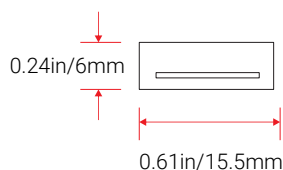


Aqueon® Flat RGB/RGBW

Standard & High Power 24V DC



A new standard of flexible light; superior standards new materials, new methods, military grade components and advanced circuit design to create a flood proof; vibration proof seamless light. Our constant current design ensures to maintain a full illumination in long continuous lengths. IP67 connections. Single bin for accurate color rendering, minimal color shift and exceptional color consistency. Fully dimmable.

FEATURES

- IK08, cUL Listed, UL Listed 2108
- Vertical Bending
- End to end continuous illumination
- Up to 65.6ft(20m) RGB continuous runs
- Cuttable every 3.94"(100mm)- High Power / 7.87"(200mm) - Standard / 6 LEDs
- Static RGB and RGBW options
- RGBW's White LED is available in 2700K, 3000K and 4000K
- 1"(25mm) minimum bending radius
- 5 year limited warranty; 60,000 hrs white, 100,000 hrs color LED lifetime
- Dimmable with Pulse Width Modulation & DMX
- UV/IR protected Silicone Injection Mold IP67
- Ambient working temperature -40°F~131°F (-40°C~55°C)

PART NUMBER & SPECIFICATIONS

Part #	Color	CRI	lm/ft	lm/m	Max Run	W/ft	W/m
Standard Aqueon® Flat RGB/ RGBW							
051629	RGB	>85	67	220	65.6ft 20m	1.83	6
051630	RGBW-27K	>85	67	220	49.2ft 15m	2.29	7.5
051631	RGBW-30K	>85	67	220	49.2ft 15m	2.29	7.5
051632	RGBW-40K	>85	67	220	49.2ft 15m	2.29	7.5
Part #	Color	CRI	lm/ft	lm/m	Max Run	W/ft	W/m
High Power Aqueon® Flat RGB/ RGBW							
051629-12	RGB	>85	134	440	32.8ft 10m	3.66	12
051630-15	RGBW-27K	>85	134	440	26.2ft 8m	4.57	15
051631-15	RGBW-30K	>85	134	440	26.2ft 8m	4.57	15
051632-15	RGBW-40K	>85	134	440	26.2ft 8m	4.57	15

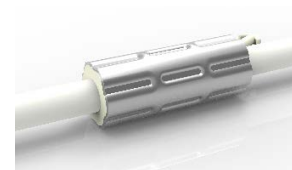
Specifications may be modified or improved without notification

Project

Date

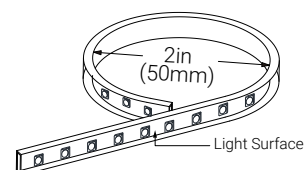
ANTI-WICKING

All connections include a ferrule on the power feed to prevent water wicking through the connection point.

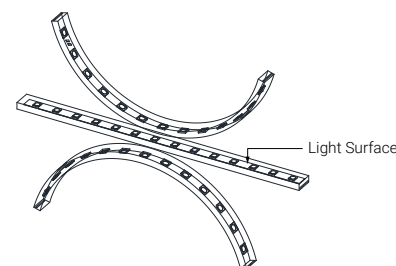


VERTICAL BENDING

Minimum bend diameter
2in (50mm).



The light can only be bent along the light surface.



Do not bend smaller than allowed minimum bend diameter.

Aqueon® Flat RGB/RGBW Standard & High Power

ORGANIC LIGHTING®

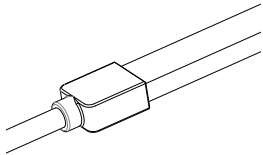
CONNECTORS & ACCESSORIES

Factory assembled 4-wired RGB & 5-wired RGBW Aqueon Flat IP67 accessories include end caps, extension cords and connectors with customizable cord lengths. Snap accessories are field installable.

Project

Date

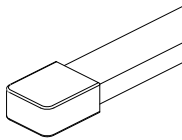
FACTORY ASSEMBLED IP67 CONNECTORS



End Connector, 16'L (4.9m)

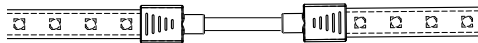
RGB - #051654-CU16

RGBW - #051652-CU16



End Cap

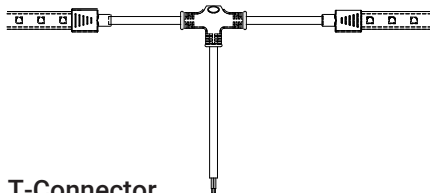
#051686



Extension

RGB - #051653

RGBW - #051602

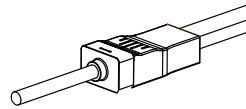


T-Connector

RGB - #051664

RGBW - #051666

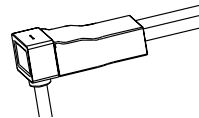
FIELD ASSEMBLY SNAP ON IP67 CONNECTORS



End Snap Connector, 16'L (4.9m)

RGB - #051654S-CU16

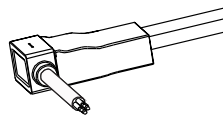
RGBW - #051652S-CU16



Bottom Snap Connector, 16'L (4.9m)

RGB - #051681S-CU16

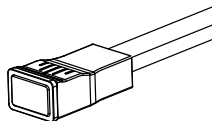
RGBW - #051600S-CU16



Side Snap Connector, 16'L (4.9m)

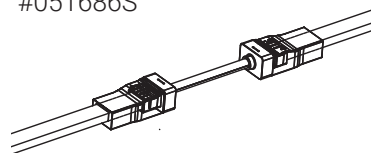
RGB - #051682S-CU16

RGBW - #051601S-CU16



Snap End Cap

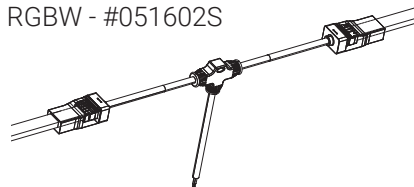
#051686S



Snap Extension

RGB - #051653S

RGBW - #051602S



Snap T-Connector

RGB - #051664S

RGBW - #051666S

Specifications may be modified or improved without notification

Aqueon® Flat RGB/RGBW Standard & High Power



POWER SUPPLIES - 24V

Forward Phase, Reverse Phase, & 0-10V Dimming Drivers. Remote enclosures available.

Part #	Ingress	Voltage	Wattage	Dimensions (inches / mm)	Description
045001	IP67	100-305V	20W	7.6 x 1.18 x 0.79 / 193 x 30 x 20	Dimmable LED Driver
045002	IP67	100-305V	40W	5.83 x 1.57 x 0.87 / 148 x 40 x 22	Dimmable LED Driver
045003	IP67	120-277V	60W	6.3 x 2.24 x 1.5 / 160 x 57 x 38	Dimmable LED Driver
045004	IP67	120-277V	75W	6.3 x 2.24 x 1.5 / 160 x 57 x 38	Dimmable LED Driver
045005	IP67	120-277V	96W	7.6 x 2.24 x 1.5 / 193 x 57 x 38	Dimmable LED Driver
045006	IP67	120-277V	200W	10.1 x 3.03 x 1.8 / 257 x 77 x 46	Dimmable LED Driver
045007	IP67	120-277V	300W	11.9 x 3.03 x 1.8 / 302 x 77 x 46	Dimmable LED Driver

ENCLOSURES

Part #	Ingress	Dimensions (inches / mm)	Description
045008	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	20W Enclosure
045009	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	40W Enclosure
045010	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	60W Enclosure
045011	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	75W Enclosure
045012	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	96W Enclosure
045013	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	200W Enclosure
045014	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	300W Enclosure

DMX CONTROLLER

Part #	Description
011343	100W Digital Controller
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011410	Nicolaude DE3 DMX 512 Controller
011403	Nicolaude DINA-DR1 DMX 512 Controller
050203	LT-200 SPI Controller - For Pixel
050205	DMX512 SPI Converter Decoder - For Pixel

Project

Date

20W-60W Dimmable Driver



75W-300W Dimmable Driver



DMX512 SPI Converter Decoder



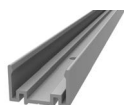
LT-200 SPI Controller



MOUNTINGS & EXTRUSIONS

Mounting Channels to Match any Installation

Aluminum Channel



- High Quality Aluminum
- Lightweight
- Cost Effective

39.37in(1000mm) L - #051694

Clear Lensed Channel, 1/2" H



- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available.

39.37in(1000mm) L - #051695

Clear Lensed Channel, 3/4" H



- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available.

39.37in(1000mm) L - #51696

Frosted Lensed Channel, 1/2" H



- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available

39.37in(1000mm) L - #051697

Frosted Lensed Channel, 3/4" H



- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available

39.37in(1000mm) L - #51698

PVC Mounting Channel



- Light-weight
- Self adhesive

48in(1219mm) L - #037006

Specifications may be modified or improved without notification

CABLE REQUIREMENT

The Aqueon® LED strips need a minimum voltage at the beginning of the LED strip to function according to the specifications. The table below gives an indication of the maximum cable length based on the cable thickness. The standard is starter cable (20 AWG).

In case the required length is longer than the length mentioned in this cable, it is recommended to cut the starter cable down to 1ft and splice a larger gauge cable. Please contact your distributor for a detailed cable calculation.

Cable X Information	RGB LED Strip (1.83 w/ft 6w/m)	Max. Cable Length
20 AWG *standard	3.28 ft/1m	730.4 ft/222.6m
	16.4 ft/5m	137.5 ft/41.9m
	32.8 ft/10m	63 ft/19.2m
	49.2 ft/15m	34.2 ft/10.4m
	65.6 ft/20m	18.1 ft/5.5m
18 AWG	3.28 ft/1m	1137.7 ft/346.8m
	16.4 ft/5m	214.2 ft/65.3m
	32.8 ft/10m	98.2 ft/29.9m
	49.2 ft/15m	53.2 ft/16.2m
	65.6 ft/20m	28.3 ft/8.6m
16 AWG	3.28 ft/1m	1854.1 ft/565.1m
	16.4 ft/5m	349 ft/106.4m
	32.8 ft/10m	160 ft/54.1m
	49.2 ft/15m	86.8 ft/26.4m
	65.6 ft/20m	46 ft/14m
14 AWG	3.28 ft/1m	2907.5 ft/886.2m
	16.4 ft/5m	547.3 ft/166.8m
	32.8 ft/10m	251 ft/76.5m
	49.2 ft/15m	136.1 ft/41.5m
	65.6 ft/20m	72.2 ft/22m

Cable X Information	RGB LED Strip (3.66 w/ft 12w/m)	Max. Cable Length
20 AWG *standard	3.28 ft/1m	334.8 ft/102m
	16.4 ft/5m	62.4 ft/19m
	32.8 ft/10m	25.2 ft/7.7m
18 AWG	3.28 ft/1m	521.5 ft/158.9m
	16.4 ft/5m	97.2 ft/29.6m
	32.8 ft/10m	39.2 ft/12m
16 AWG	3.28 ft/1m	849.8 ft/259.1m
	16.4 ft/5m	158.4 ft/48.3m
	32.8 ft/10m	63.9 ft/19.5m
14 AWG	3.28 ft/1m	1332.6 ft/406.2m
	16.4 ft/5m	248.5 ft/75.7m
	32.8 ft/10m	100.2 ft/30.6m

Cable X Information	RGBW LED Strip (2.29 w/ft 7.5 w/m)	Max. Cable Length
20 AWG *standard	3.28 ft/1m	492 ft/150m
	9.8 ft/3m	144 ft/44m
	16.4 ft/5m	78 ft/24m
	26.2 ft/8m	39 ft/12m
18 AWG	3.28 ft/1m	787 ft/240m
	9.8 ft/3m	230 ft/70m
	16.4 ft/5m	131 ft/40m
	26.2 ft/8m	65 ft/20m
16 AWG	3.28 ft/1m	1246 ft/380m
	9.8 ft/3m	393 ft/120m
	16.4 ft/5m	196 ft/60m
	26.2 ft/8m	98 ft/30m
14 AWG	3.28 ft/1m	1968 ft/600m
	9.8 ft/3m	623 ft/190m
	16.4 ft/5m	328 ft/100m
	26.2 ft/8m	164 ft/50m

Cable X Information	RGBW LED Strip (4.57 w/ft 15 w/m)	Max. Cable Length
20 AWG *standard	3.28 ft/1m	255.8 ft/78m
	9.8 ft/3m	81.3 ft/24.8m
	16.4 ft/5m	45.4 ft/13.9m
	26.2 ft/8m	23.7 ft/7.2m
18 AWG	3.28 ft/1m	398.5 ft/121.5m
	9.8 ft/3m	126.7 ft/38.6m
	16.4 ft/5m	70.8 ft/21.6m
	26.2 ft/8m	36.9 ft/11.3m
16 AWG	3.28 ft/1m	649.4 ft/197.9m
	9.8 ft/3m	206.4 ft/62.9m
	16.4 ft/5m	115.4 ft/35.2m
	26.2 ft/8m	60.2 ft/18.3m
14 AWG	3.28 ft/1m	1018.3 ft/310.4m
	9.8 ft/3m	323.7 ft/98.7m
	16.4 ft/5m	180.9 ft/55.1m
	26.2 ft/8m	94.4 ft/28.8m