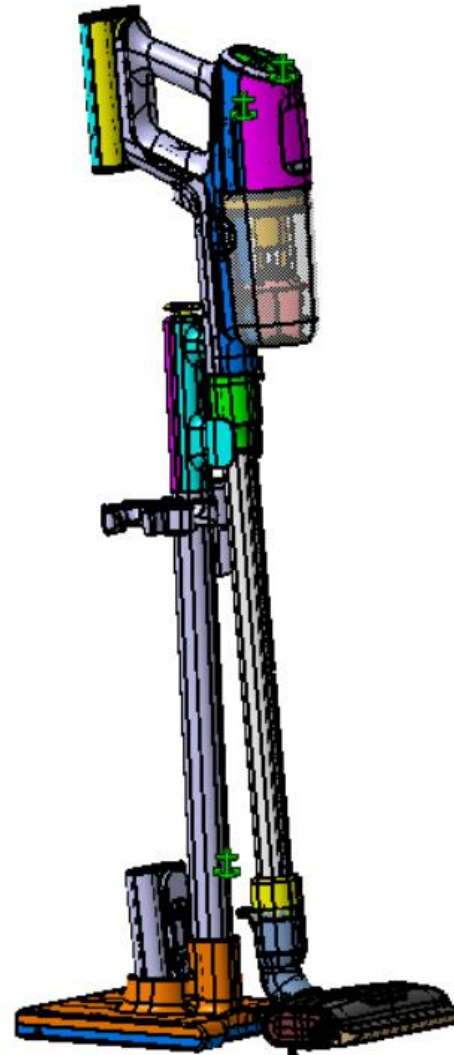
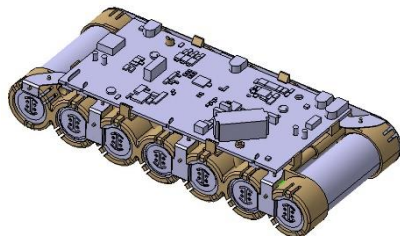
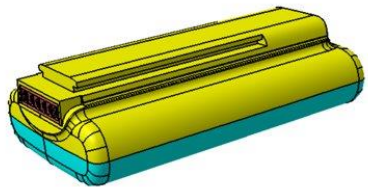
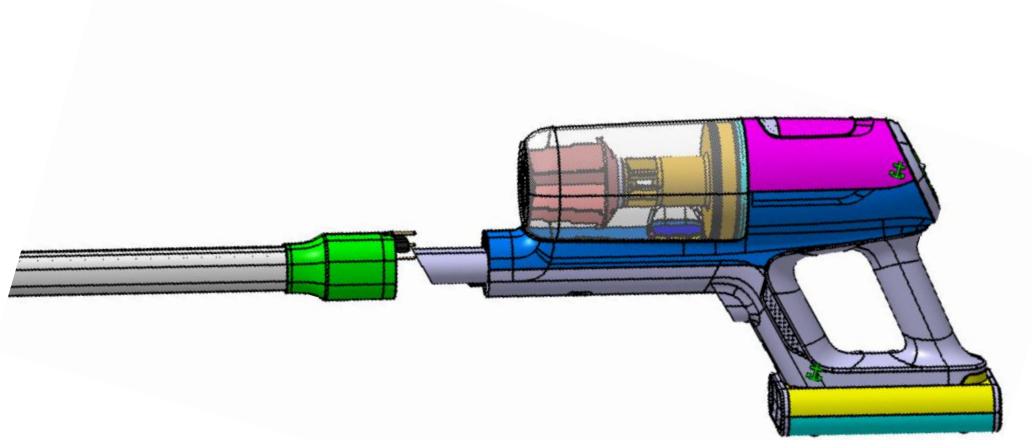
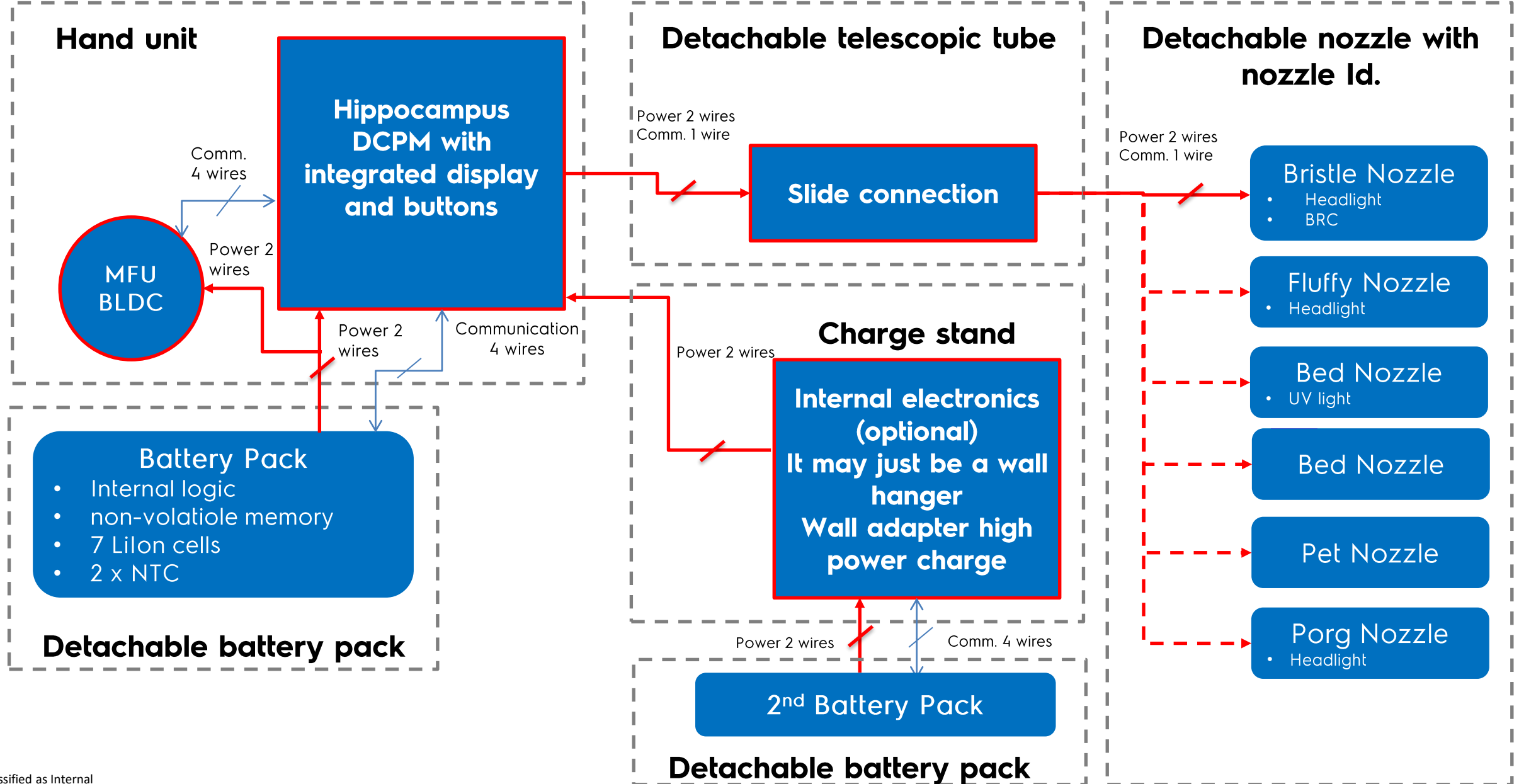


System Architecture Description (SAD)

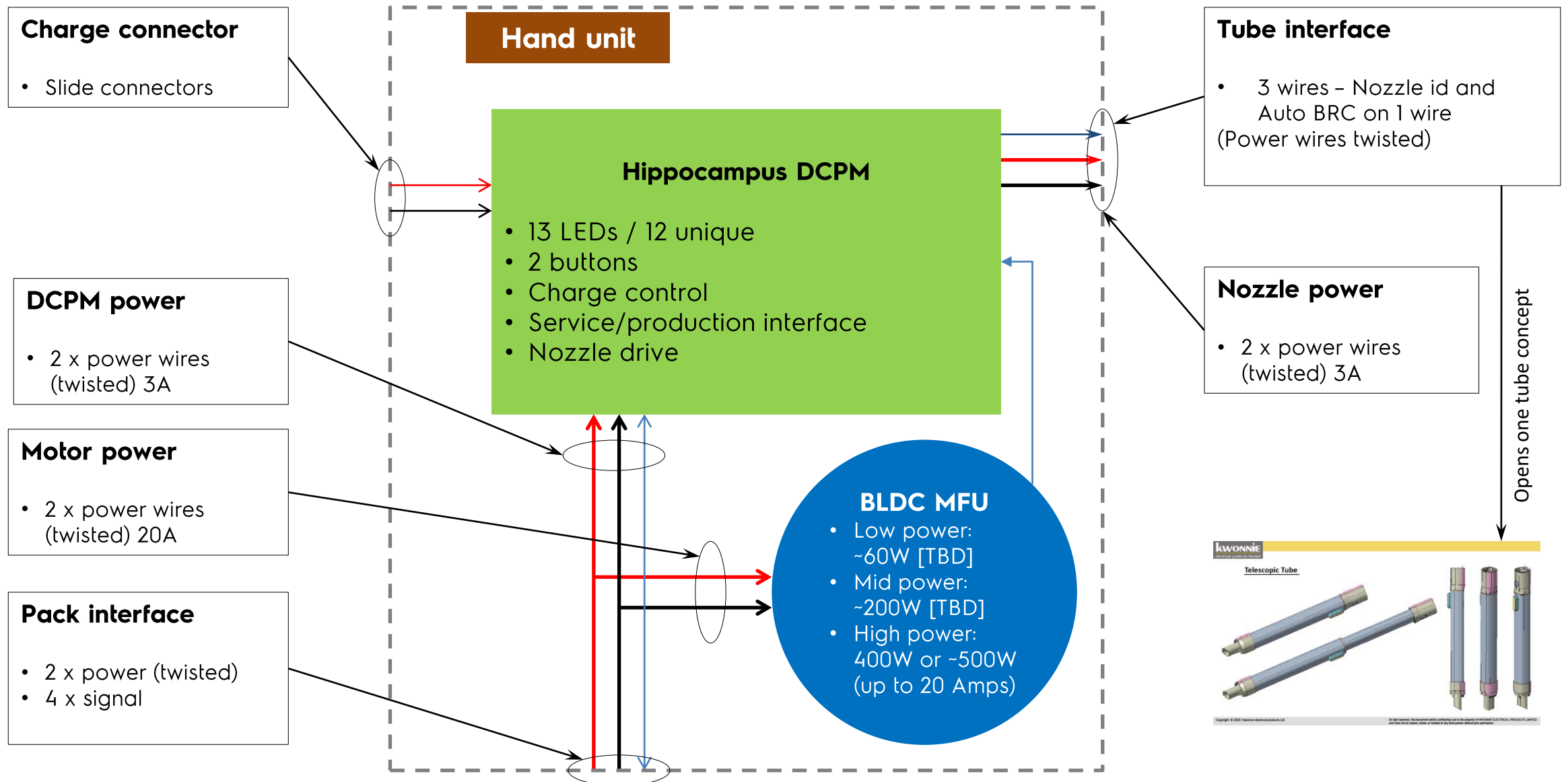
Hippocampus pistole grip



System Architecture summary



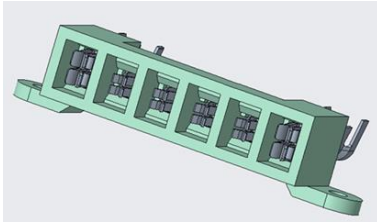
Annex 1: Hand unit



Annex 2: Battery pack

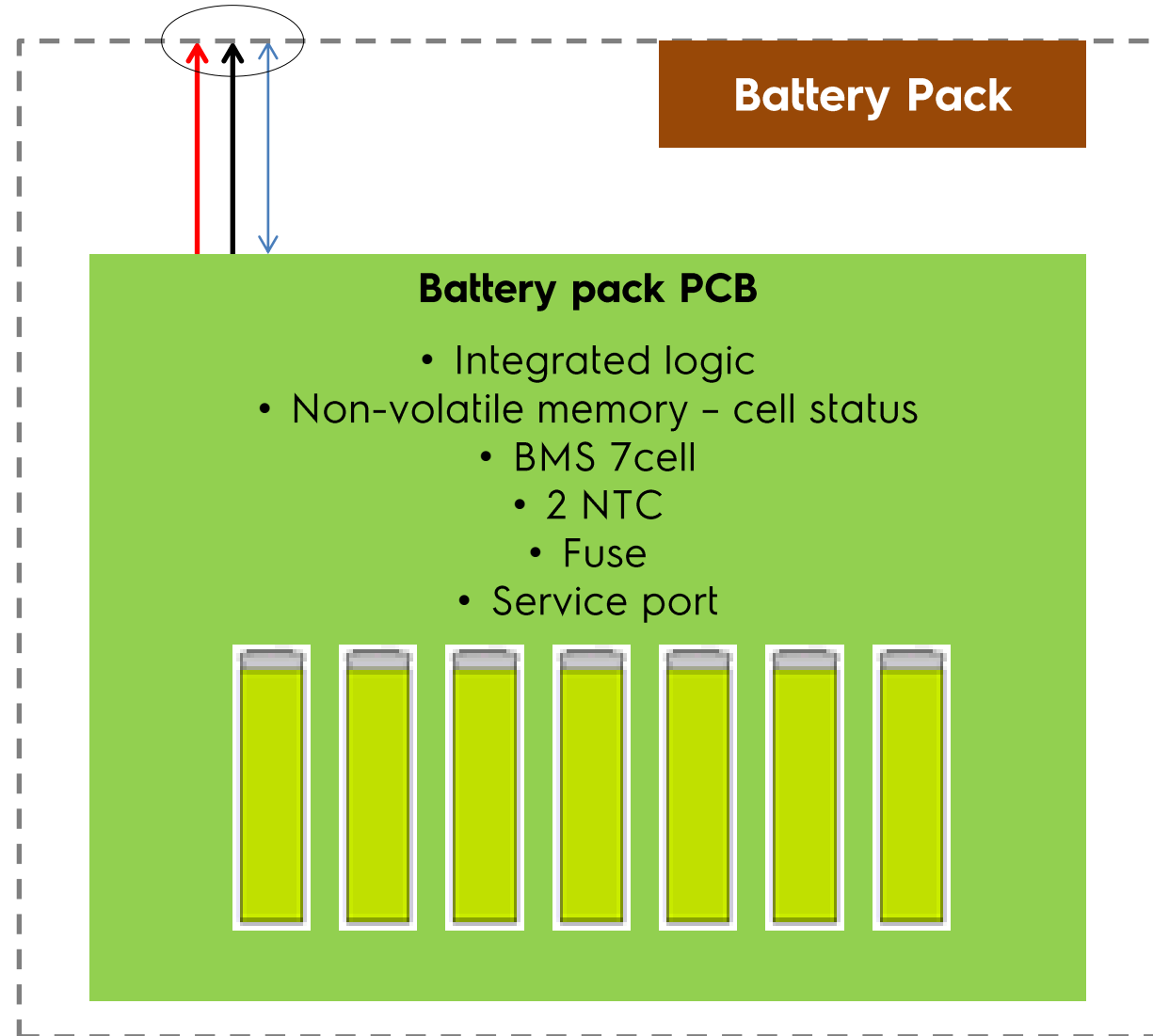
Battery pack connector

- 2 x power: <25A
- 4 x signal:

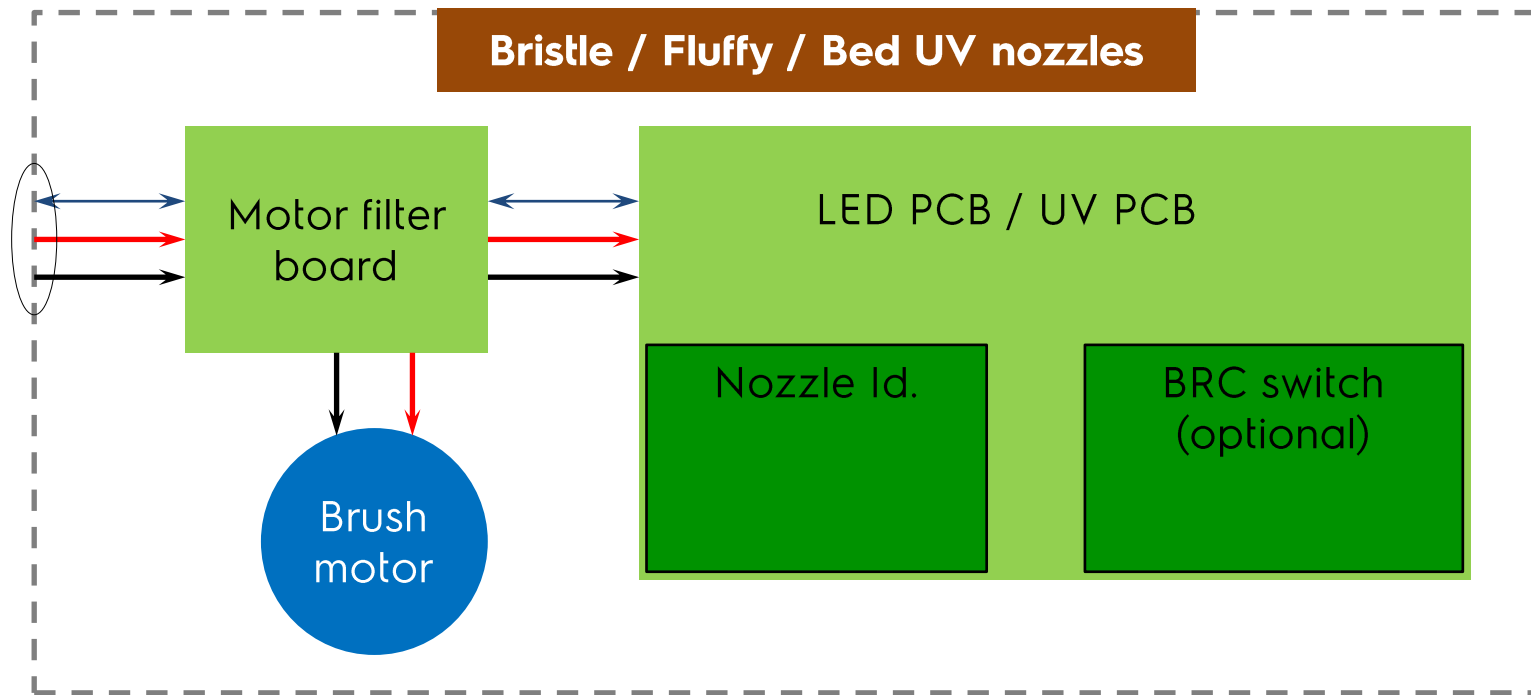


Battery cell setup (All Li-Ion 3.6V)

Cell type	Capacity	Size
Murata VTC5A	2.5 Ah	18650
Murata VTC6AM	4 Ah	21700



Annex 3a: Nozzles



No LED PCB on Bed.

Bed UV

The nozzle ID will be integrated to the UV PCB in Bed nozzle

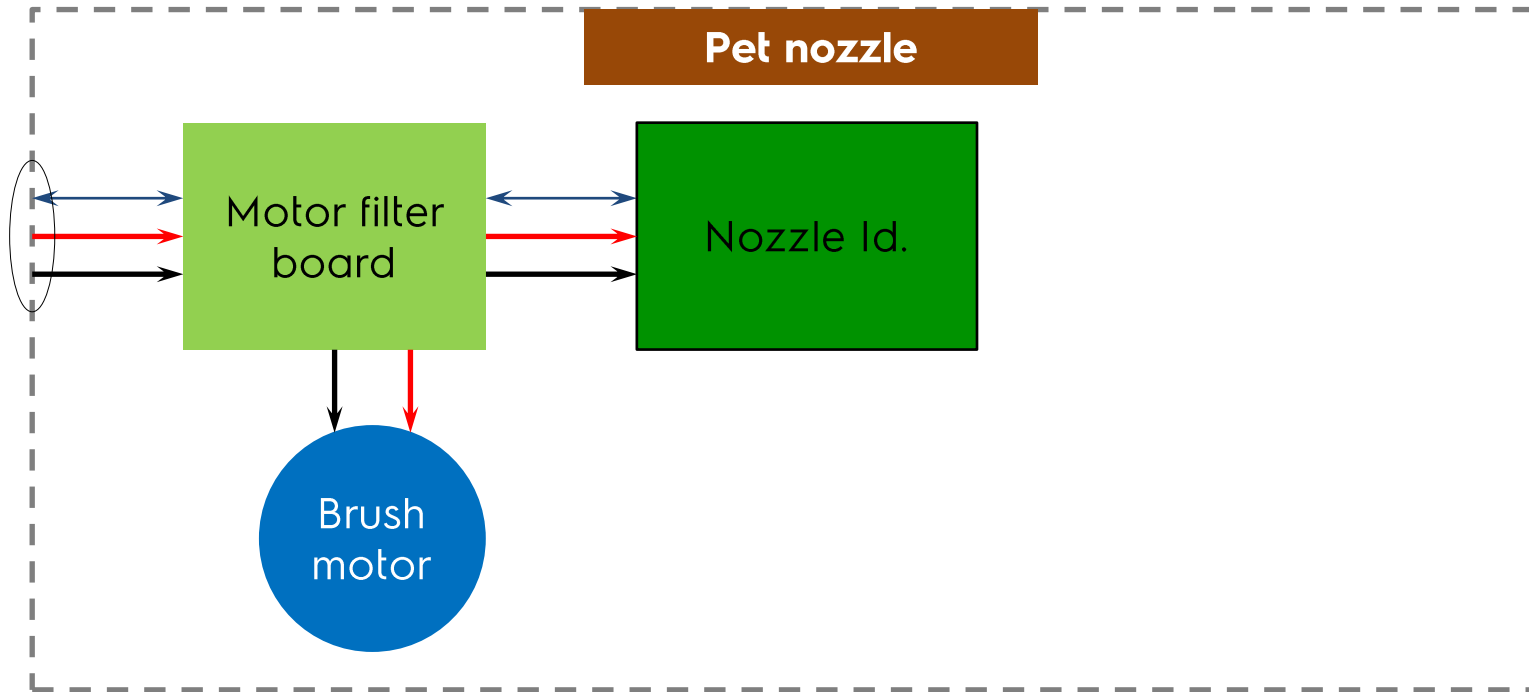
Pet nozzle without UV will have a separate ID board (see next page)

Nozzle Id

Current generator

Bristle	8 mA (to be finetuned)
Fluffy	6 mA (to be finetuned)
Bed	4 mA (to be finetuned)
Pet	4 mA (to be finetuned)
Porg	2 mA (to be finetuned)
Reserved	1 mA

Annex 3b: Pet nozzle



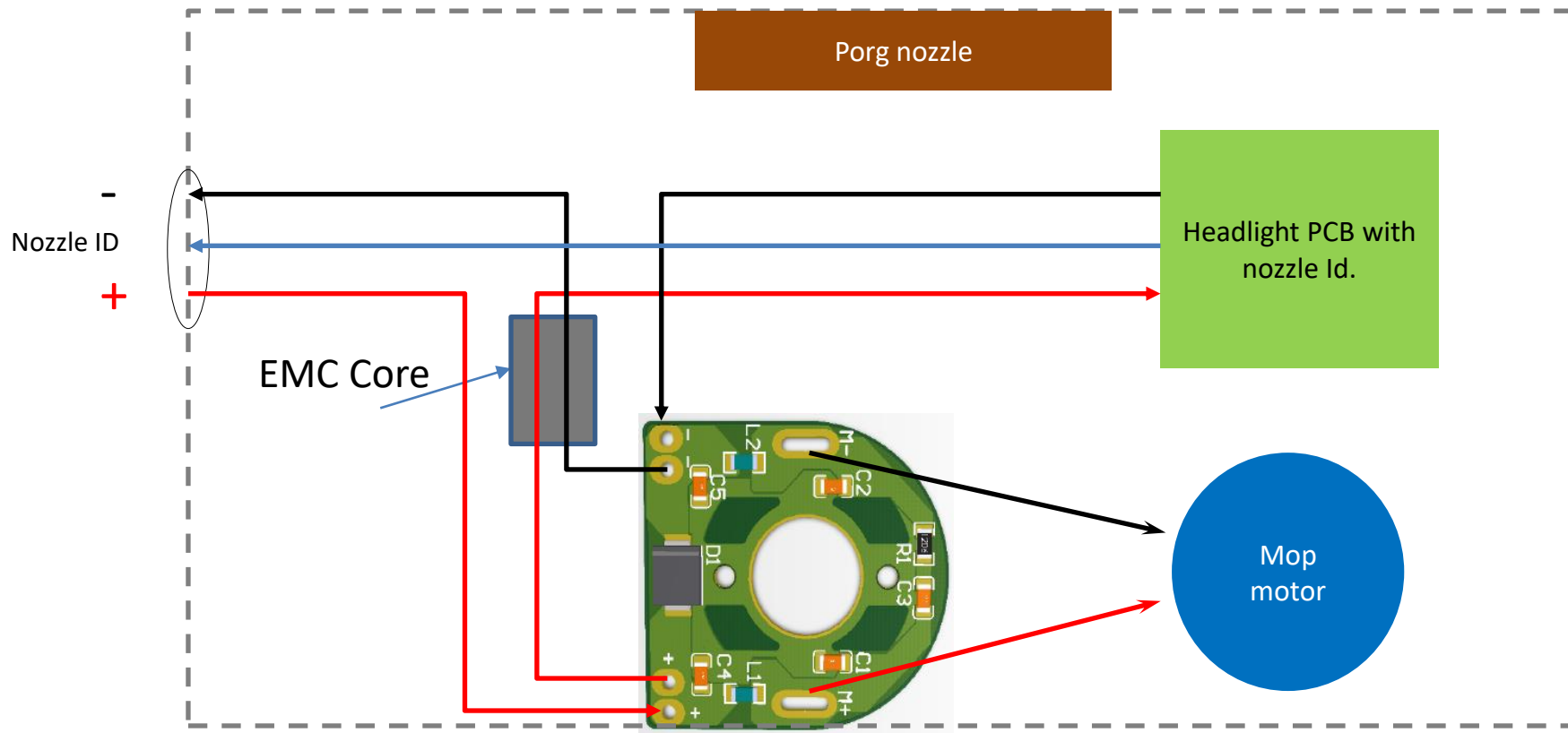
This solution can be used as a backup plan if the components cannot fit on the Bed UV PCB

Nozzle Id

Current generator

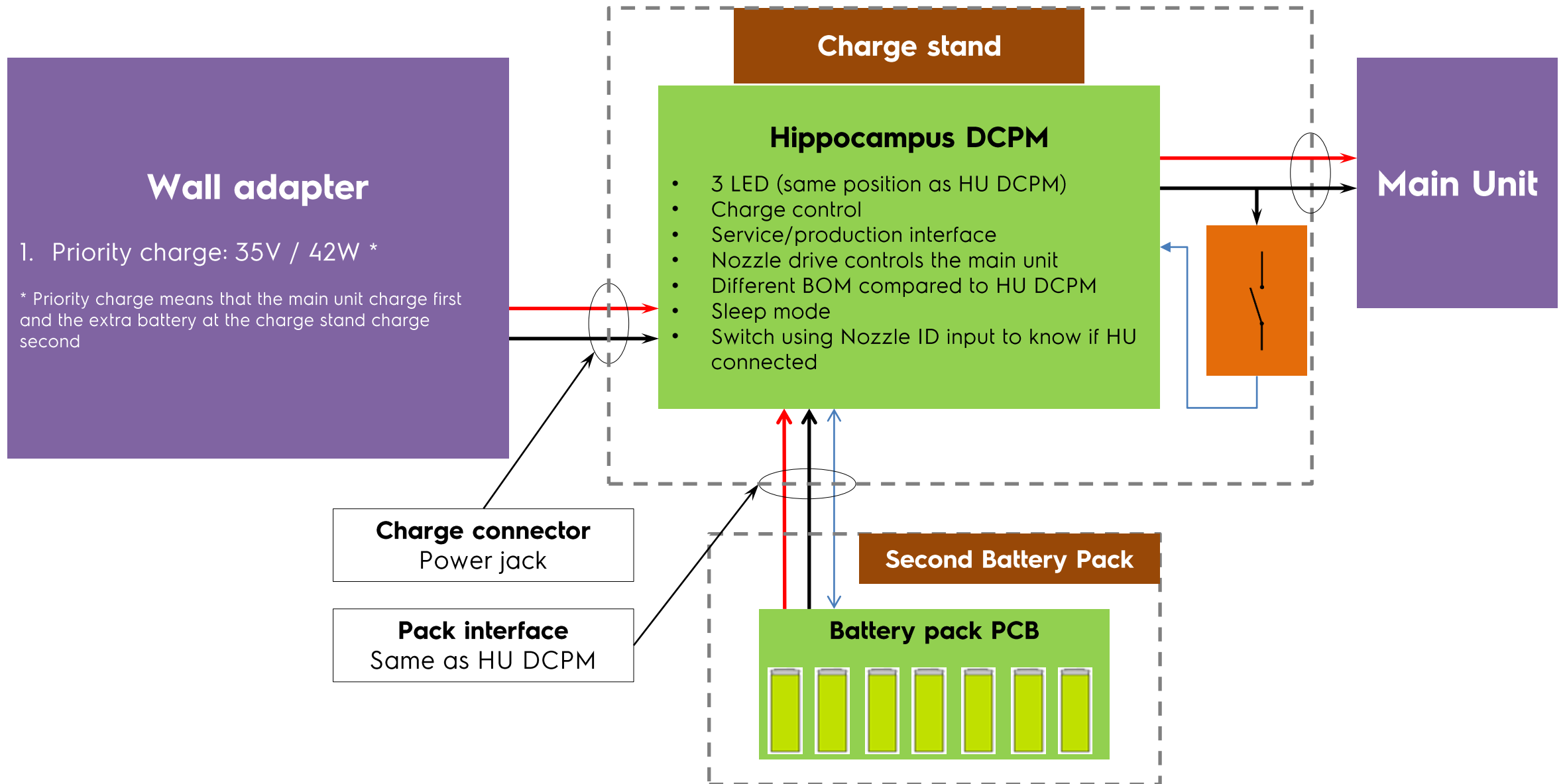
Bristle	8 mA (to be finetuned)
Fluffy	6 mA (to be finetuned)
Bed	4 mA (to be finetuned)
Pet	4 mA (to be finetuned)
Porg	2 mA (to be finetuned)
Reserved	1 mA

Annex 3c: Porg nozzle

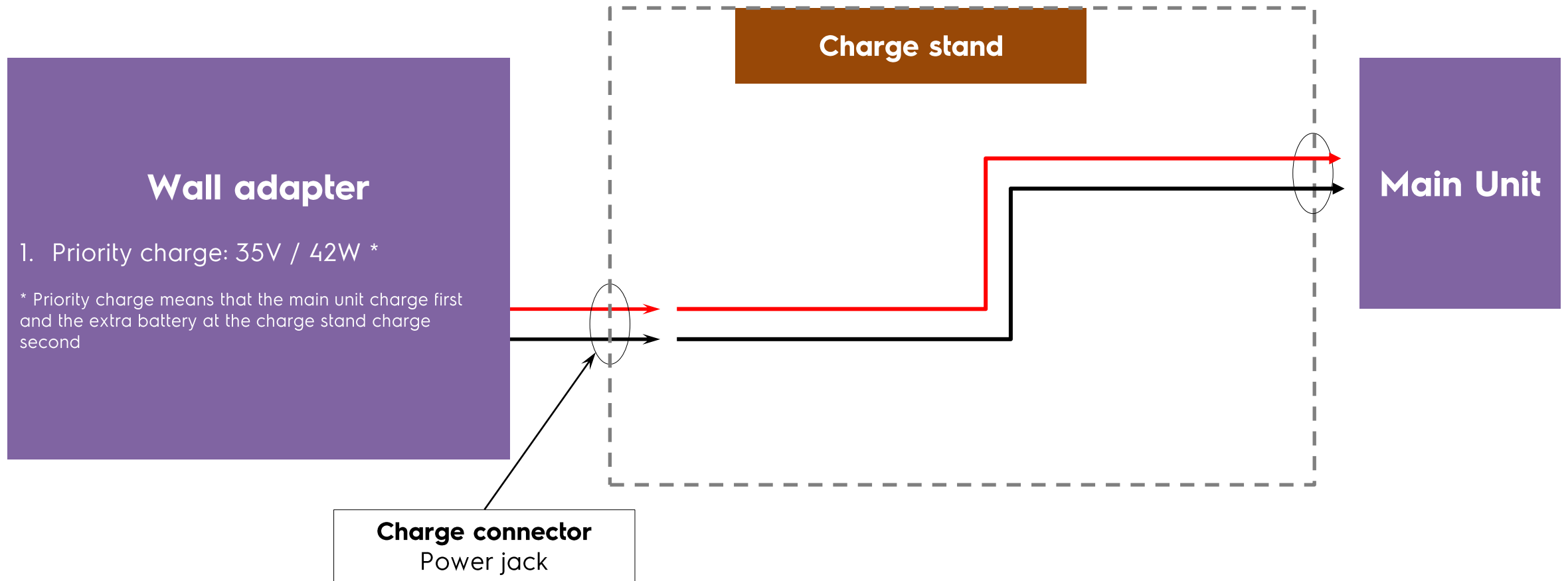


If main unit sense Porg nozzle it switch off the suction (fan motor)

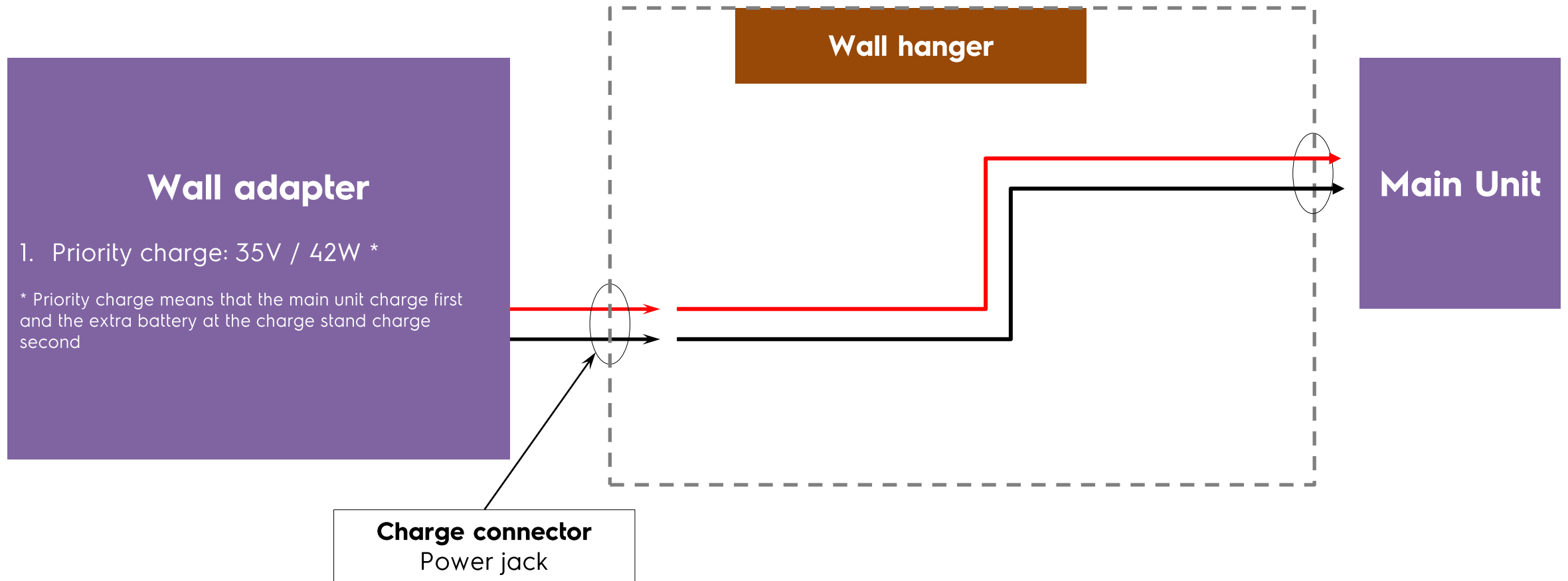
Annex 4a: Charge stand w/ extra charging



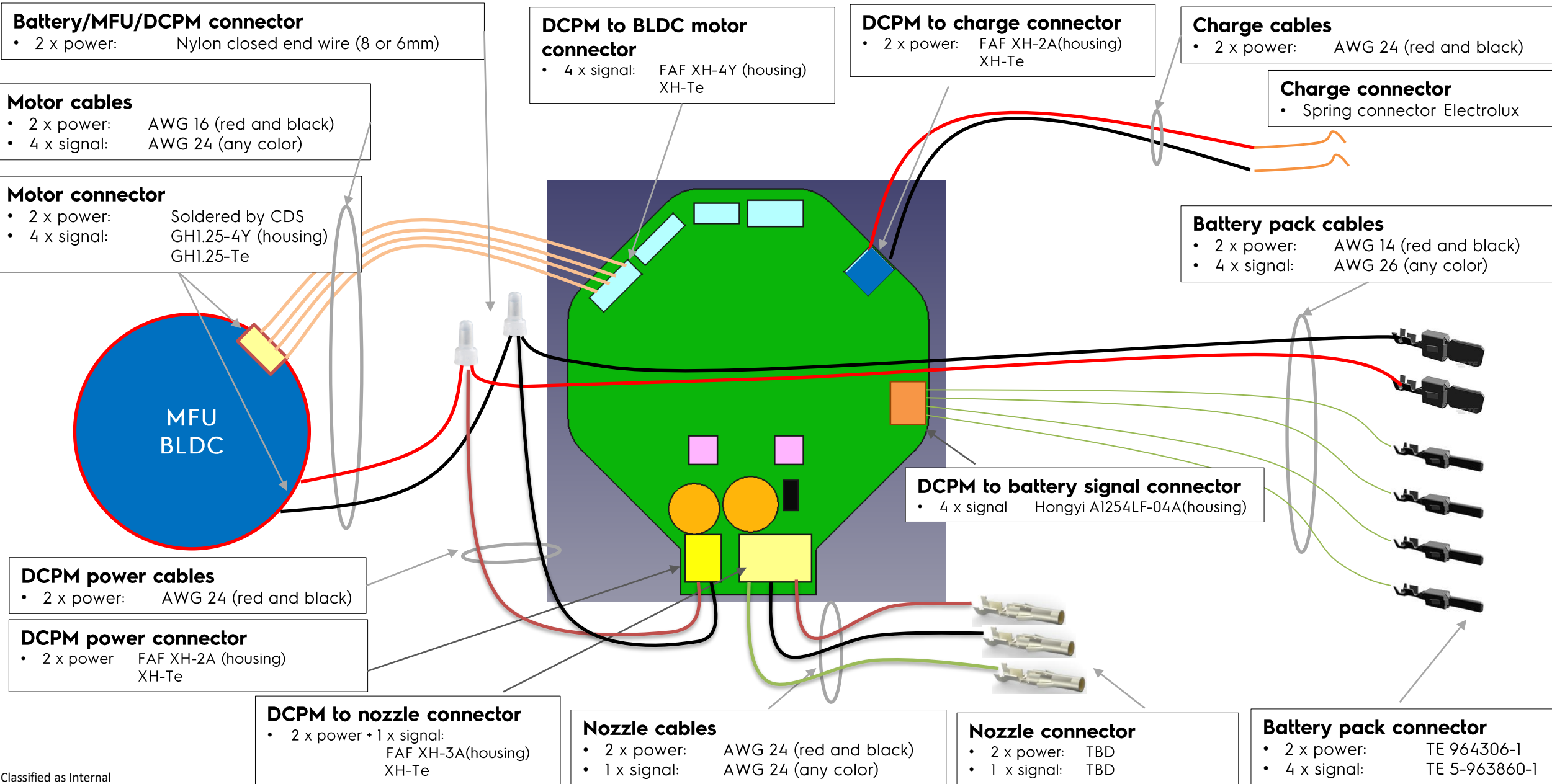
Annex 4b: Charge stand w/o extra charging



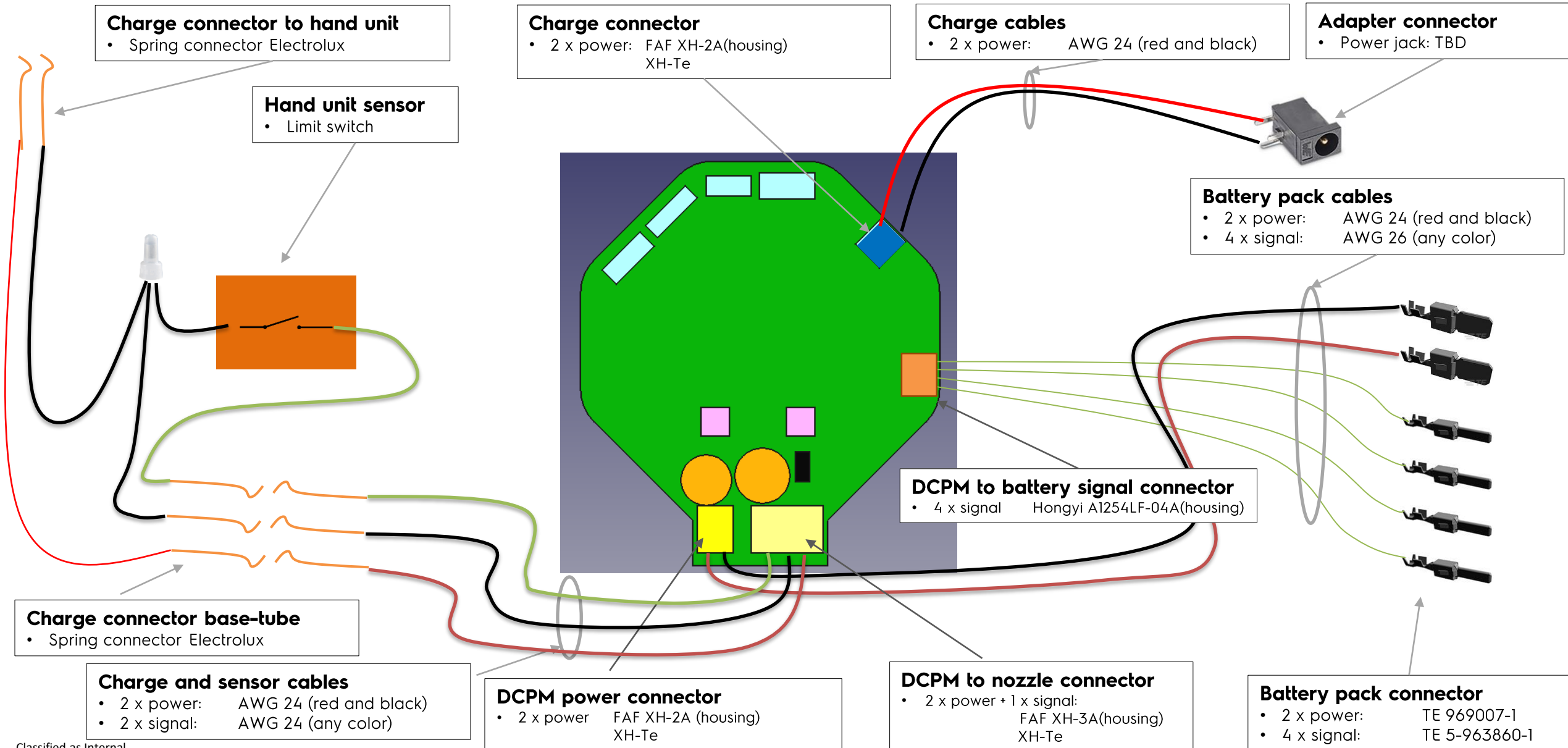
Annex 4c: Wall hanger



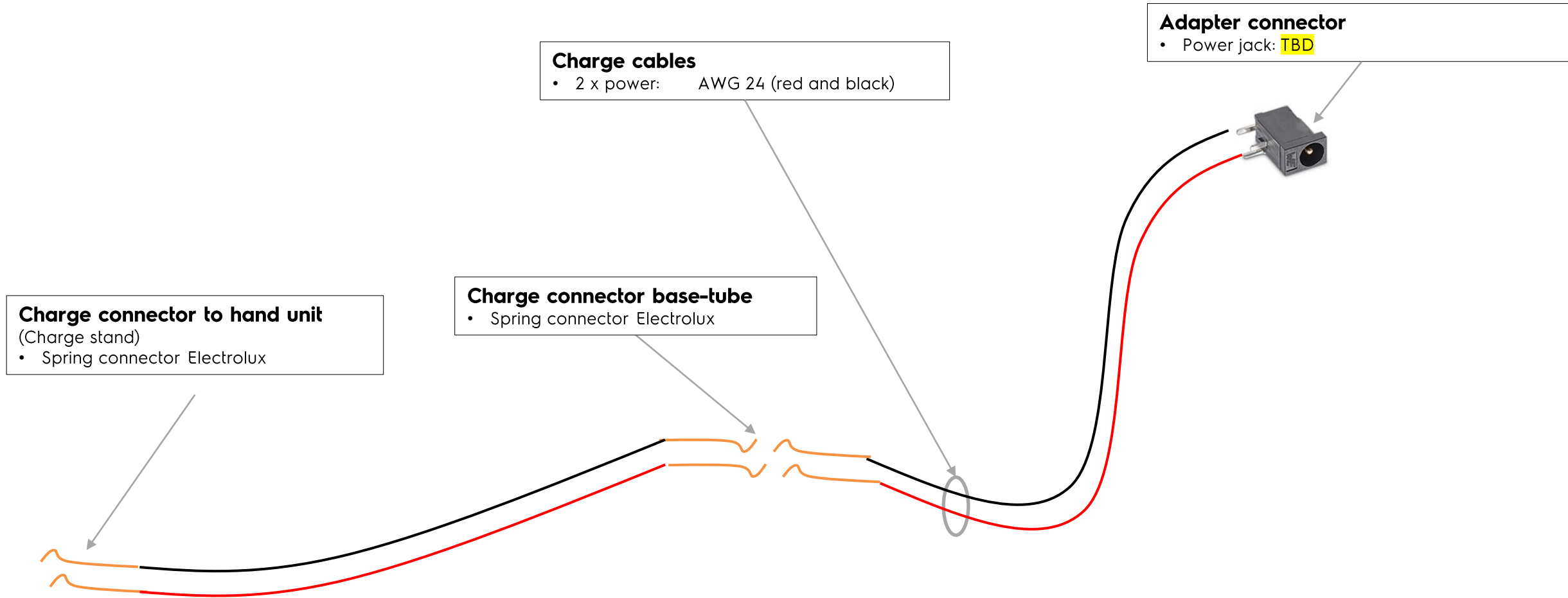
Annex 5: Hand unit harness



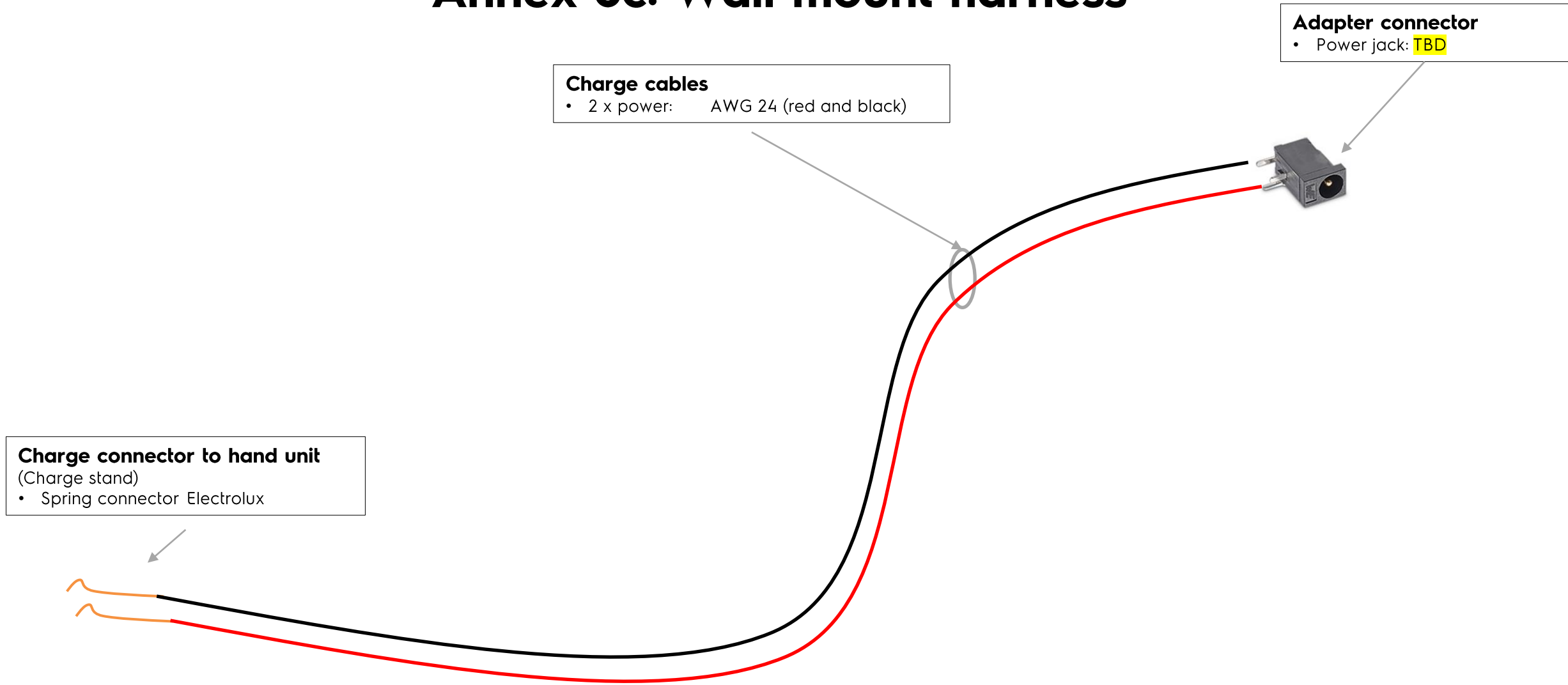
Annex 6a: Charge stand harness (w/ extra pack charging)



Annex 6b: Charge stand harness (w/o extra pack charging)



Annex 6c: Wall mount harness



Annex 7: Battery pack cable harness

Battery pack connector

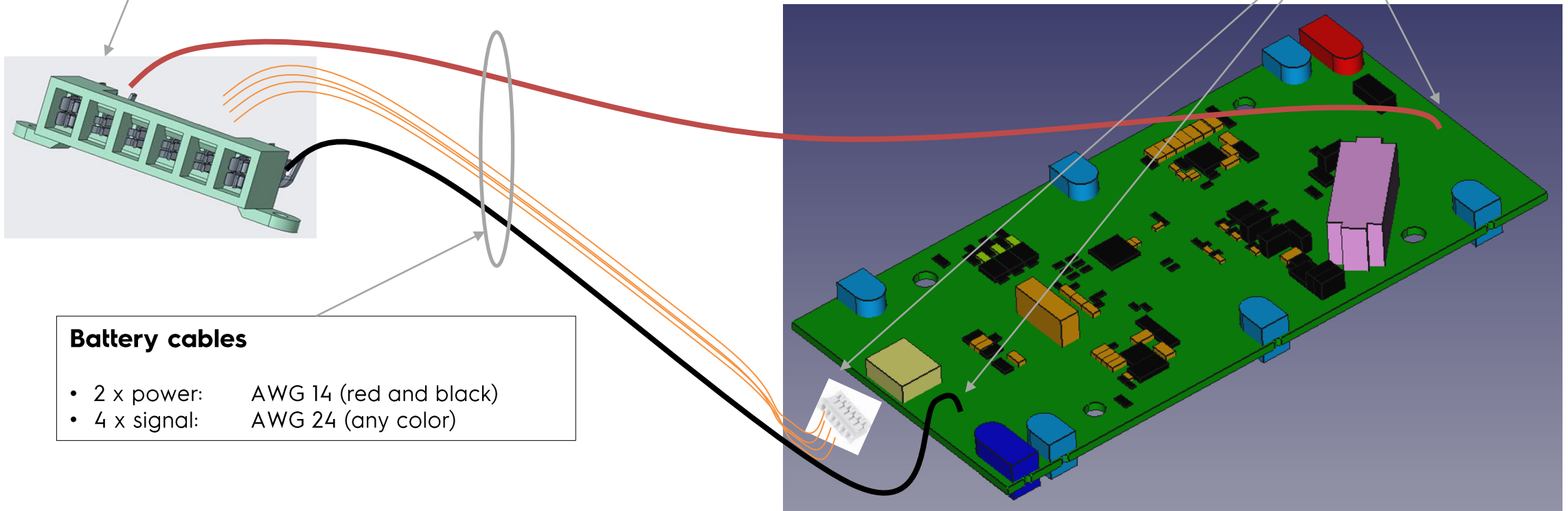
- 2 x power: TE 927833-1
- 4 x signal: TE 927871-2

Battery PCB connector

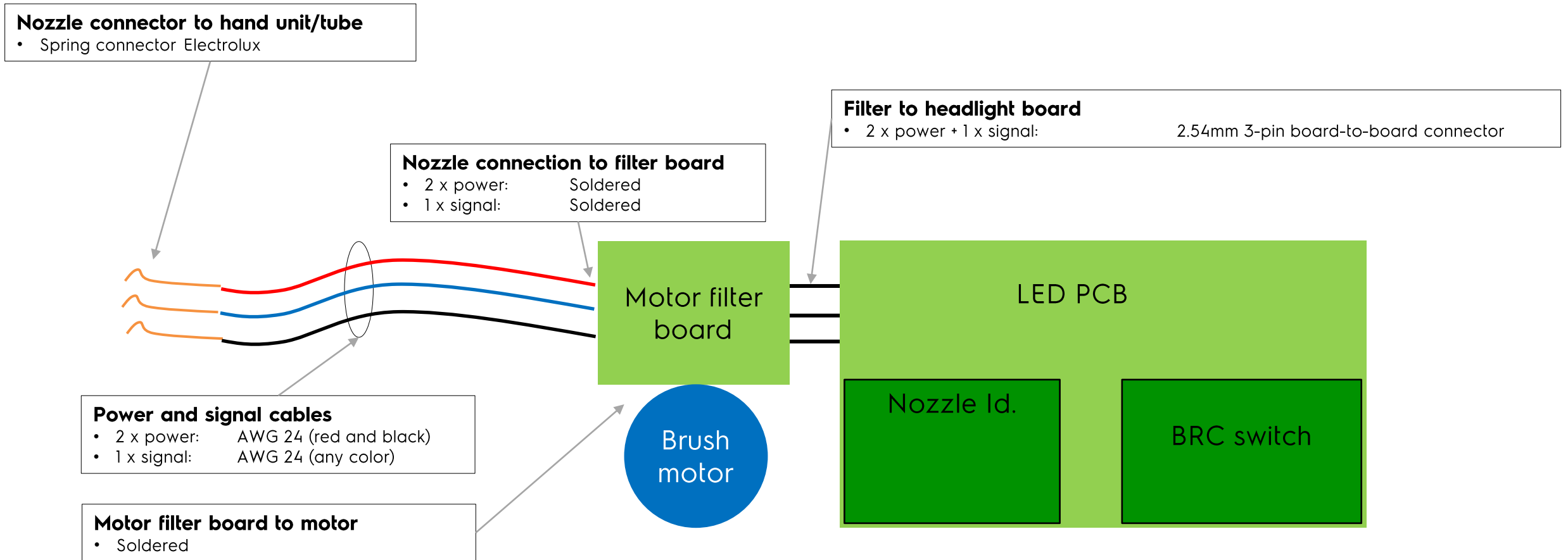
- 2 x power: direct solder
- 4 x signal: FAF PH-4A(housing)

Battery cables

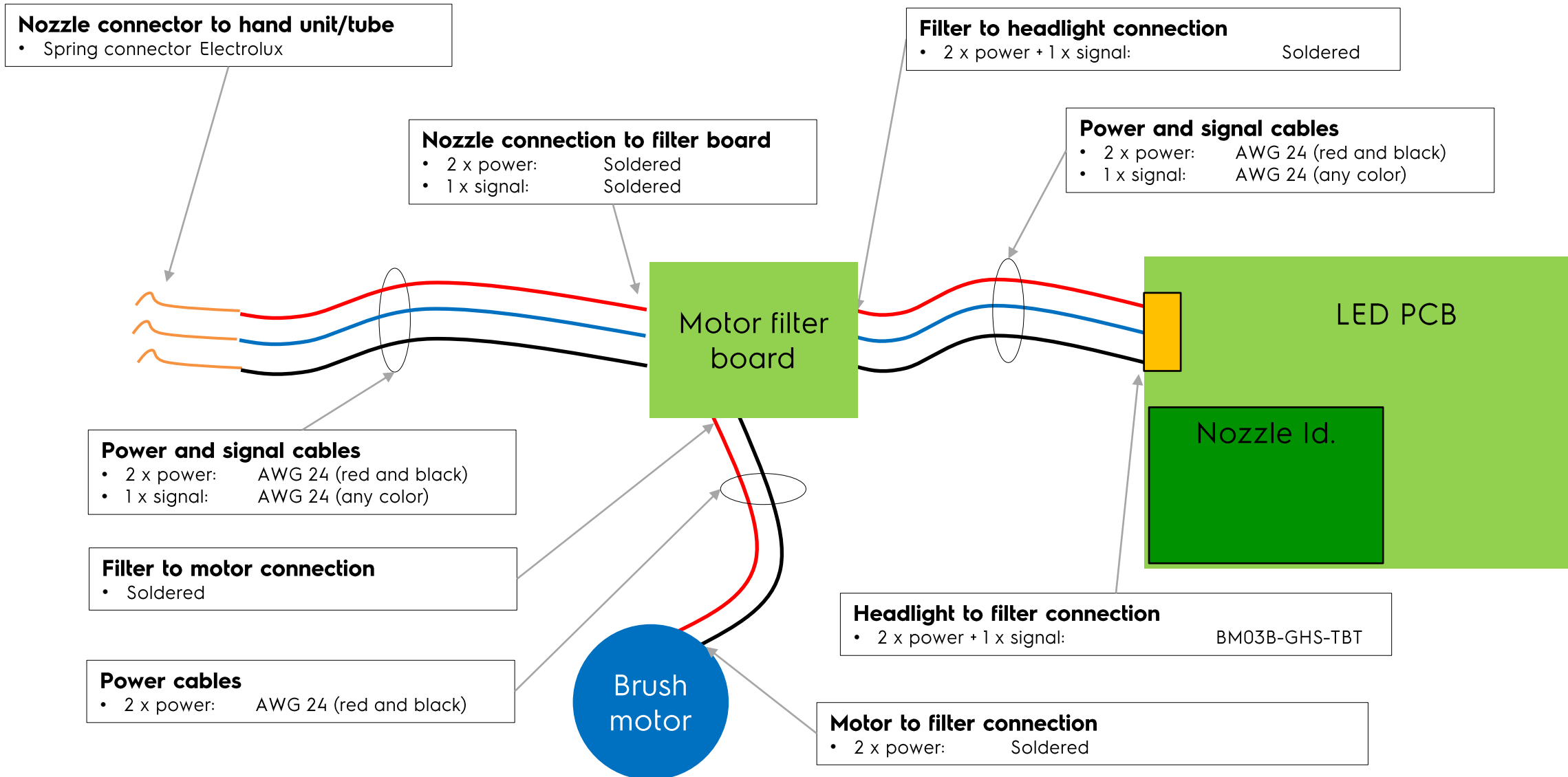
- 2 x power: AWG 14 (red and black)
- 4 x signal: AWG 24 (any color)



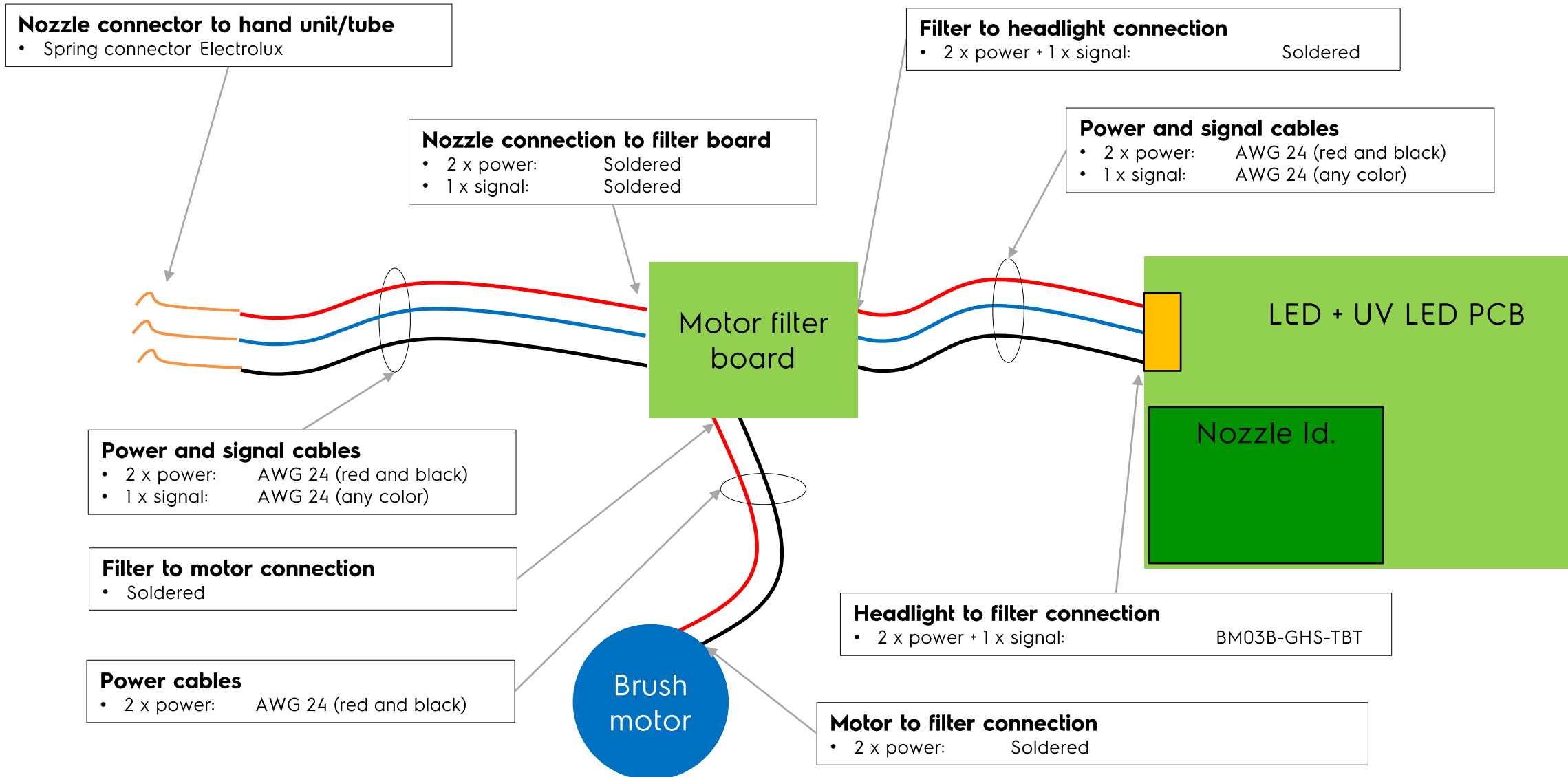
Annex 8: Bristle nozzle harness



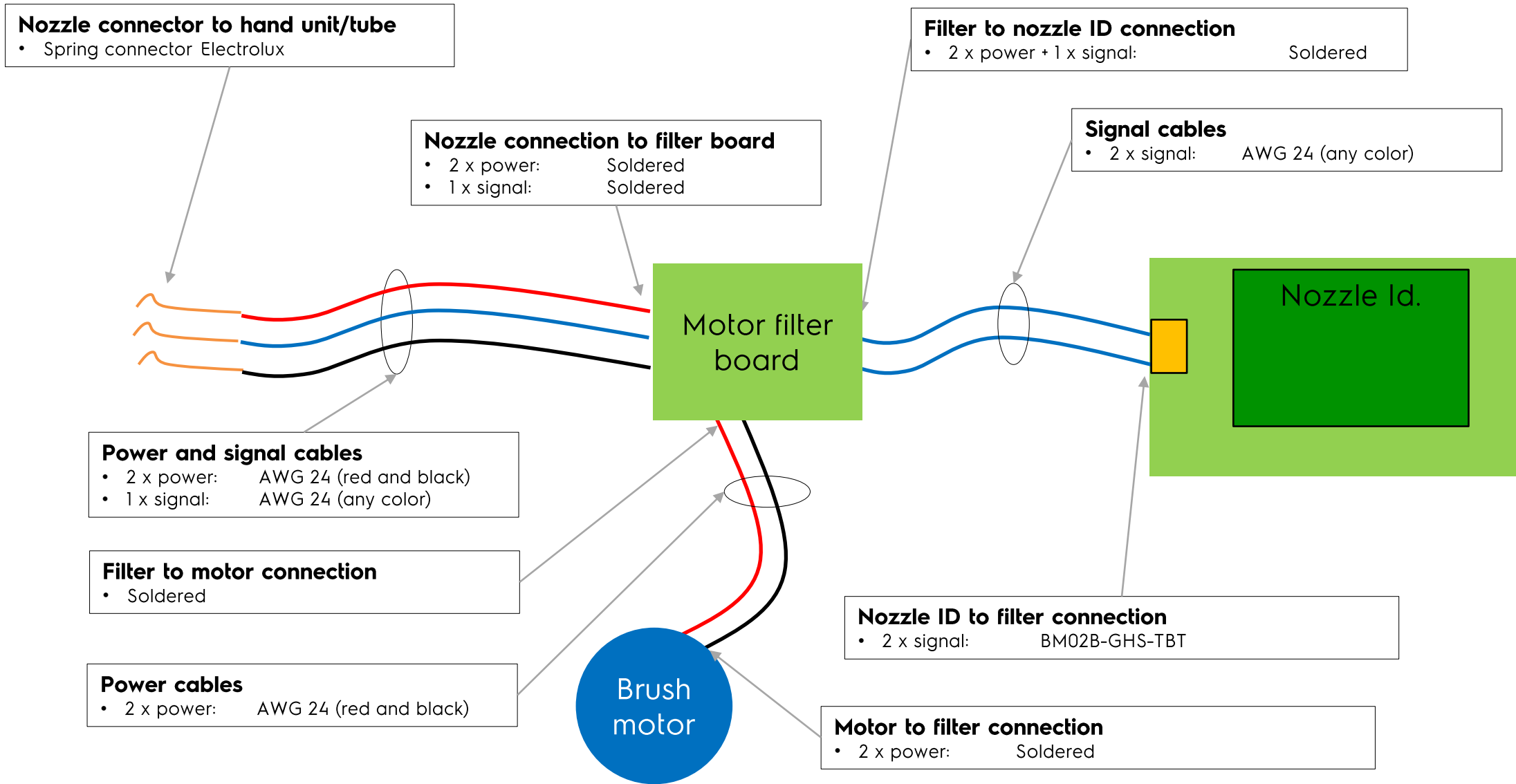
Annex 9: Fluffy nozzle harness



Annex 10: Bed w/ UV nozzle harness



Annex 11: Bed w/o UV & Pet nozzle harness



Annex 12: Adapter

Model: ADC-42FMG-35 35042EPG

Ratings:

- Input 100-240VAC @ 50/60Hz
- Output 35VDC
1.2A
42W

Annex 13: DCPM Board edge connector diagram

BAT+BRS

8	Battery TX
7	Battery RX
6	Battery Signal Power (+)
5	Battery Signal GND (*)
4	HU: Nozzle Id. Signal - CS: Sense switch
3	HU: N/A - CS: Sense Switch
2	Brush motor -
1	Brush motor +

