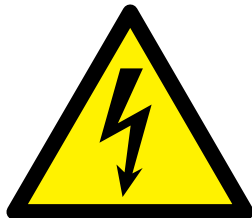


# RETRO INSTALLATION INSTRUCTIONS

## LIGHT INSTALLATION WITH NEW CABLE



**Step 1:** Confirm that power has been turned off to the existing underwater light that is being replaced.

**If you cannot be sure that power has been disconnected, then DO NOT CONTINUE WITH THE INSTALLATION.**

**If you are not pulling a new cable through, and instead are using the Blue Square patented Plug Kit to attach to the existing cable, then follow the instructions contained with the Plug Kit.**

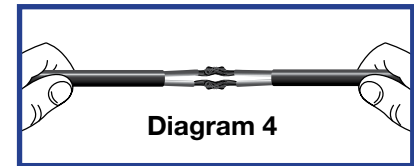
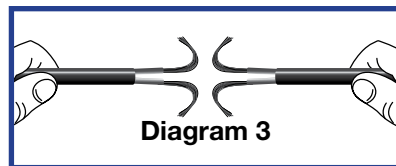
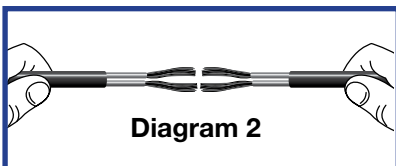


**Diag 1.** Existing 1½" female thread in pool wall, cable extended to deck.

**Step 2:** Locate the connection point of the existing pool light cable, which is likely to be at a Junction Box or at a Transformer. Disconnect the existing pool light cable from the Junction Box or Transformer and attach a draw wire to the existing cable.

**Step 3:** Unscrew the existing underwater light and disengage it from the pool wall. Float the light to pool deck and cut the existing pool light cable close to the rear of the existing pool light.

**Step 4:** You will need to use the existing pool light cable as a draw wire to pull through the cable on the Spectrum LED 360 Nicheless Light. Refer to Diagrams 2-4. Remove 3" of outer cable sheath on both the existing and new pool light cables. Expose a 2" length of copper conductor, and twist together tightly. Form loops in the copper conductors and join and twist together with loops on the new cable. It is important to then twist firmly to create a firm join. Cover the join with duct tape.

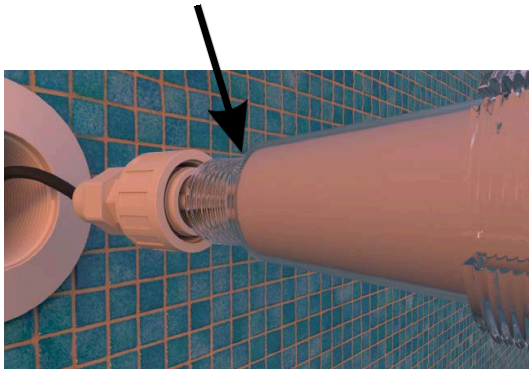


18AWG Cable is supplied with the patented Plug Kit factory-fitted to the end, with a Protective Cap also fitted.

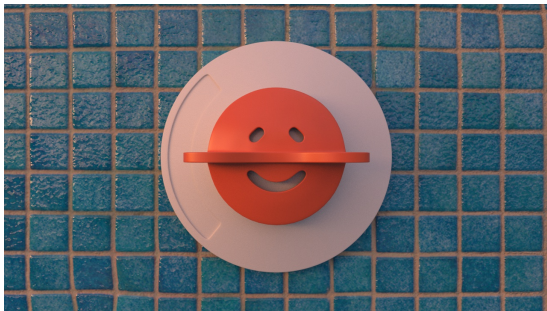


Cable Nut and Clamp have been factory tensioned to comply with UL requirements. **Do not adjust.**

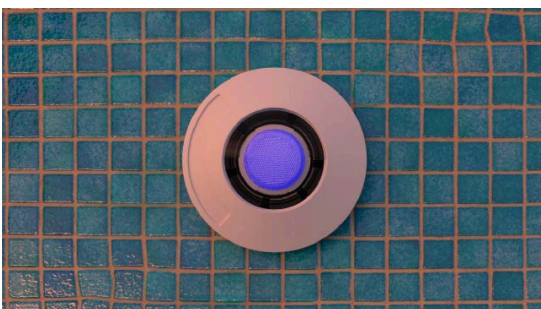
**Diag 5.** Plug Kit is pushed into rear of light and secured by tightening the Connector Nut.



Diag. 6



Diag. 7



**Step 5:** Pull the existing cable from the Junction Box or Transformer end, so that the Spectrum LED 360 Nicheless Light Cable is pulled through. Leave sufficient cable up on the pool deck. Do not re-connect the cable to the junction box or transformer just yet.

**Step 6:** Unscrew the Protective Cap from the end of the cable (do not discard – keep for possible future use). The two O-rings on the Plug Kit are factory-lubricated, ensure they are free from dust and grit. If needed, wipe clean and re-apply a small amount of silicone-based o-ring lubricant. Align the Plug Kit with the exposed silver connector pins on the rear of the new light and push into place. Whilst holding the plug kit in place, tighten the Connector Nut by hand until firmly tight, see Diag. 5.

**Step 7:** Place the pool light in the pool. Go back to where the new cable has been pulled through, cut excess cable and connect up to the transformer or junction box in the same manner as the old light was previously wired.

(Note: If conditions suit, leave a service loop of cable 6ft long which will aid any future servicing.) Pull the cable tight – so that the pool light is drawn in close to the 1" female thread in pool wall.

**Step 8:** Back at the pool, using the orange tool provided, screw the new Spectrum 360 Nicheless Pool Light into the female thread until secure. See Diag. 6. Installation is now complete. Finished installation is shown in Diag. 7.

Spectrum 360 Nicheless  
Operating Voltage:

12v AC

Spectrum 360 Nicheless  
Power Consumption:

White or Blue **12 watts**  
Multi-color **13 watts max.**

For supply connection, use only an isolating low voltage power supply with ungrounded output, evaluated for swimming pool use.

## WARNING

Never stare directly at LED Pool Lights. Prolonged direct exposure can cause eye damage.