# 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**

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Last update: **2026-10-10 08:37**