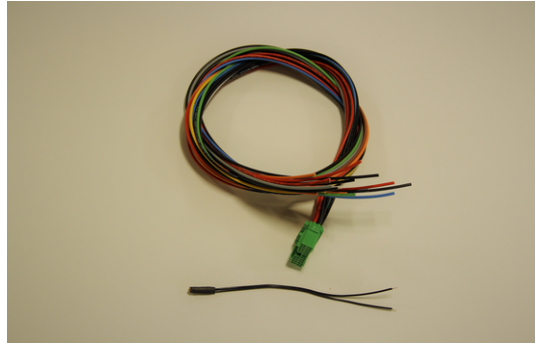
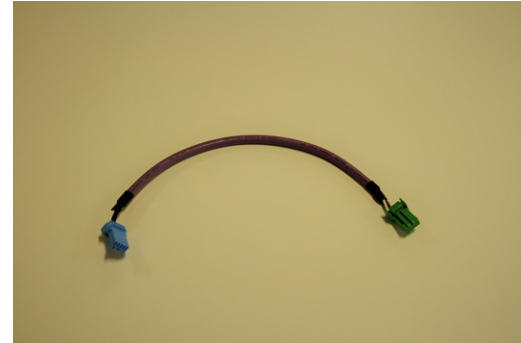




Cell voltage monitoring wire



Temperature sense wire and 1 sensor



isoSPI communication wire

INTRODUCTION

LITHIUM BALANCE n-BMS CMU Wire Harness Kit Type

100803 consists of 4 wire harnesses, which are:

- 1) Cell voltage monitoring wire.
- 2) Temperature sense wire
- 3) isoPI communication wire .
- 4) One temperature sensor.

Each Cell Monitoring Unit (CMU) is able to measure voltage and temperature of maximum 12 cells. CMU cell voltage and temperature sensor connectors are used to connect cells and temperature sensors.

isoSPI connectors are used for connecting n-BMS Master Control Unit (MCU) to CMU, or CMU to CMU.

FEATURES

Mechanical lock assures positive mating.

Unique housing configuration prevents mismatching.

Easy mating work.

High reliable socket contacts.

Simplified crimp-type termination.

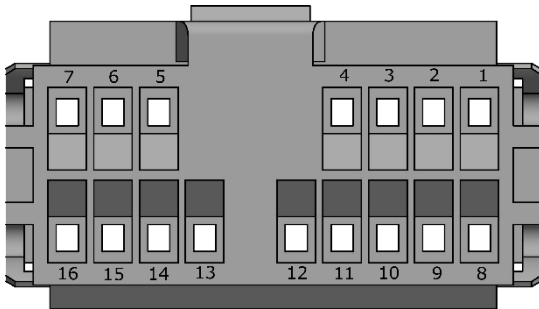
isoSPI communication between MCU to CMU/ CMU to CMU.

*Each CMU is able to connect up to 12 temperature sensors. Temperature sensors can be ordered individually with a product number **000510.1**.

For more information of the LITHIUM BALANCE n-BMS, please refer to the n-BMS datasheet.

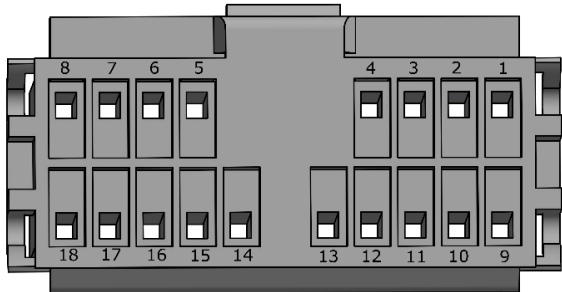


CELL VOLTAGE CONNECTOR



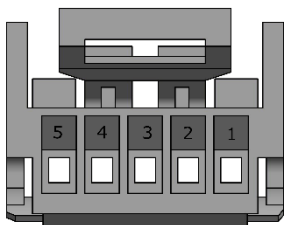
PIN No IN CONNECTOR	SPECIFICATION	PIN No IN CONNECTOR	SPECIFICATION
1	CELL12 + (CMU Power)	9	CELL10 +
2	CELL11 +	10	CELL8 +
3	CELL9 +	11	CELL6 +
4	CELL7 +	12	CELL5 +
5	CELL3 +	13	CELL4 +
6	CELL1 +	14	CELL2 +
7	CELL1 - (CMU Power)	15	CELL1 -
8	CELL12 +	16	No Connection

TEMPERATURE SENSOR CONNECTOR



PIN No IN CONNECTOR	SPECIFICATIONS	PIN No IN CONNECTOR	SPECIFICATIONS
1	NTC 1 SIGNAL	10	GND (NTC 3 & 4)
2	NTC 2 SIGNAL	11	GND (NTC 5 & 6)
3	NTC 3 SIGNAL	12	NTC 5 SIGNAL
4	NTC 4 SIGNAL	13	NTC 6 SIGNAL
5	NTC 9 SIGNAL	14	NTC 7 SIGNAL
6	NTC 10 SIGNAL	15	NTC 8 SIGNAL
7	NTC 11 SIGNAL	16	GND (NTC 7 & 8)
8	NTC 12 SIGNAL	17	GND (NTC 9 & 10)
9	GND (NTC 1 & 2)	18	GND (NTC 11 & 12)

ISOSPI CONNECTOR 1 AND 2



ISOSPI Connector – 1 (Blue)		ISOSPI Connector – 2 (Green)	
PIN No IN CONNECTOR	SPECIFICATION	PIN No IN CONNECTOR	SPECIFICATION
1	Chassis GND	1	IPA_IN
2	Chassis GND	2	IMA_IN
3	Chassis GND	3	Chassis GND
4	IMB_IN	4	Chassis GND
5	IPB_IN	5	Chassis GND

Chassis ground is used as shielding for ISOSPI.

