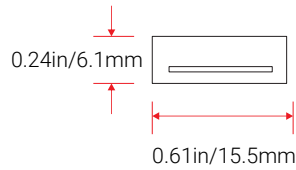


Aqueon® Flat Mono

24V DC 22 27 30 35 40 57 R G B A



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 continuous lengths up to 49ft. IP67 connections. Premium Nichia LEDs. Single bin for accurate color rendering, minimal color shift and exceptional color consistency, with a CRI of 95. Full dimmable.

FEATURES

- Wet Location; UL Listed, 1598
- Vertical Bending
- End to end continuous illumination
- Up to 49.2ft(15m) continuous runs
- Cuttable every 3.25"/82.6mm (White, Green Blue), 4.9"/124.5mm(Red, Amber)
- 2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green , Blue & Wildlife Amber
- 2"(50mm) minimum bending diameter; 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 Molded
- Ambient working temperature -40°F~131°F (-40°C~55°C)

PART NUMBER & SPECIFICATIONS

Aqueon® Flat Mono

Part #	Color	CRI	lm/ft	lm/m	Max Run	W/ft	W/m
051609	2200K	>95	107	350	49.2ft 15m	1.83	6
051610	2700K	>95	122	400	49.2ft 15m	1.83	6
051611	3000K	>95	137	450	49.2ft 15m	1.83	6
051612	3500K	>95	137	450	49.2ft 15m	1.83	6
051613	4000K	>95	137	450	49.2ft 15m	1.83	6
051615	5700K	>95	137	450	49.2ft 15m	1.83	6
051614	6500K	>95	137	450	49.2ft 15m	1.83	6
051616	Red	>95	46	150	49.2ft 15m	1.22	4
051617	Green	>95	107	350	49.2ft 15m	1.83	6
051618	Blue	>95	26	85	49.2ft 15m	1.83	6
051619	Amber	>95	46	150	49.2ft 15m	1.22	4

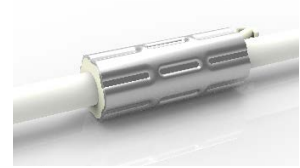
ORGANIC LIGHTING®

Project

Date

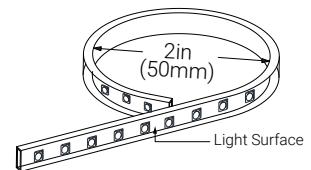
ANTI-WICKING

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

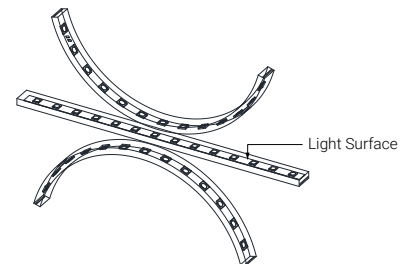


VERTICAL BENDING

Minimum bend diameter 2in (50mm).



The light can only be bent along the light surface.



Do not bend smaller than allowed minimum bend diameter.

Specifications may be modified or improved without notification

Organic Lighting | 12203 Magnolia Avenue, Suite 1, Riverside CA 92503 | 626.969.6140 | www.organiclighting.com | 08/2024 V2



Aqueon® Flat Mono

CONNECTORS & ACCESSORIES

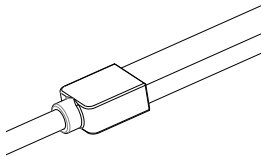
Aqueon Pixel RGB & RGBW IP67 accessories include end caps, extension cords and connectors with customizable cord lengths. Snap accessories are field installable.



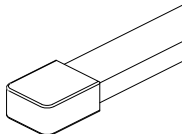
Project

Date

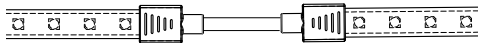
FACTORY ASSEMBLED IP68 CONNECTORS



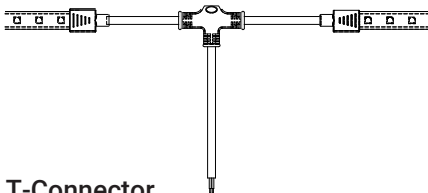
End Connector, 16'L (4.9m)
#051656-CU16



End Cap
#051686

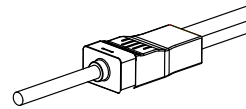


Extension
#051659

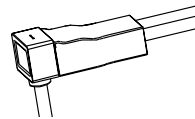


T-Connector
#051658

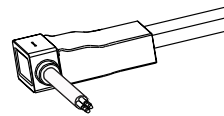
FIELD ASSEMBLY SNAP ON IP67 CONNECTORS



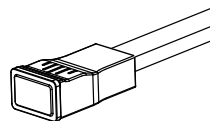
End Snap Connector, 16'L (4.9m)
#051666S-CU16



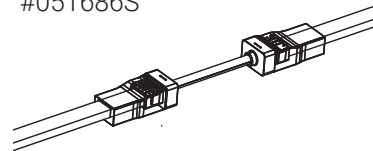
Bottom Snap Connector, 16'L (4.9m)
#051605S-CU16



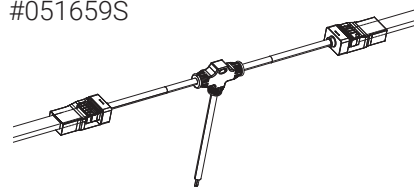
Side Snap Connector, 16'L (4.9m)
#051606S-CU16



Snap End Cap
#051686S



Snap Extension
#051659S



Snap T-Connector
#051658S

Specifications may be modified or improved without notification



Aqueon® Flat Mono

POWER SUPPLIES, MOUNTINGS & EXTRUSIONS



Project

Date

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

20W-60W Dimmable Driver



75W-300W Dimmable Driver



ENCLOSURES

Part #	Ingress	Dimensions (inches / mm)	Description
045008	IP67	9.4 x 2.6 x 1.9 / 239 x 66 x 48	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

DMX512 SPI Converter Decoder



DMX CONTROLLER

Part #	Description
011343	100W Digital Controller
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011420	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

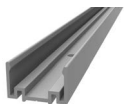
LT-200 SPI Controller



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

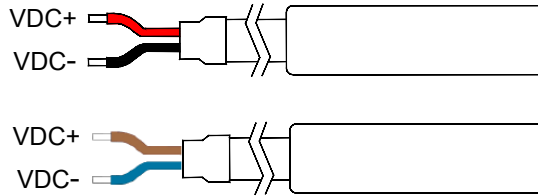
Specifications may be modified or improved without notification



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 starter cable (20 AWG) has a cable length of 16ft(4.88m).

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	LED Strip	Max. Cable Length
		24V
20 AWG x 2	3.28 ft / 1m	303 ft / 92.35m
	16.4 ft / 5m	57 ft / 17.37m
	32.8 ft / 10m	36 ft / 10.98m
	49.2 ft / 15m	20 ft / 6.1m
	65.6 ft / 20m	16 ft / 4.9m
18 AWG x 2	3.28 ft / 1m	457 ft / 139.3m
	16.4 ft / 5m	86 ft / 26.21m
	32.8 ft / 10m	56 ft / 17.07m
	49.2 ft / 15m	35 ft / 10.67m
	65.6 ft / 20m	25 ft / 7.62m
16 AWG x 2	3.28 ft / 1m	914 ft / 278.6m
	16.4 ft / 5m	172 ft / 52.43m
	32.8 ft / 10m	90 ft / 27.43m
	49.2 ft / 15m	60 ft / 18.3m
	65.6 ft / 20m	40 ft / 12.2m
14 AWG x 2	3.28 ft / 1m	1521 ft / 463.6m
	16.4 ft / 5m	287 ft / 87.5m
	32.8 ft / 10m	140 ft / 42.67m
	49.2 ft / 15m	96 ft / 29.26m
	65.6 ft / 20m	70 ft / 21.34m