

CABLE SPECIFICATIONS

OVERVIEW

- Low voltage lighting systems require a specific amount of power (voltage) in order to function correctly. Being low voltage, it is important to understand that cable length and gauge (thickness of copper) will play a major role in ensuring the correct voltage reaches the light. Incorrect cable gauge and length can cause multiple problems with low voltage lighting systems; from lights receiving too much voltage and failing prematurely, to not receiving enough voltage and failing to operate completely.

With this in mind, Spa Electrics has developed this guide to assist you in choosing the correct cable for your application, as well as highlighting a few points which can help to achieve the most out of your lighting systems.

LIGHT INFORMATION

HALOGEN SERIES

- SUPPLIED CABLE LENGTH:**
18 METERS
- STANDARD CABLE GAUGE:**
2.5mm²
- MINIMUM CABLE LENGTH:**
10 METERS
- MAXIMUM CABLE LENGTH*:**
24 METERS @ 4mm²
(+SUPPLIED BY SPA ELECTRICS)
- EXTENDING CABLE**
25 - 35M = 6mm²
36 - 50M = 10mm²

CERAMIC LIGHT ENGINE

- SUPPLIED CABLE LENGTH:**
20 METERS
- STANDARD CABLE GAUGE:**
0.75mm²
- MINIMUM CABLE LENGTH:**
3 METERS
- MAXIMUM CABLE LENGTH*:**
50 METERS @ 2.5mm²
(+SUPPLIED BY SPA ELECTRICS)
- EXTENDING CABLE**
51 - 75M = 2.5mm²
76 - 100M = 4.0mm²

EM SERIES (CLE)

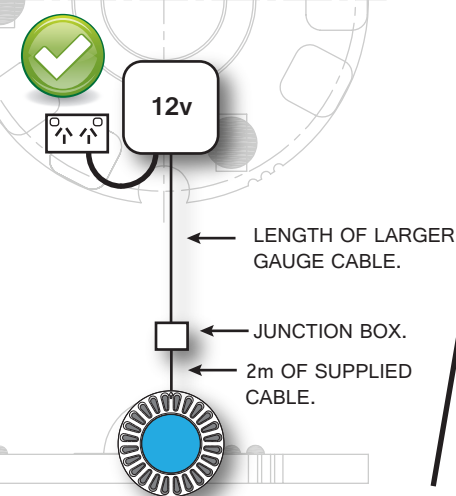
- SUPPLIED CABLE LENGTH:**
20 METERS
- STANDARD CABLE GAUGE:**
0.5mm²
- MINIMUM CABLE LENGTH:**
12 METERS (3M with EM-1 fitted)
- MAXIMUM CABLE LENGTH*:**
50 METERS @ 0.75mm²
(+SUPPLIED BY SPA ELECTRICS)
- EXTENDING CABLE**
51 - 90M = 1.5mm²

PLEASE NOTE:

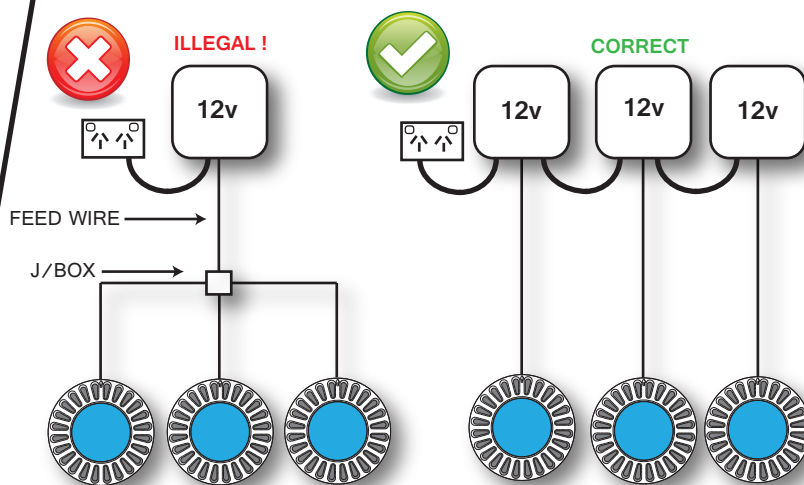
- * REDUCING CABLE LENGTH BELOW 10M ON HALOGEN LIGHTING MAY RESULT IN REDUCED GLOBE LIFE.
- * SPA ELECTRICS DOES NOT SUPPLY 6mm² OR 10mm² CABLES. - DUE TO THE COSTS INVOLVED, IT MAY BE MORE COST EFFECTIVE TO PURCHASE CERAMIC LIGHT ENGINE LIGHTING.
- * EM SERIES - REDUCING CABLE LENGTH BELOW 12M WILL CAUSE THE LIGHT TO DISPLAY HIGH CURRENT FAULT CODE. (FLASH 3 TIMES) PLEASE KEEP EM SERIES CABLE LENGTH ABOVE 12M OR INSTALL EM-1 RESISTOR BOX.

BASIC WIRING PRACTICES

EXTENDING CABLE



CONNECTING SWIMMING POOL / SPA LIGHTS (AS PER AS/NZS3000:2007)



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