



The Vivid Pool Retro Plug Kit is a great option for circumstances where pulling a cable may be difficult or impossible. It is critical, however, to ensure that the existing cable can supply the current necessary to operate the light properly today, and for years to come.

The instructions below describe how to test the resistance of the existing cable. There are multiple ways to test a cable, but the technique described here allows for minimal commitment to the project prior to deciding on the best product for the application.

Okay, Let's Get Started



Tools Needed

- Multimeters
- Wire strippers



It is imperative that the proper tool is used to test the cable resistance due to the high conductivity of stranded copper wire. It has very little resistance by nature. Use a multimeter or millivolt meter capable of testing to 1/100th Ohms to accurately test the cable.

Follow these steps to test the cable:

- 1 Turn off the power to the existing switch or relay.
- 2 Disconnect the cable from the switch or relay.
- 3 Remove the existing light from its niche and cut the cable at the back of the housing.
- 4 Set your multimeter or milliohm meter to test for resistance. Zero out the device and set to the highest sensitivity.
- 5 Be sure to test the entire length of the run from the pool end all the way to where it will connect to the transformer.
- 6 Strip approximately 1/2" of the outer insulation on the cable, and then approximately 1/4" of the inner insulation exposing the copper strands.
- 7 At one end of the cable tie two of the wires together with a wire nut.
- 8 At the other end of the cable connect the alligator clips on the milliohm meter to the same two wires you connected at the other end.
- 9 Record the results and refer to the table.
- 10 Most existing cables will have three conductors (hot, neutral, and ground). It is acceptable to use any two of the three for our low voltage light, so test all three combinations to find the pair that have the least resistance.



VIVID 360 NICHELESS RETRO LIGHT

Model#	Color	Wattage	Maximum Cable Resistance @12V (Existing Cable)	Plug Kit
300071-WT	White	11 watts	2.1 OHM	300000
300076-WW	Warm White	11 watts	2.1 OHM	300000
300070-BL	Blue	11 watts	2.1 OHM	300000
300077-T	Turtle(Amber)	11 watts	2.1 OHM	300000
300073-P	Pentair	18 watts	1.3 OHM	300000
300074-J	Jandy/Wall Switch	15 watts	1.6 OHM	300000
300075-H	Hayward	19 watts	1.2 OHM	300000

VIVID 360 SPA RETRO LIGHT

Model#	Color	Wattage	Maximum Cable Resistance @12V (Existing Cable)	Plug Kit
VLS4004-WT	White	25 watts	1.0 OHM	400001
VLS4014-WW	Warm White	25 watts	1.0 OHM	400001
VLS4008-BL	Blue	25 watts	1.0 OHM	400001
	Turtle(Amber)	13 watts	1.8 OHM	400001
VLS4000-P	Pentair	25 watts	1.0 OHM	400001
VLS4000-J	Jandy/Wall Switch	21 watts	1.1 OHM	400001
VLS4000-H	Hayward	16 watts	1.5 OHM	400001

VIVID 360 POOL RETRO LIGHT

Model#	Color	Wattage	Maximum Cable Resistance @12V (Existing Cable)	Plug Kit
VLP2004-WT	White	30 watts	0.8 OHM	400001
VLP2014-WW	Warm White	30 watts	0.8 OHM	400001
VLP1004-BL	Blue	30 watts	0.8 OHM	400001
	Turtle(Amber)	22 watts	1.0 OHM	400001
VLP3030-P	Pentair	28 watts	0.8 OHM	400001
VLP3030-J	Jandy/Wall Switch	20 watts	1.2 OHM	400001
VLP3030-H	Hayward	28 watts	0.8 OHM	400001