VE.Can to CAN-bus BMS cables manual

Use these VE.Can to CAN-bus cables to connect a CAN-bus enabled battery to a GX device.

1. Selecting the right cable

ASS030710118 - VE.Can to CAN-bus BMS type A Cable 1.8m

- BYD B-Box
- Discover HELIOS ESS (direct to COM2, without LYNK II)
- Hubble Lithium via CloudLink (incl. AM-10+/Blade internal CloudLink)
- Pylontech US2000C/US3000C/UP5000/Force-L

ASS030720118 - VE.Can to CAN-bus BMS type B Cable 1.8m

- AXIstorage 7S/9S
- BMZ
- BSLBATT Lithium battery
- LG Chem Resu
- Pylontech US2000/US3000/UP2500
- Solar MD BMS EX
- Freedom Won eTower

ASS030064950 RJ45 UTP Cable (Standard Ethernet)

- Bluenova Energy Storage
- Cegasa eBick
- Freedom Won LiTE
- MG Energy Systems

Custom (See Battery Documentation)

- Exide
- SolarMD Logger V2

2. Installation

The side labeled 'CAN-bus BMS' plugs into the battery. The other side, labeled 'VE.Can' must be plugged into either the VE.Can port of the GX device, or the BMS-Can port.

Both port types (VE.Can and BMS-Can) on a GX Device can be configured for use with a CAN-bus BMS connected third party battery.

For configuration, see the manual specific to the brand of battery you are using.

3. Pin-out

In some cases it might be needed to make the cable at the location. Find below the pin-outs. Make sure to very carefully test the cable after crimping it. Self-made cables are very often the causes of very hard to diagnose problems.

3.1 Type A

Function	Victron VE.Can side	Battery side
GND	Pin 3	Pin 6
CAN-L	Pin 8	Pin 5
CAN-H	Pin 7	Pin 4

3.2 Type B

Function	Victron VE.Can side	Battery side
GND	Pin 3	Pin 2
CAN-L	Pin 8	Pin 5
CAN-H	Pin 7	Pin 4

From:
https://www.victronenergy.com/live/ - **Victron Energy**

Permanent link:
https://www.victronenergy.com/live/battery_compatibility:can-bus_bms-cable

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DECLARATION OF CONFORMITY

CE

COMPANY : Victron Energy B.V.

ADDRESS : De Paal 35
1351 JG Almere
The Netherlands

Declares that the following products:

PRODUCT TYPE : Auxiliary components
BRAND : Victron Energy

Temperature sensor for BMV-702/712	M8 circular connector cables
RJ45-splitter 1xRJ45 male/15cm cable/2xRJ45 female	VE.Can to CAN-bus BMS type A Cable 1.8 m
Interface MK3-USB (VE.Bus to USB)	VE.Can to CAN-bus BMS type A Cable 5 m
VE.Direct LoRaWAN EU863-870 module	VE.Can to CAN-bus BMS type B Cable 1.8 m
VE.Direct LoRaWAN US902-928 module	VE.Can to CAN-bus BMS type B Cable 5 m
VE.Direct LoRaWAN AU915-928 module	USB extension cable 0,3m one side right angle
VE.Direct TX digital output cable	VE.Bus to BMS 12-200 alternator control cable
Interface 1140	CAN-bus Temp. sensor
Inverter Control VE.Direct	VE.Can Power Cable

Are in conformity with the requirements of the following Directives of the European Union:

EMC Directive 2014/30/EU with the following harmonized standards:

EN 55014-1:2017/A11:2020
EN 55014-2:1997/A1:2001/A2:2008
ISO 7637-2:2016

Low Voltage Directive 2014/35/EU with the following harmonized standards:

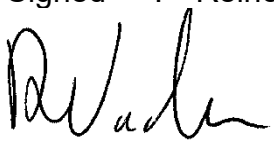
EN-IEC 60335-1:2012/AC:2014/A11:2014/A13:2017/A1:2019/A14:2019/A2:2019/A15:2021
EN-IEC 62109-1:2010

Restriction of the use of certain hazardous substances RoHS (2011/65/EU and 2015/863/EU) with the following harmonized standards:

EN-IEC 63000:2018

CE MARK DATE: January 15th, 2020

Signed : Reinout Vader



Authority : Managing Director
Date : 01 October 2023