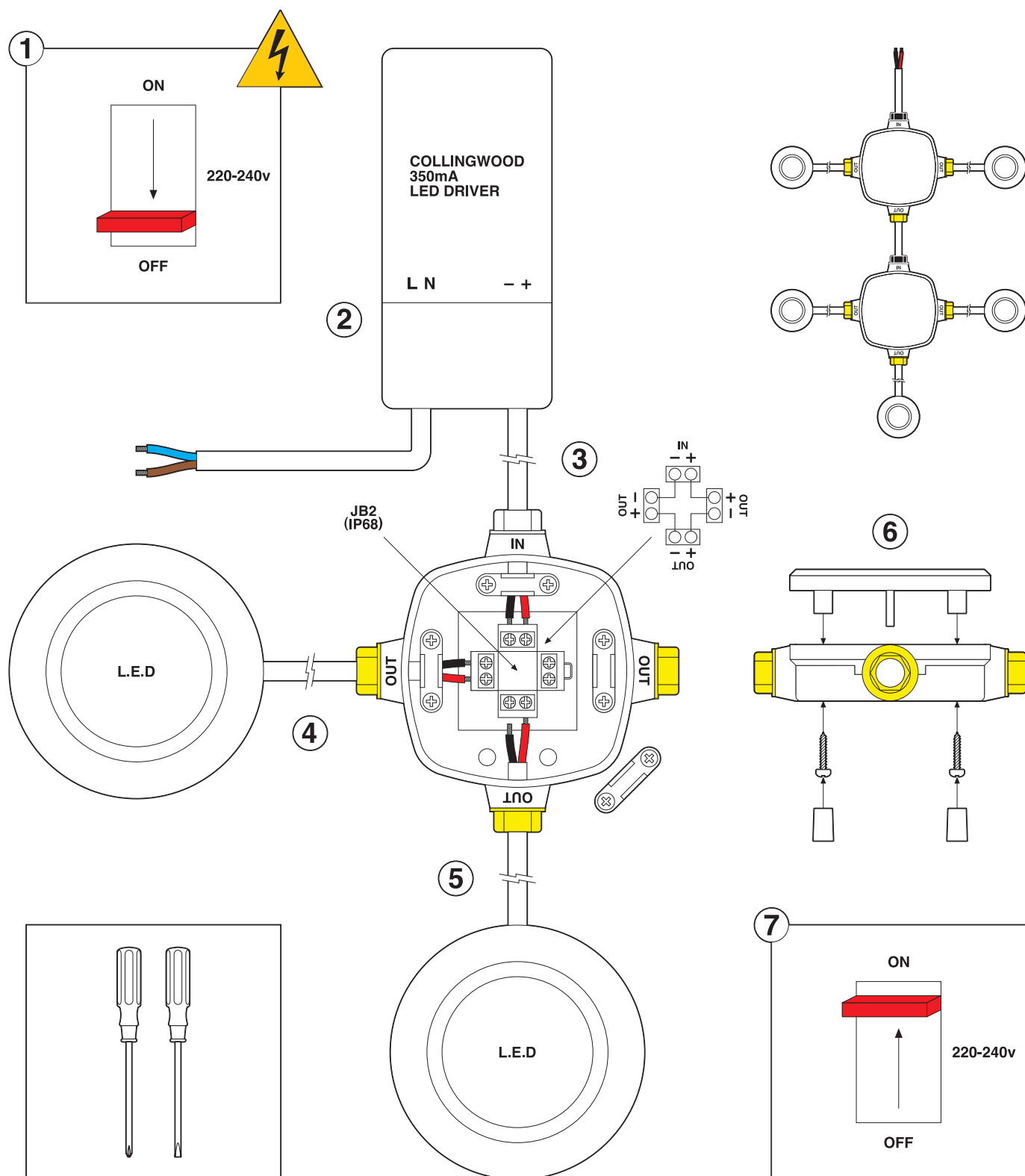


SERIES LED/JB2 (IP68) WIRING INSTRUCTIONS



JB2 JUNCTION BOX

INSTRUCTIONS

SPECIFICATION

- For low voltage connections only, maximum 48V.
- Waterproof. IP68 to a maximum depth of 2 metres
- To maintain IP rating use H05RN-F 2x0.75mm or 2x1.0mm cable for all connections.
- Suitable for series wiring only
- Maximum load 34W

DIAGRAM 1

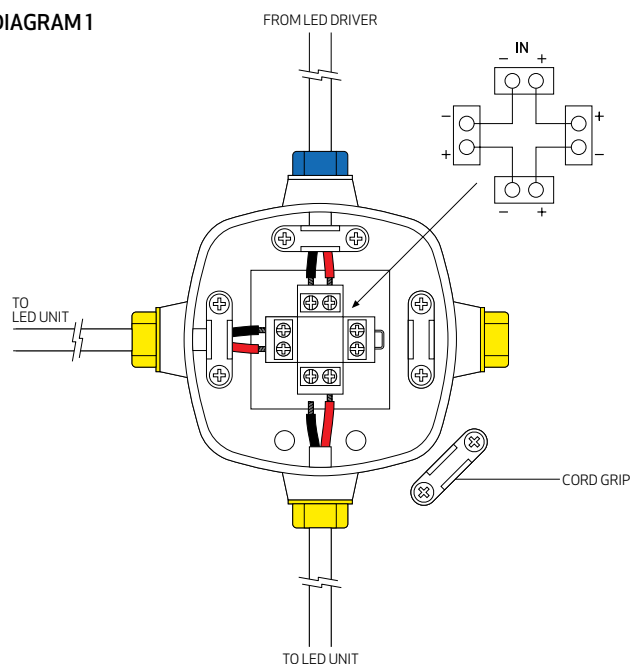
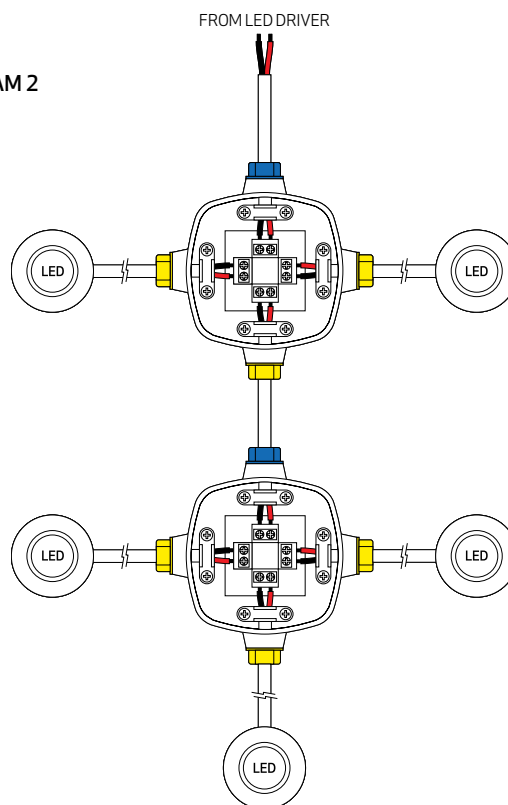


DIAGRAM 2



1. Isolate mains supply. Failure to do this could result in damage to the LED units.
2. Remove the cover from the JB2.
Note - (a) there is one input and three output positions.
(b) all +ve and -ve terminals are marked.
3. Remove the hollow blue nut and rubber grommet from the input position.
NOTE - The grommet has one smooth side and one recessed side.
4. Strip the outer cable from the LED driver by approximately 10 to 12mm and the inner wires by approximately 5mm.
5. Feed the hollow blue nut over the cable from the LED driver.
6. Pierce the grommet and feed it over the cable recessed side first.



7. Unscrew the cord grip screws at the input position, and remove the cord grip.
8. Feed the cable through the housing, connect the +ve wire from the driver to the +ve terminal, and the -ve wire to the -ve terminal.
9. Refit the cord grip and tighten the cord grip screws.
10. Push the grommet into the housing, ensuring it stays on the outer insulation of the cable.
11. Fit the hollow blue nut and tighten it firmly.
12. Connect the LED units to each output position by removing each hollow yellow nut in turn and following the same procedure described in steps 3 to 9 above.
NOTE - (a) if an output position is to be left unused, leave the hollow yellow nut and grommet undisturbed.
(b) a wire bridge is fitted across each of the output terminals. This bridge must be left in place for unused positions. The bridge is discarded when connecting an LED unit into the terminals.
13. Refit the JB2 cover and firmly tighten the screws.

CONNECTING MULTIPLE JB2'S

Any output position can be connected to the input position of another JB2. See diagram 2 above. An output from the second junction box can then be connected to the input of a third JB2 etc.

JB4

Assembly Instructions

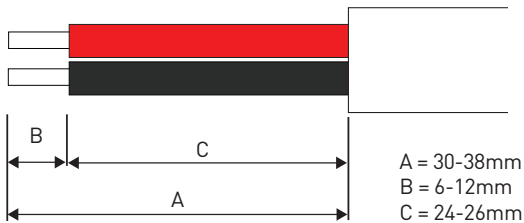
IP68 to a maximum depth of 1.3 metres.

Collingwood advise 0.75mm² round cable for this junction box. Minimum cable diameter is 6.5mm, maximum is 12mm.

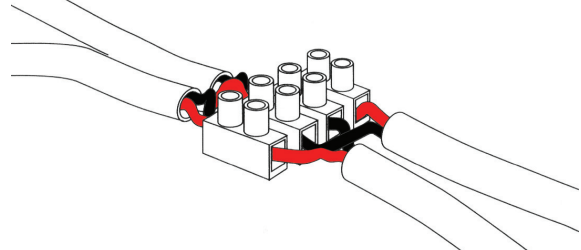
Collingwood WC275 cable is ideal. For any positions with cable diameter 9.5mm or more, do not use the reducing adaptors.

Terminal block is 4 x 1.5mm².

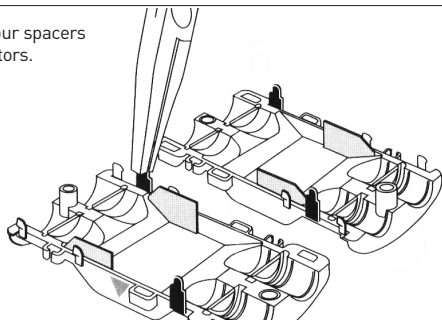
Ideal wire stripping



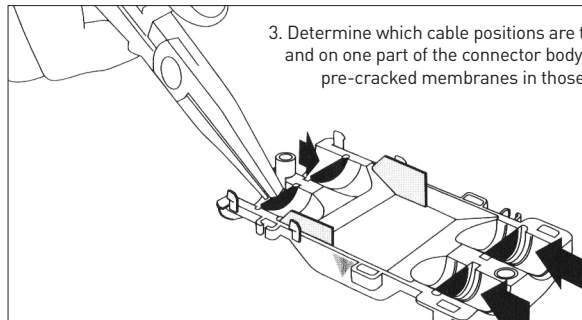
1. Refer overleaf to wiring instructions, and wire the first JB4 connector block.
NOTE- ensure any link leads are sufficiently long before starting.



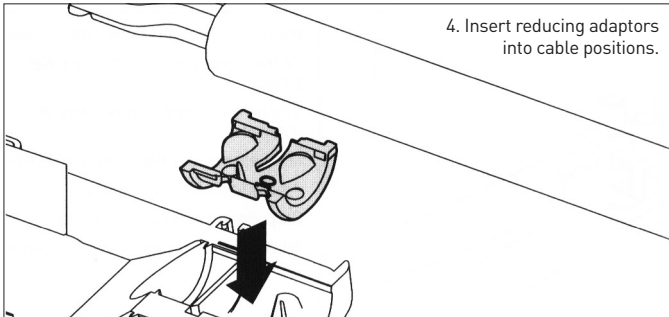
2. Break the four spacers on the connectors.



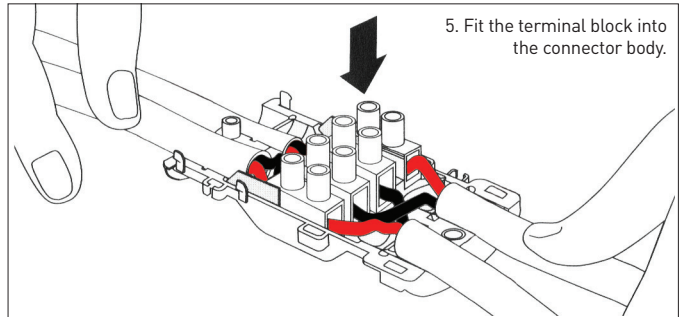
3. Determine which cable positions are to be used, and on one part of the connector body, break the pre-cracked membranes in those positions.



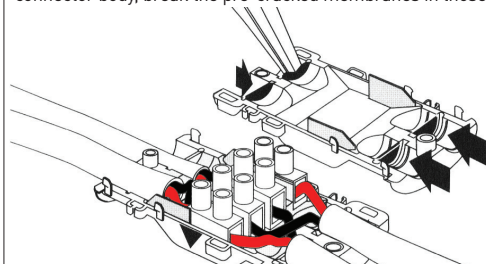
4. Insert reducing adaptors into cable positions.



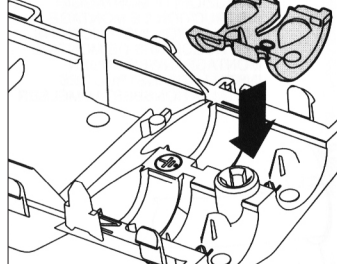
5. Fit the terminal block into the connector body.



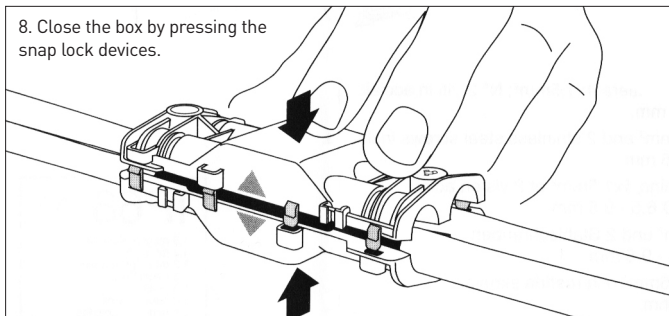
6. Determine which cable positions are to be used, and on the second part of the connector body, break the pre-cracked membranes in those positions.



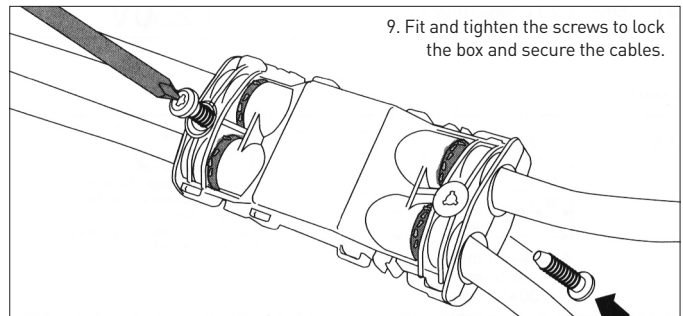
7. Insert reducing adaptors into cable positions.



8. Close the box by pressing the snap lock devices.



9. Fit and tighten the screws to lock the box and secure the cables.



Repeat the above steps for each JB4.

The box can be reopened and resealed as necessary.

JB4

Series Wiring Instructions

Use with any Collingwood constant current driver.

Read assembly instruction (overleaf) before commencing wiring.

Diagram 1 - 1 LED Unit

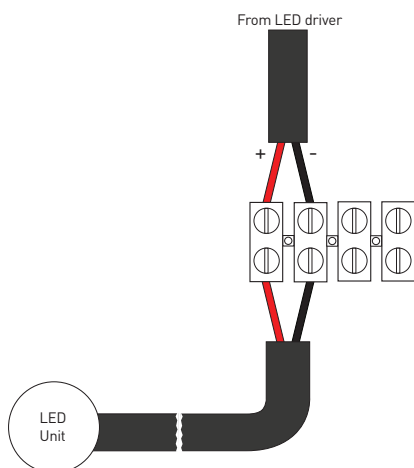


Diagram 2 - 2 LED Units

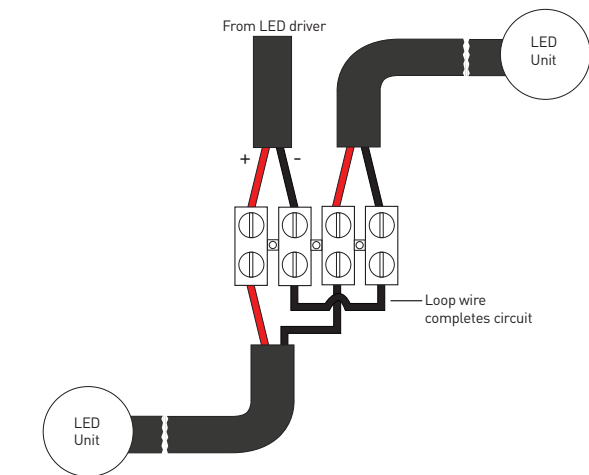


Diagram 3 - 3 LED Units

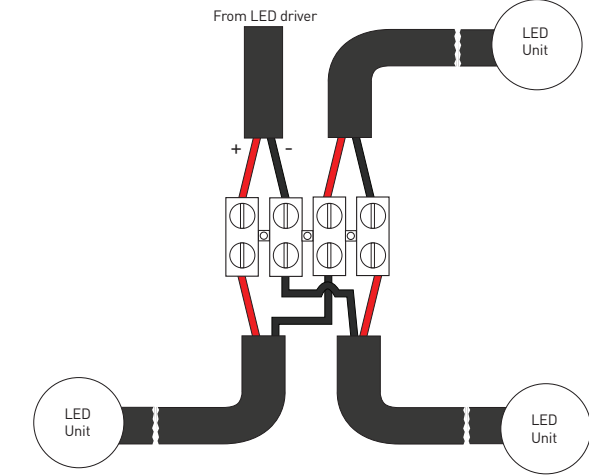
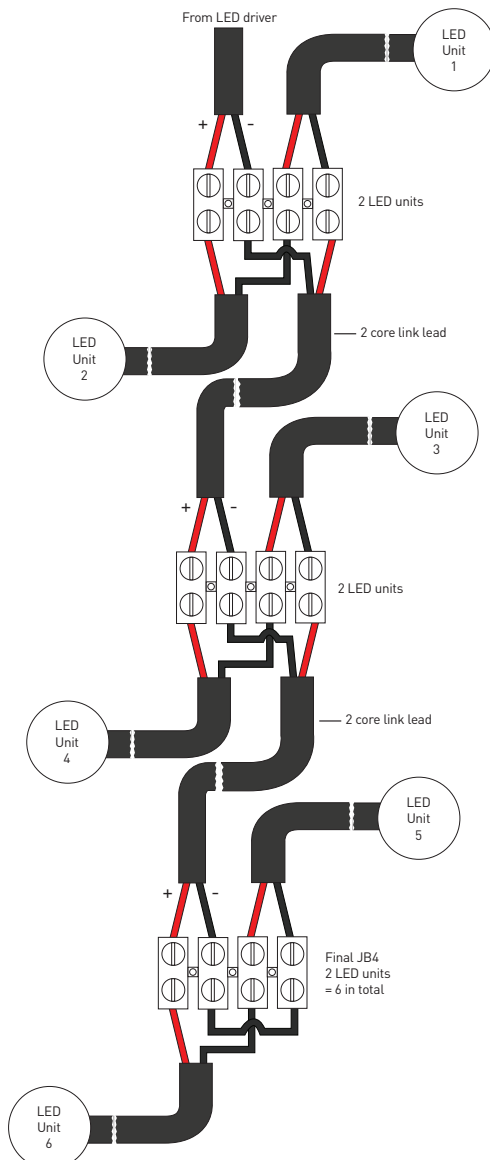


Diagram 4 - More than 3 LED Units

Wire 2 LED units per JB4, then a final JB4 as required.
Example shown below is for 6 LED units.



Above example for 6 LED units shows the last JB4 wired as per Diagram 2 (2 LED units).

For 7 LED units, the last JB4 is wired as per Diagram 3 (3 LED units).

In this way, any number of units can be wired in series, providing the LED driver is not overloaded.

e.g. 9 units = 3 x 2 plus the last JB4 with 3 units.

NOTE- If desired, JB4s can be linked with only one LED unit on each JB4. To do this, replace the LED connection with a loop wire. For example, if LED unit 3 above is not required, connect a loop wire across the two terminals instead of the LED unit.