



Bluefin Led Underwater lights.

P3 Installation manual.

Thank you for choosing Bluefin LED underwater lights, our products have been designed and tested rigorously to ensure optimum performance and longevity.

All Bluefin Led lights are water tested so please be aware there may be moisture present on the light.

If you have ordered the Aluminium (A) option please be aware that these have been **Hard PTFE Anodised** to form a corrosion resistant coating. Please take care not to damage this coating when installing the light.

Please ensure that your product is installed as per our instructions below, failure to do so may invalidate your warranty.

Specs: electrical/fuse ratings

	Voltage	Current	Fuse rating
Piranha P3	12v only	1.2 amp	3amp

Warnings:

- Do not attempt to install the lights whilst the boat is in the water.
- Ensure that the correct voltage is used for the light.
- Ensure that an in line fuse is installed with the correct fuse rating per the light installed.
- Ensure that use the Screws provided (**failure to do so will invalidate your warranty**).



- Ensure all connections are made water tight.
- Do not hold the light by the cable.
- Do not use abrasives on the lenses.
- Do not look directly into the light at close proximity

Tools required for installation:

- 2.5mm(3/32") drill bit
- 13mm(1/2") drill bit
- Drill
- Posi head hand screwdriver
- Marine sealant 3M 4200 or equivalent

Installation:

For optimum affect effect the light should be positioned between 8-12" (200-300mm) below the water line and at a 90 deg angle. Recommended spacing from 1-8"(0.5mtr) to 3-11" (1.2mtrs) between the lights.

Drill a 13mm (1/2") hole for the cable access through the hull, ensuring that there are no obstructions internally in the hull.

Drill 2.5mm (3/32") pilot holes to match the mounting holes on the light. (Within the packaging there is a mounting template for drilling these holes)

Key the area to where the light is to be mounted with abrasive sand paper to ensure there is a clean area for the marine sealant to bond to.

Apply marine sealant to the rear of the light on the circumference of the light and around the base of the cable gland to ensure a complete continuous bead of sealant is applied in both areas. (see fig 1)

Feed the cable through the hole and mount the light to the hull using the **screws provided**.

Wipe off any excess sealant and ensure the light is seated correctly without any gaps in the sealant. (It is good practice to have excess marine sealant to clean off as this will help assure a water tight seal to the hull)

Electrical connection:

Only attach the light cable to a waterproof connection or junction box, the cable must have a watertight connection otherwise your **warranty will be void**.

Care should be taken when planning your electrical feeds/cables to the lights so as to ensure voltage drop between the batteries or power supply is minimised, on 12V systems this is especially important as the lower system voltage means a high current requirement which in turn means the potential for more voltage drop in the cable runs & connections.

If the cable gauge & connections are not sufficient for the lighting load attached you may experience incorrect operation of the lights & intermittent illumination as the supply dips below specification.

Please see the wire gauge guide attached to the instruction manual.

For help with calculations always consult with a qualified professional or contact Bluefin LED directly.

Attach the light cable to the VDC power on the boat ensuring that you use the in line fuse supplied connected to the positive(red) wire, ensure that you use the heat shrink provided to create a water tight fit into the fuse holder. (see fig 2)

Fig 1(P3)

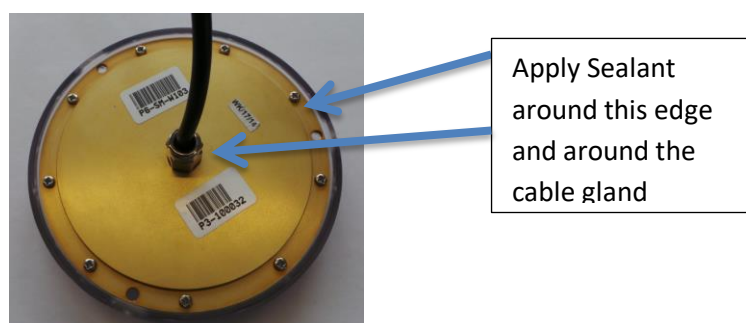
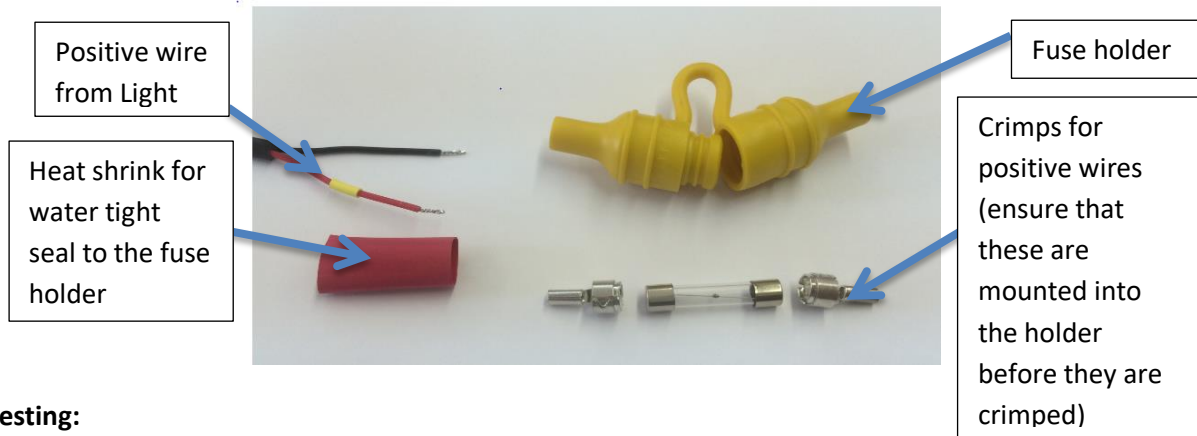


Fig 2



Testing:

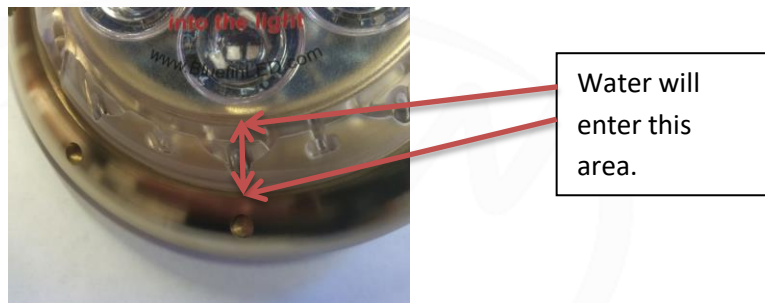
Test the light before installation ensuring that you use the correct voltage and the light is illuminated correctly.

After installation ensure again that the light is illuminated correctly before the boat goes back into the water and the lens label is removed.

After you boat goes back into the water check internally for water ingress around where the light is installed.

Note: The light is designed to allow water into the outer cavity to assist cooling (Fig 3 below), this is a design feature and water will not pass this area into the light.

Fig 3



Maintenance:

Regularly check the installation for water ingress.

Only clean the light with a soft bristle brush.

Warranty:

Your product has a 2 year limited warranty for defects.

For any warranty issues please contact your point of sale retailer or go to www.bluefinled.com for further advice.

Installer please ensure that the SERIAL NUMBERS of the lights are written below and the manual is handed over to the end user.

Please make a note of the serial numbers of the lights here.

SERIAL NUMBERS

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Piranha Gel Connector Instruction Manual.

Thank you for choosing Bluefin LED underwater lights, our products have been designed and tested rigorously to ensure the optimum performance and longevity.

Please ensure that your product is installed as per our instructions below, failure to do so **WILL INVALIDATE YOUR WARRANTY.**

Use these instructions in conjunction with the light instructions to ensure that all is fitted correctly.

Warnings:

- Do not attempt to install the lights whilst the boat is in the water.

Installation:

Fig 1 showing how the Gel connector is wired up. Please use the instructions supplied with the Gel Connector kit.

Fig 2 showing how the finished Gel connector should look when finished.

The IP68 GEL CONNECTOR MUST BE INSTALLED OR YOU WARRANTY WILL BE VOID.

Fig 1

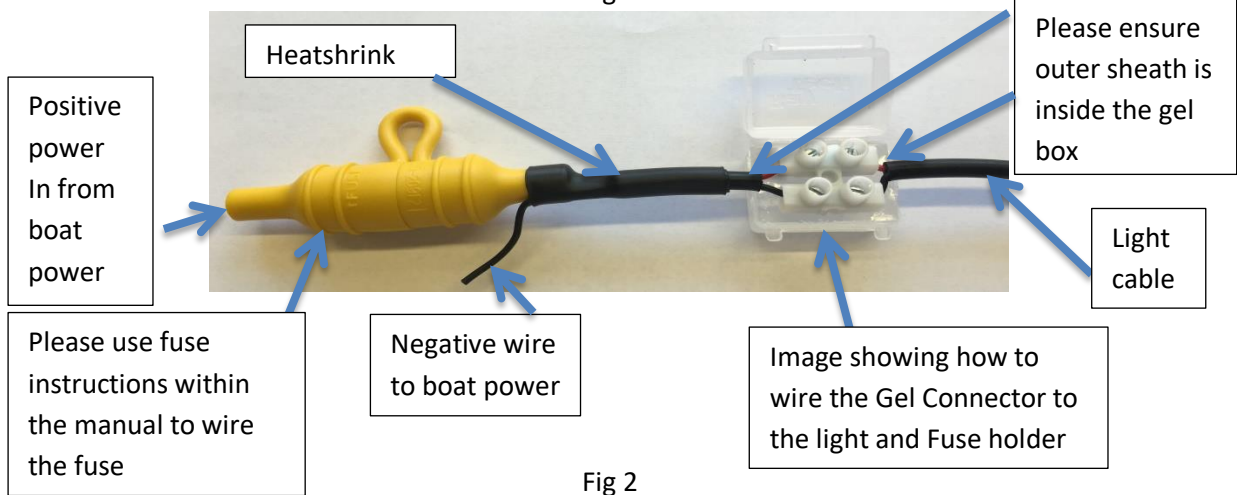


Fig 2



Bluefin LED

Cottage Farm, Cottage Lane,
Norton Juxta Twycross, Atherstone. CV9 3QH

Sales - Tel: 07950 909048

Service - Tel: 01827 880450

Administration - Tel: 01827 880450

Registered Address: Square Rig Limited, t/a Bluefin Led, Cottage Farm, Cottage Lane, Norton Juxta Twycross, Atherstone, CV9 3QH
Company Registration Number: 08871451 VAT Number: 179 2690 64

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		Wire Gauge selection guide using information from ABYC E-11 & US Coast Guard guidelines for marine electrical installations									
Circuit Type		Current flow in Amps									
10% V Drop Low-Power Non Critical (P series Single colour)	3% V Drop High-Power/Critical (H, S & GW Plus colour change Series)	5A	10A	15A	20A	25A	30A	40A	50A	60A	
20ft	6m	16 AWG	16AWG	14AWG	14AWG	12AWG	10AWG	10AWG	8AWG	6AWG	6AWG
30ft	9m	10ft	14AWG	12AWG	12AWG	10AWG	10AWG	8AWG	6AWG	16mm CSA	6AWG
50ft	15m	15ft	12AWG	10AWG	10AWG	10AWG	10mm CSA	8AWG	6AWG	25mm CSA	4AWG
65ft	20m	20ft	10AWG	8AWG	8AWG	8AWG	8AWG	6AWG	4AWG	25mm CSA	4AWG
80ft	24m	25ft	8AWG	6AWG	6AWG	6AWG	6AWG	4AWG	4AWG	40mm CSA	2AWG
100ft	30m	30ft	6AWG	4AWG	4AWG	4AWG	4AWG	2AWG	2AWG	40mm CSA	2AWG
130ft	40m	40ft	4AWG	2AWG	2AWG	2AWG	2AWG	1AWG	1AWG	70mm CSA	1AWG
165ft	50m	50ft	2AWG	1AWG	1AWG	1AWG	1AWG	1AWG	1AWG	70mm CSA	1AWG
200ft	61m	60ft	1AWG	1AWG	1AWG	1AWG	1AWG	1AWG	1AWG	70mm CSA	1AWG
		70ft	21m	21m	21m	21m	21m	21m	21m	21m	21m
		80ft	24m	24m	24m	24m	24m	24m	24m	24m	24m
		90ft	27m	27m	27m	27m	27m	27m	27m	27m	27m
		100ft	30m	30m	30m	30m	30m	30m	30m	30m	30m
		110ft	34m	34m	34m	34m	34m	34m	34m	34m	34m
		120ft	37m	37m	37m	37m	37m	37m	37m	37m	37m
		130ft	40m	40m	40m	40m	40m	40m	40m	40m	40m

To use for BluefinLED underwater lights select the appropriate current Column for you lights, power & quantity from the top row.

then the cable distance run in one direction i.e. from panel or batteries to the light placement or group.

Then at the point the Column & row crosses read the cable suggestion in US or EU gauge s for your installation.

Failure to install the correct power feeds may invalidate your warranty, if in doubt please consult with BluefinLED or a qualified professional.