Wiring over boxes

1

Cable

of 18 wires 18AWG

Cable

of 18 wires 18AWG

**PCB**

**MCU**

Cable

of 10 wires 18AWG

Cable

of 10 wires 18AWG

TX/RX

8 AWG

48 – 52v

**+**

**-**

**-**

**+**

8 AWG

8 AWG

**LCD**

5V

**PCB**

**DC 5v**

M2

**ESC1**

**ESC2**

M1

**PCB**

**Battery**

**BMS**

2

Appendix

this symbol refers to **gland** and the size of each one will depend on the diameter of the cable which will be plugged in.

this symbol refers to **NTC** which will be attached to each device we want to read its temperature state.

**screw terminal** or any type of **connector**.

Current sensor.

1

This cable contains 10 wires all of them in 18 AWG:

* 2 wires for 5VDC.
* 2 wires for TX/RX BMS data.
* 2 wires for current sensor for battery.
* 2 wires for NTC for BMS
* 2 wires spare.

2

This cable contains 18 wires all of them in 18 AWG:

* 2 wires for NTC for ESC1.
* 2 wires for NTC for ESC2.
* 2 wires for current sensor for ESC1.
* 2 wires for current sensor for ESC2.
* 2 wires for NTC for Motor1.
* 2 wires for NTC for Motor2.
* 3 wires for ESC1 controlling.
* 3 wires for ESC2 controlling.