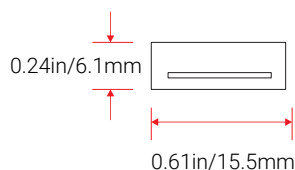


Aqueon® Flat Tunable White

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 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 85.

FEATURES

- Wet Location; UL Listed, 1598
- Vertical Bending
- End to end continuous illumination
- Up to 49.2ft(15m) continuous runs
- Cuttable every 3.28"(83.3mm)
- Tunable White 2200K - 6500K
- 2"(50mm) minimum bending diameter
- 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
- 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 Tunable White							
051640	2200-6500K	>85	111	365	49.2ft 15m	1.83	6

High Power Aqueon® Flat Tunable White							
051640-12	2200-6500K	>85	223	730	49.2ft 15m	3.66	12

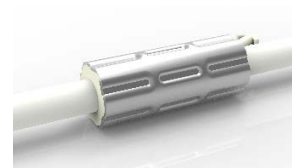
ORGANIC LIGHTING®

Project

Date

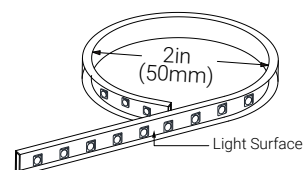
ANTI-WICKING

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

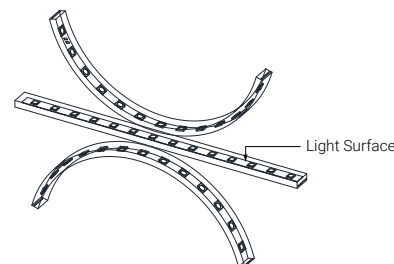


VERTICAL BENDING

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 | 04/2025 V4



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Aqueon® Flat Tunable White Standard & High Power



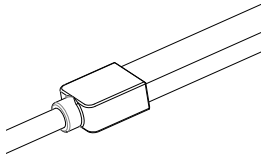
CONNECTORS & ACCESSORIES

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

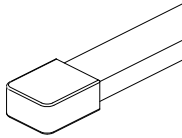
Project

Date

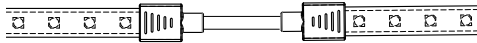
FACTORY INJECTION MOLDED IP67 CONNECTORS



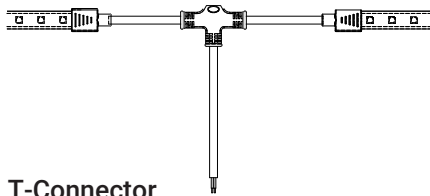
End Connector, 16'L (4.9m)
#051656-CU16



End Cap
#051686

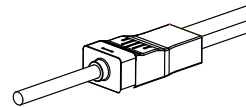


Extension
#051659

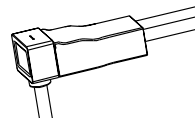


T-Connector
#051658

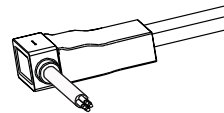
FIELD ASSEMBLY SNAP ON IP67 CONNECTORS



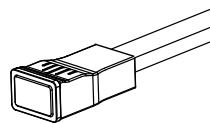
End Snap Connector, 16'L (4.9m)
#051656S-CU16



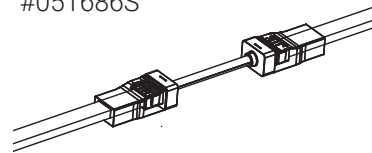
Bottom Snap Connector, 16'L (4.9m)
#051605S-CU16



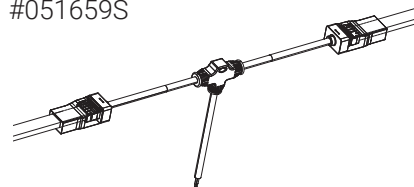
Side Snap Connector, 16'L (4.9m)
#051606S-CU16



Snap End Cap
#051686S



Snap Extension
#051659S



Snap T-Connector
#051658S

Specifications may be modified or improved without notification

Aqueon® Flat Tunable White 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
PC-JBOX	IP67	4.25 x 1.63 x 1.25 / 108 x 41 x 32	Waterproof J-Box

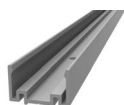
DMX CONTROLLER

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

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

Project

Date

20W-60W Dimmable Driver



75W-300W Dimmable Driver



DMX512 SPI Converter Decoder



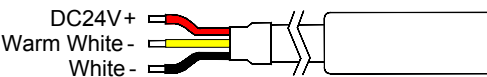
LT-200 SPI Controller



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 (18 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
		24 V
18 AWG	3.28 ft / 1m	463.5 ft / 141.3m
	16.4 ft / 5m	86.4 ft / 26.3m
	32.8 ft / 10m	34.9 ft / 10.6m
	49.2 ft / 15m	8.9 ft / 2.7m
16 AWG	3.28 ft / 1m	755.4 ft / 230.2m
	16.4 ft / 5m	140.8 ft / 42.9m
	32.8 ft / 10m	56.8 ft / 17.3m
	49.2 ft / 15m	14.5 ft / 4.4m
14 AWG	3.28 ft / 1m	1184.5 ft / 361m
	16.4 ft / 5m	220.8 ft / 67.3m
	32.8 ft / 10m	89.1 ft / 27.2m
	49.2 ft / 15m	22.7 ft / 6.9m