

Appliance classes (also known as protection classes) relate to the measures in place to prevent dangerous contact voltages from an electronic device.

Class 1: Earthed. The electrical product is not only insulated, but the casing and other conductive parts are connected to a protective earth conductor.

Class 2: Double Insulated. The electrical product's basic insulation is supplemented with either a reinforced protective insulation, or at least 2 layers of insulating material between the live parts and the user. Therefore an Earthing connection is not needed.

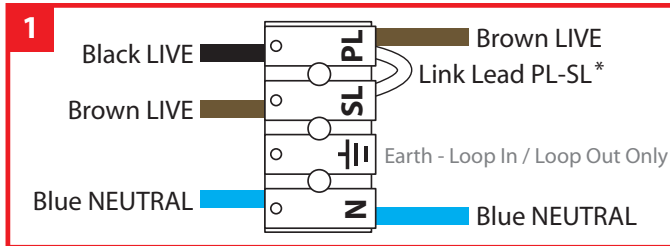
Class 3: Separated Extra-Low Voltage (SELV). Where the voltage is low enough that a user is not at risk of electrical shock (under normal conditions).



MAINTAINED EMERGENCY WIRING

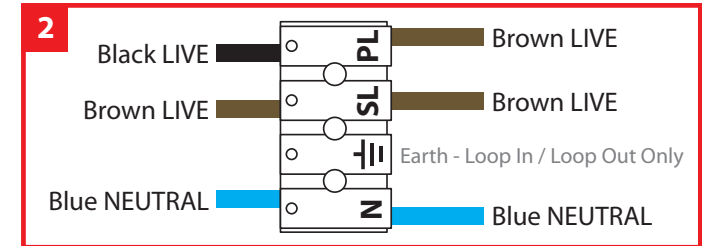
Option 1 - with link lead:

Does NOT charge emergency battery until it is switched on at the socket



Option 2 - 2 x brown LIVE cables:

As this product is always "on/live" the emergency battery is always charging



*It is possible to convert a Maintained fitting into a Non-Maintained fitting - just remove the SL cable.

PL - Permanent Live

The PL wire keeps the emergency battery connected to the mains at all times. If there is a mains power failure, the inverter in the product swaps the power feed from mains to the emergency battery.

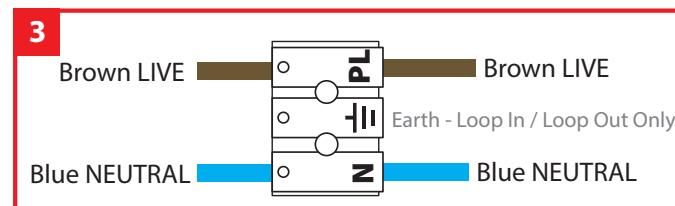
SL - Switched Live

When the SL wire is connected, the product stays at full illumination while the "wall switch" (for example) is switched on. When the "wall switch" is turned off, the whole fitting is turned off, but the emergency mode is "on" in the background in the event of a mains power failure.

The Link Lead - Between SL and PL

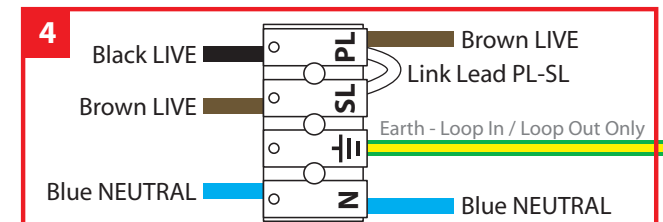
Option 1 will permit a maintained emergency operation, but option 2 is preferable to ensure an uninterrupted battery charge.

NON-MAINTAINED ONLY LIGHTS IN EMERGENCY MODE



Non-maintained products will only ever use the PL & N terminals.

LOOP IN / LOOP OUT MAINTAINED OR NON-MAINTAINED



A double insulated product will only need the Earth wire if connecting to an Earthed terminal in the same lighting circuit. (This is called "loop in / loop out").