VALO™

24V LED STRIP

Installation Instructions

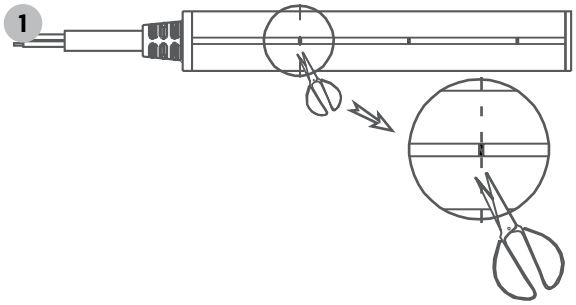
BY M-ELEC

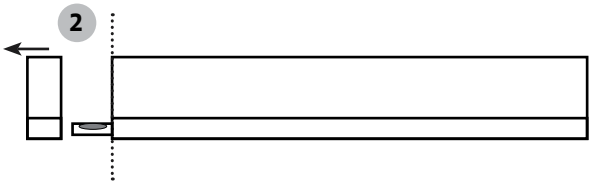
DIRECT SOLDER INSTALLATION INSTRUCTIONS

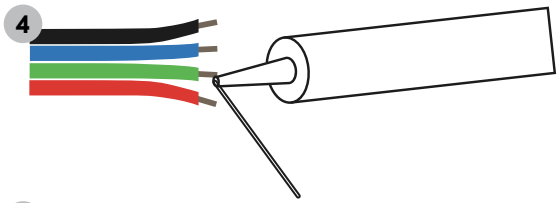
PLEASE NOTE: There are several ways to install and connect LED strip. We strongly suggest using the 'Direct solder' version whAenever possible for the best connection method and long-term reliability.

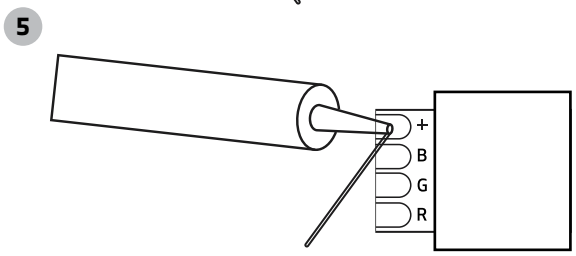
1. Measure the exact length required for your LED strip (please note any cuts necessary are only available on various lengths of the strip. Allow some space for this and your connection. Both items will take up space).
2. Measure and cut your LED strip on the appropriate cut locations (Pic 1). DO NOT cut on any other position or you will destroy components and the strip will not operate. Use scissors or a sharp, straight edged device. Do not use pliers or side cutters.
3. Cut off 1-3mm extra of the NEON strip sheath to expose the copper dots, bend the NEON strip if you need to expose more of the strip. (Pic 2, 3).
4. To prepare for soldering the tail/cable onto the strip secure it using a piece of masking tape to a suitable surface.
5. Pre-strip approximately 2-5mm your cable ends and twist them.
6. Tin your tail/cable in preparation for soldering directly onto the strip by putting a small amount of solder onto the end of your hot soldering iron and then touching the end of your cable ends. You should only have enough solder on the end of the cable to cover the strands, not large 'drips'. (Pic 4)
7. Tin the copper dots on the LED Strip by getting small amounts of solder on your hot solder iron tip and then touch the copper pad. Be sure not to apply so much that the solder is overlapping or bulged, this will cause problems on your strip and/or controllers. (Pic 5)
8. Ensuring you have the right colours to the right pads, hold each colour cable onto the pad and touch the soldering iron onto the cable/pad until the solder melts and bonds the pad to the cable. Do not over heat the strip by leaving the iron into place for long periods of time. Do not move either the strip or cable until the solder has cooled. (Pic 6)
9. Check the connections and ensure there is no overlapping or loose pieces of solder or cable. Also ensure that there are no dry/cold solder points which will cause arcing, high temperatures and cross connections. All joints should be strong, secure and clear from debris of any sort. If you are installing the strip into or onto any conductive material (such as M-Elec aluminium profiles) that any joints are protected or insulated.
10. Using either a 9V battery or a power supply, test the strip to ensure its fully operational on all colours. If multi-coloured we suggest only applying power to one colour at a time to ensure each cable does not power up a different colour or more then one colour at a time. Any variations to one colour, one cable are signs of cross connections.

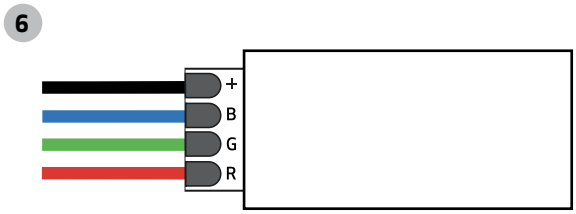
PLEASE NOTE: All strips can use these instructions no matter if they are multi-coloured or single







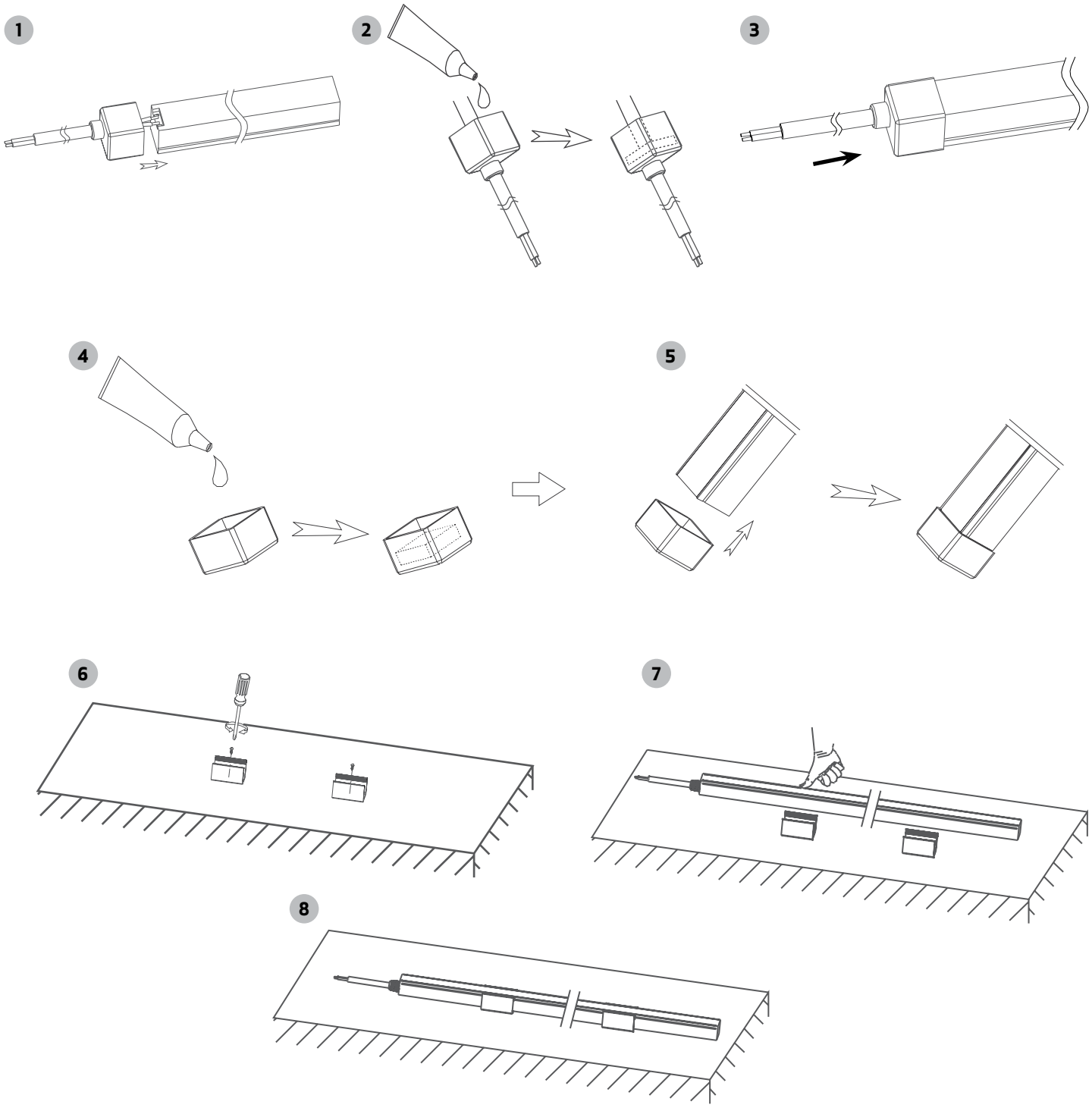




INSTALLATION INSTRUCTIONS

NEON STRIP INSTALLATION INSTRUCTIONS

1. After soldering or wire connection insert the end cap with the hole through the feed wire close to the exposed end of the NEON strip. (pic .1)
2. Before fully encasing the NEON strip, fill the end cap with a suitable sealant. (pic. 2)
3. After filling the end cap with the hole with the sealant, fully insert the end cap until it encapsulates the begininng of the NEON strip. (pic. 3)
4. To seal the exposed end of the NEON strip fill the closed end cap with a suitable sealant and insert it over the exposed end. (pic. 4, 5, 6)
5. Install the mounting clips where the NEON strip is to be installed (pic. 6)
6. Install the NEON strip into the clips (pics. 7, 8)



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Version 1