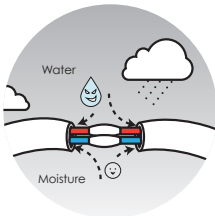


Guide to outdoor lighting conductor termination

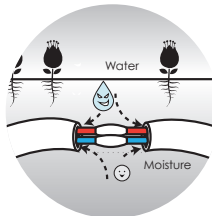
The following guide addresses a common water ingress fault, where moisture and air enters through the cable structure with IP65/IP66/IP67/IP68 lighting products.

So what is the problem?

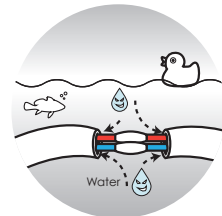
Well it is all in the science. When a luminaire operates, the inside temperature increases and when it is turned off, the temperature naturally returns to its original static position. This process in turn creates thermal expansion and contraction, resulting in a difference between the inside and outside air pressure of the product. Thus creating a siphon effect, resulting in moisture and air infiltrating the luminaire housing, commonly through the cable structure when the internal air pressure is lower than the external environment.



Exposed open Air

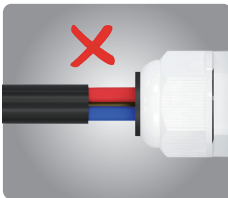


Underground



Underwater

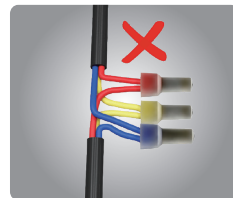
Common examples of **incorrect** terminations



single insulation exposed



using water-proof tape



terminations exposed

What is the solution? easy, use a water-proof connector, which maintains the products **designated IP rating** as follows.



Plug and play inline



Plug & play boxes



Multi port boxes

For safety, all electrical work should be conducted by an authorised electrical installer.