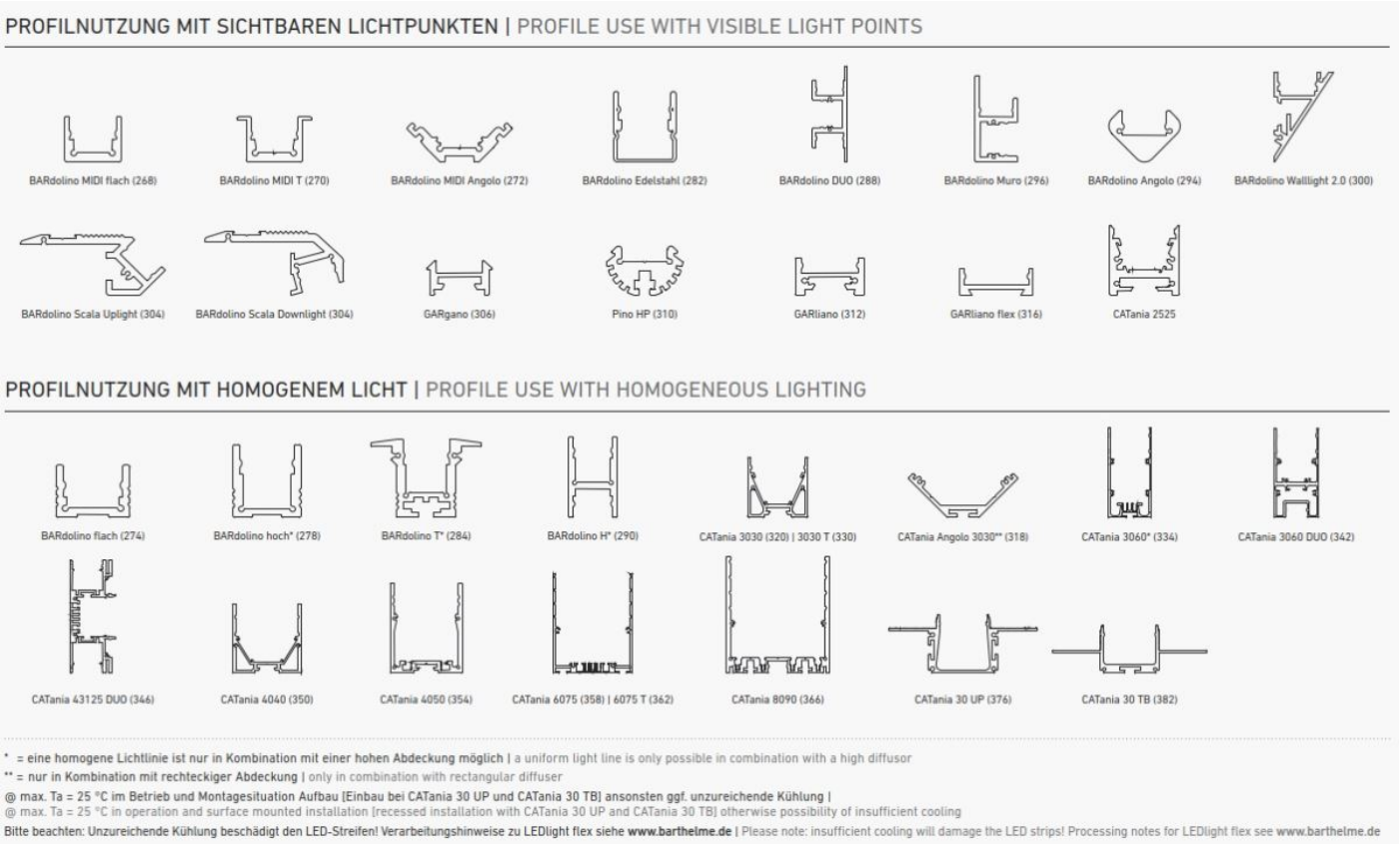
*The LEDlight flex IP 66-MFC (= Micro Film Coating) and BASIC IP 54 series have a micro coating of silicone to protect against dew moisture. This means that applications in environments with increased humidity (e.g. bathrooms and protected outdoor areas) can also be equipped with Barthelme LEDlight flex 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.

GENERAL DATA

	50414928T	50414933T	50414934T
Max. operable length[1]	5200 mm		
Max. temperature Tc[2]	65 ° C		

TECHNICAL DRAWING





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!