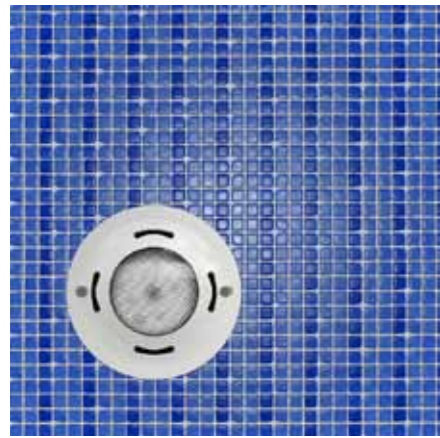
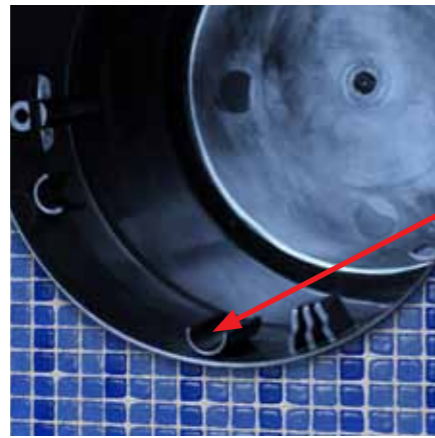


**INSTALLATION INSTRUCTIONS – continued**



Evo2 Plug Kit then connects to the Evo2 Light. The Light is then mounted into niche using two original screws.

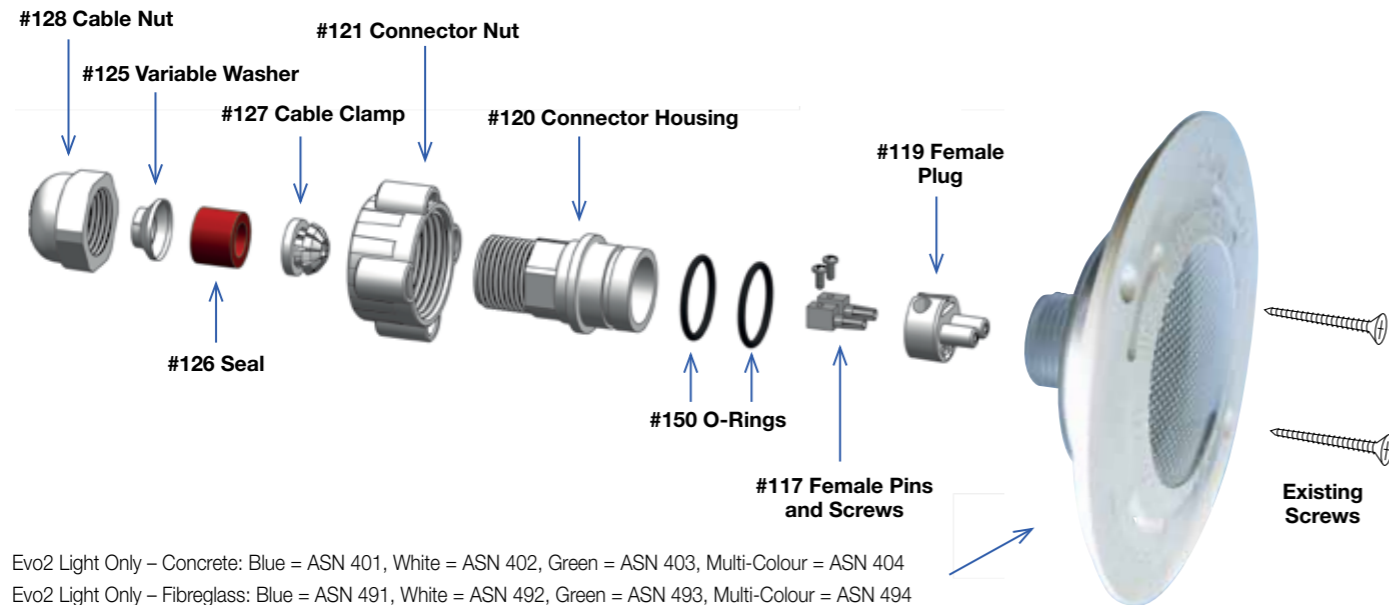


Locating Lug

The locating lug on the LI-WN909 Mounting Ring pushes the new light forward so it sits 3mm off the pool wall. Use pliers or sidecutters to remove at least 3mm off the front of the locating lug.

Please note: the latest Spa Electrics Mounting Ring (P/N: LI-WN909) needs a minor modification in order to allow the new light to sit flush.

**Evo2 LED Pool Light - Parts Diagram**



Evo2 Light Only – Concrete: Blue = ASN 401, White = ASN 402, Green = ASN 403, Multi-Colour = ASN 404  
 Evo2 Light Only – Fibreglass: Blue = ASN 491, White = ASN 492, Green = ASN 493, Multi-Colour = ASN 494

**TECHNICAL SPECIFICATIONS EVO2 LED FLUSH MOUNTED POOL LIGHTS**

Features:	Operated by extremely safe extra low voltage supply (12V AC), low power consumption, long life span, easy installation and operation
Nominal Supply Voltage:	12V AC 50/60 Hz
Voltage Tolerance:	+20%, -20%
Protection Rating:	IPX8 (to 2.0m depth)
Temperature Range:	-10°C ~ +40°C water temperature
Power Consumption:	White, blue and green = 8 VA
Power Consumption:	Spectrum III Multi Colour = 16 VA maximum
Lamp Life:	>50,000 hours
Light Output (typical):	White-550 lumens, blue-180 lumens, green-500 Lumens
Fault Protection:	Power-cycle "run dry" thermal cut-out. Voltage transient clamping.



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**INSTALLATION INSTRUCTIONS**

**INSTALLER – READ ENTIRE INSTRUCTION SHEET BEFORE PROCEEDING TO INSTALL.**

**POOL OWNER – PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

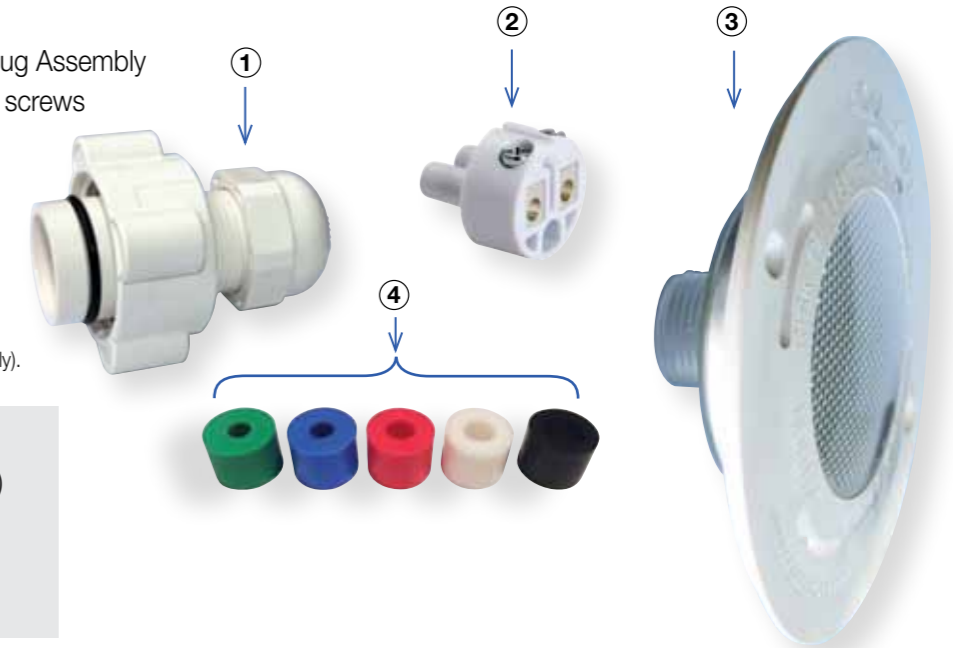
**This Aqua-Star Evo2 LED Replacement Light Kit is designed as an upgrade from existing Spa Electrics Wet Niche WN250, WN550, WN850 and WN950 recessed pool lights**

**INCLUDED IN THIS KIT**

**Included in this kit:**

- ① Pre-Assembled Quick-Connect Plug Assembly
- ② Female Screw Plug Terminal, with screws
- ③ Evo2 LED Pool Light
- ④ Spare Seals:  
 Green  
 Blue  
 Red  
 Black  
 White

(White seal is already fitted to the QC Plug Assembly).



**The tools you will need:**

- Phillips Head Screwdriver (small #1)
- Pliers or Sidecutters
- Wire-Stripping tool
- Multi-Grips or Shifting Spanner

**Installation Instructions:**

The original Spa Electrics WN Series Light is affixed to the pool wall with 2 screws.

Unscrew the light from the pool wall, keep screws for later use. Float the light to the pool deck.



**INSTALLATION INSTRUCTIONS – continued**

Cut the existing cable, preserving as much of the cable length as possible. The Quick-Connect Plug Kit is supplied pre-assembled with a WHITE cable seal. Replace it (if required) with the correct cable seal after referring to Table 1 below.

**TABLE 1**

Seal Colour	Seal Hole Diameter	Suits Cable Gauge	Suits Cable Outside Diameter	WIRE TERMINATION
GREEN	4.8mm	0.5mm <sup>2</sup>	4.5mm ~ 5.3mm	SEE A BELOW
BLUE	5.5mm	0.75mm <sup>2</sup>	5.5mm ~ 6mm	
RED	6.5mm	1.0mm <sup>2</sup>	6.3mm ~ 7mm	
WHITE	7.2mm	1.5mm <sup>2</sup>	7.1mm ~ 7.8mm	SEE B BELOW
BLACK	9.1mm	2.5mm <sup>2</sup> ~ 4.0mm <sup>2</sup>	8.5mm ~ 9.4mm	

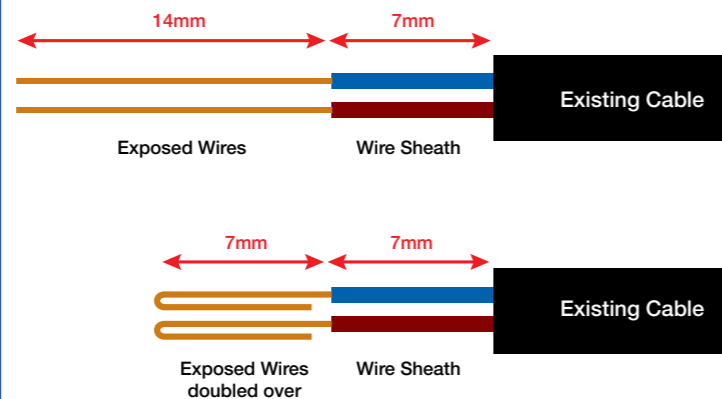
Depending on the thickness of the existing cable, choose a cable seal from Table 1.

As a guide, use the seal that fits firmly over the cable.

**Wire Termination:**

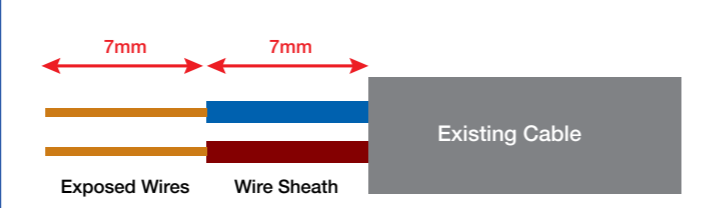
**Method A:** When using Green, Blue or Red Cable Seal (thinner cable)

- Remove 21mm of outer cable sheath.
- Expose 14mm of copper wire, leaving 7mm of insulated wire sheath remaining.
- Bend copper wire back on itself, doubling up so it is 7mm long.



**Method B:** When using White or Black Cable Seal (thicker cable)

- Remove 14mm of outer cable sheath.
- Expose 7mm of copper wire leaving 7mm of insulated wire sheath remaining.



**CONNECTING PLUG KIT ASSEMBLY TO EXISTING CABLE**

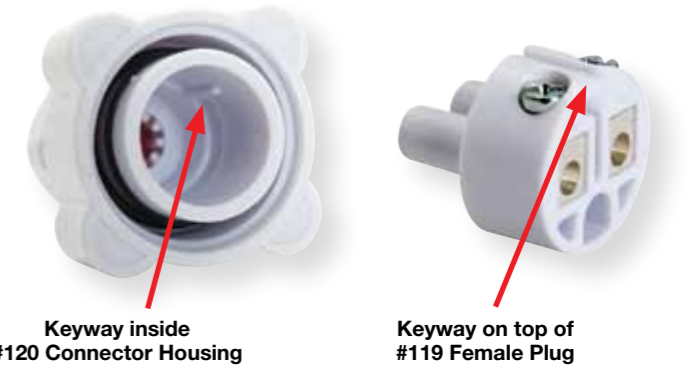
**1.** After fitting the correct cable seal to the plug kit and terminating the wires, slide cable into rear of preassembled Quick-Connect Plug Assembly so that the cable end sits approx 100mm from end of plug. You may have to loosen #128 Nut to enable cable to slide through.



**2.** Insert copper wires into terminals on #119 Female Plug and tighten screws all the way down (If not tightened correctly the plug will be difficult to fit into the #120 Connector Housing)



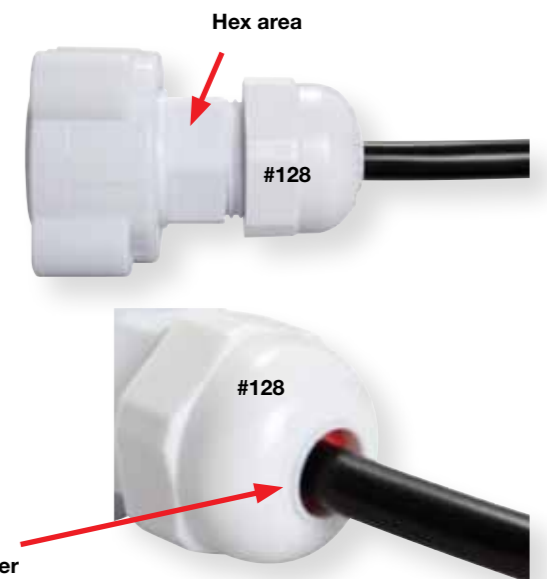
**3.** Slide #119 Female Plug into #120 Connector Housing, be sure to align the keyway on #119 Female Plug with keyway on the inside of the #120 Connector Housing.



**4.** Push #119 Female Plug all the way into #120 Connector Housing. Please ensure it pushes all the way into the “tongue and groove” keyway, so that the end of #119 Female Plug finishes flush with end of #120 Connector Housing.



**5.** Tighten #128 Cable Nut on the cable. This must be done tight enough to ensure the Quick-Connect Plug will not leak. You will need to hold the hexagonal area on the #120 Connector Housing with multi-grips or shifting spanner in order to tighten the #128 Cable Nut tightly.



Ensure that the #125 Washer remains “clipped in” the #128 Cable Nut when tightening. This will ensure the #126 Seal is compressed effectively.

**6.** Connect Plug Kit to rear of Evo2 Pool Light. Put a small amount of silicone-based lubricant onto the 2 x #150 O-rings and insert the Quick-Connect Plug into rear of light. When inserting Quick-Connect Plug be sure to align the #119 Female Plug with the two male pins on back of light. Hand tighten the #121 Connector Nut.

