

# **AQUALUC** mini High Brightness frosted

- fully encapsulated flexible LED light line with thermal conducive polyurethane-ceramic compound and IP 67\* protection
- only one bin per color according to 3 step MacAdam
- high luminous flux of over 2,000 lm/m possible
- high efficiency with Barthelme LEDlight flex High Efficiency LED strip of up to 123 lm/W (at light color 840 with clear version)
- · resistant to water, UV radiation, abrasion and chemicals
- compact dimensions of only 10,5 x 5 mm
- small bending radius of only 50 mm (only one axis)
- current limiter and high amount of copper in FPC enable a long lifetime
- frosted reduces the glare effect



Please observe the installation and safety instructions at https://www.barthelme.de/content/en/manuals.aspx ! When ordering, please note the article number scheme at the end of the data sheet.

#### PHOTOMETRIC DATA



	AQUA-2006-0027	AQUA-2006-0031	AQUA-2006-0040	AQUA-2006-0055	
Type of color		White			
Grouting		frosted			
Typ. color temperature	2700 K	3100 K	4000 K	5500 K	
Light color	warm white	white	cold white	daylight	
Typ. total luminous flux per metre	1608 lm/m	1642 lm/m	1769 lm/m	1725 lm/m	
Efficiency	93 lm/W	95 lm/W	102 lm/W	100 lm/W	
Energy efficiency class	A+				
Typ. color rendering index	85				
Beam angle	120 °				
Dimming	dimmable				
LED strip used	LEDlight flex 12 8p High Efficiency Plus				
L80 bei Ta < 40°C	> 60.000 h				

Note: The stated Energy Efficiency Class (EEK) refers to a product length of 1m. The EEK may differ for other lengths. Length tolerance +/-5 mm at < 1 m and +/-0.2 % at > 1 m

PHOTOMETRIC DATA TOLERANCES IN THE AQUALUC FAMILY: The stated photometric data of the AQUALUC products are typical values which in practice are influenced by the binning of the LED's as well as the individual production steps in the encapsulation process. Factors such as layer thickness, type of encapsulation and the light color of the uncoated LED's have an influence on the resulting color temperature of the finished AQUALUC product. As each of these factors are subject to process and production related tolerances the resulting photometric data of the AQUALUC products can deviate from the stated typical values.

# **ELECTRICAL DATA**

	AQUA-2006-0027	AQUA-2006-0031	AQUA-2006-0040	AQUA-2006-0055
Operating voltage	24 V DC			
Power per meter	17,3 W/m			

#### **MECHANICAL DATA**

	AQUA-2006-0027	AQUA-2006-0031	AQUA-2006-0040	AQUA-2006-0055
Width	10,5 mm			
Height	5 mm			



	AQUA-2006-0027	AQUA-2006-0031	AQUA-2006-0040	AQUA-2006-0055
Bending radius	50			
Type of protection	IP 67			

# **GENERAL DATA**

	AQUA-2006-0027	AQUA-2006-0031	AQUA-2006-0040	AQUA-2006-0055
Ambient temperature Ta	-20 ° C ~ +40 ° C			
Max. temperature Tc	72 ° C			
Max. operable length	4800 mm			
Max. buildable length with 1 m cable	4791 mm			
Remarks	Connection/forwarding cable: optionally 1 - 6 m with free wire ends or 0.35 m with M8 plug			

# **ACCESSORIES**

	40100107	40100108	
Description	AQUALUC mini polycarbonate plastic support profile with adhesive tape, UV resistant		
Material	Plastics		
Length	1000 mm 2000 mm		
Width	13 mm		
Height	9,9 mm		
Fire protection class	B2 (DIN 4102)		
Ambient temperature	-40 ~ +130 ° C		
Remarks	Material: Polycarbonat		

	30033009	63500030	
Description	heat resistant double-sided tape, with excellent adhesive properties	construction one component glue, firm-elastic, white, cartridge 290ml	
Material	Acryl	1K-Hybrid-Polymer	
Length	33000 mm		
Width	9 mm		
Height	0,4 mm		
Remarks	33 m x 9 mm	see separate data sheet	

	66313203	66313210	66313230
Description	M8 connection cable, 316L stainless steel, 2 pole, screwable, molded on cable with cross section 2x 0.5 mm²		
Indoor/Outdoor	Outdoor		
Cable sheath material	PUR		
Halogen-free	Yes		
Color of cable	white		
Wire cross-section	2x0,5 mm²		
Length	350 mm	10000 mm	3000 mm



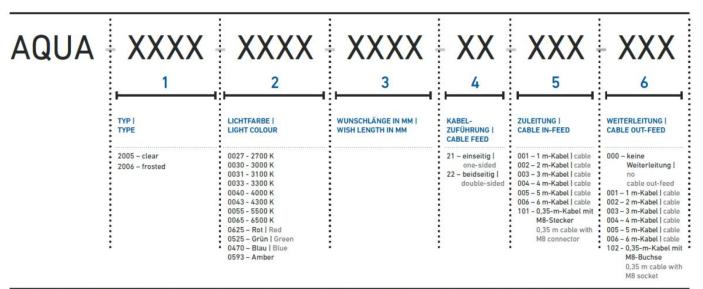








#### ARTICLE NUMBER SCHEME



IN INDIVIDUELLEN LÄNGEN, MIT BEIDSEITIGER UND RÜCKSEITIGER EINSPEISUNG ERHÄLTLICH | AVAILABLE IN INDIVIDUAL LENGTHS, WITH OPTIONAL IN-FEED ON BOTH SIDES AND REAR SIDE

#### NOTE

During the production of encapsulated luminaires, air bubbles may be enclosed in the material. These bubbles are production-related and do not constitute a defect. If the bubbles are within the beam path of an LED, this can constitute a defect.

### **NOTE CHEMICALS**

The AQUALUC encapsulation materials have successfully passed various test series in which resistance to salt, water, UV radiation, abrasion, dust and chemicals were tested. Each AQUALUC light line is ideally suited for indoor and outdoor illumination. For example on facades and bridges, in wellness oases and swimming pools, from maritime areas to industrial applications and vehicle technology - AQUALUC is already being used successfully everywhere. Despite the use of high quality materials and a robust design, there are chemical-related limitations in the areas of application. Please refer to the following link:

https://www.barthelme.de/shared/download/katalog/AQUALUC-Chemische-Mittel-Chemical-Agents.pdf