Wiring

To switch to the next function, simply power the lamp off and on again quickly.

Sequence	Output A3 Lamps
1	Edge Light
2	White light, ramping to full intensity
3	APELO 'Fish mode' Strobe, White LEDs
4	Blue Light, ramping to full intensity
5	APELO 'Fish mode' Strobe, Blue LEDs
6	Starts again at sequence 2

RGBW Lamps (PN 016.831-xxx)

To display the full spectrum of color, and color changing modes, an external RGBW controller is required.
If an RGBW controller is not available, or is not required, an Apelo RGBW lamp may be directly connected to provide multi color output.

Wiring to a Generic RGBW Controller

Most common RGBW controllers use a permanent positive feed and a wire for of the individual color channels. Color blending is done by switching the relevant color channel(s) to the negative/ground source via varying levels of PWM, or (Pulse Width Modulation).
The APELO lamp uses an additional wire that needs to be permanently connected to Negative. APELO uses this wire to for the lamp current and bypass the controller from seeing the load. This means that there is no limit to the amount of APELO lamps that can be connected to the controller.
Hint - If your controller has only 4 cables, connect the extra lamp ground cable to the negative (-ve) terminal of the battery.

Lamp Wire	Function
Brown	Main Positive, Permanent
Black	Main Negative, Permanent
Red	Controls the Red – Signal to Ground via PWM
Green	Controls the Green – Signal to Ground via PWM
Blue	Controls the Blue – Signal to Ground via PWM
Yellow	Bonding Cable
White	Controls the White - Signal to Ground via PWM

Wiring without an RGBW controller

An APELO RGBW lamp will operate without an external RGBW controller. In this mode, the effect is 3 lamps in one. You may use any or all of the colors as you like, however each color requires a separate switch. You may mix colors to achieve an additional color if desired.

Lamp Wire	Brown	Black	Red	Green	Blue	White	Output Color
Config.1	Batt + VE	Batt - VE	-	-	-	-	Edge Light
Config.2	Batt + VE	Batt - VE	Batt - VE	-	-	-	RED
Config.3	Batt + VE	Batt - VE	-	Batt - VE	-	-	GREEN
Config.4	Batt + VE	Batt - VE	-	-	Batt - VE	-	BLUE
Config.5	Batt + VE	Batt - VE	Batt - VE	Batt - VE	-	-	YELLOW
Config.6	Batt + VE	Batt - VE	-	Batt - VE	Batt - VE	-	CYAN
Config.7	Batt + VE	Batt - VE	Batt - VE	-	Batt - VE	-	MAGENTA
Config.8	Batt + VE	Batt - VE	-	-	-	Batt - VE	WHITE

Electromagnetic Compatibility (EMC)

This LED lamp is an electronic device. The electrical circuits contain components that suppress possible interference, both emission as well as susceptibility, to the limits prescribed in international regulations.