

LEDlight flex 12 8p 48V 1000

- up to 2.6 times higher in-feed length compared to 24 V DC
- ideal for extra long light lines with only one power supply
- excellent color rendering: CRI Ra typ. 94, R9 > 50
- long light lines with only one feed through double layer FPC possible
- very long operating life L90/B10 > 60,000 h at Tc < 80 °C
- current regulation by IC for constant brightness over the entire light line with integrated overheating protection
- with reverse polarity protection diode and 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> !

Note re light sources/EPREL: Our LED reels are not subject to classification according to the currently valid regulations. An LED reel contains interconnected light sources, the number and energy efficiency class of which are listed in the data sheet.



PHOTOMETRIC DATA

	50412228	50412233	50412234
Typ. color temperature	2700 K	3000 K	4000 K
Light color	warm white	white	cold white
Typ. luminous flux per meter	1135 lm/m	1057 lm/m	
Efficiency	142 lm/W	132 lm/W	
Built-in light source	C50012228	C50012233	C50012234
Number of light sources	224		
EEC of built-in light source	E		
Typ. color rendering index	94		
LED beam angle	120 °		
Lifetime L90/B10	>60.000 h		

ELECTRICAL DATA

	50412228	50412233	50412234
Operating voltage	48 V DC		
Typ. operating current	3,35 A		
Typ. power	161 W		
Typ. power per meter	8 W/m		

MECHANICAL DATA

	50412228	50412233	50412234
Length stripe	20160 mm		
Width stripe	8 mm		
Height stripe	2,7 mm		
Number of LEDs per cut	7		
Number of LEDs per metre	78		
Number of cuts	224		
Length per cut	90 mm		
Type of protection	IP 00		
Bending radius	20 mm		
Length connector cable	500 mm		

	50012228	50012233	50012234
Color temperature	2700 K	3000 K	4000 K
EEC of built-in light source	E		
Cut	Cut length 90 mm, 2700 K	Cut length 90 mm, 3000 K	Cut length 90 mm, 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 180 cm of LEDlight flex 12 8p 48V 1000 cool white (4000 K): 20x Art.-No. 50012234 (cut length 90 mm x 20 = 180 cm). If you re-quire varying strip lengths then please order each strip length as a separate position.

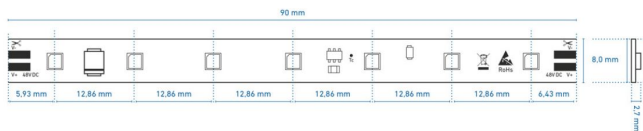
FURTHER DATA

	50412228	50412233	50412234
Max. operable length¹	23490 mm		
Storage temperature	-30° C ~ +80° C		
Max. temperature Tc²	80 ° C		

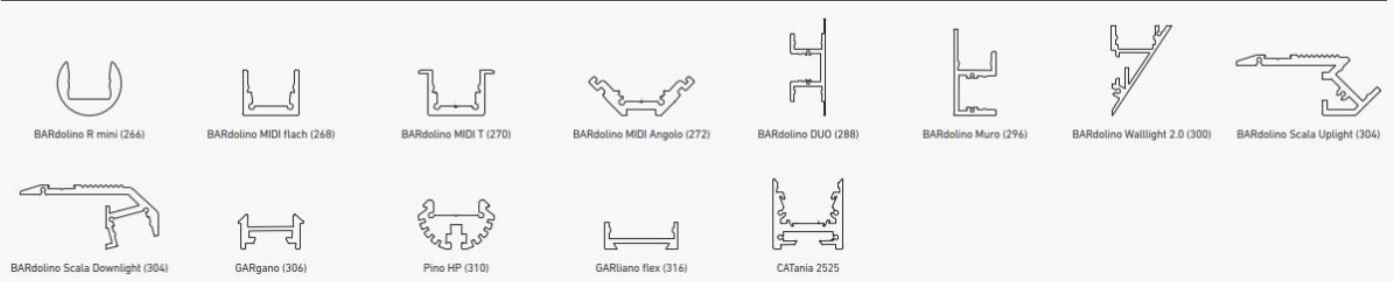
¹The value given applies to the application of the rated voltage at the first module section. When using a supply line, the maximum operable length changes depending on the supply line length and its cross section. At www.barthelme.de you will find an overview table for orientation.

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

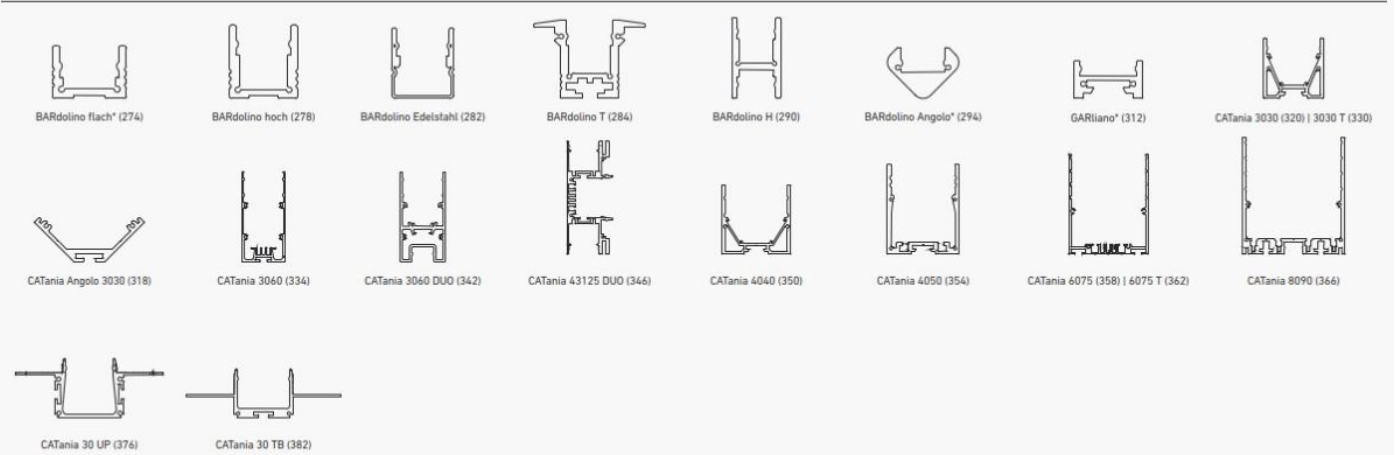
TECHNICAL DRAWING



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 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 | 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!

