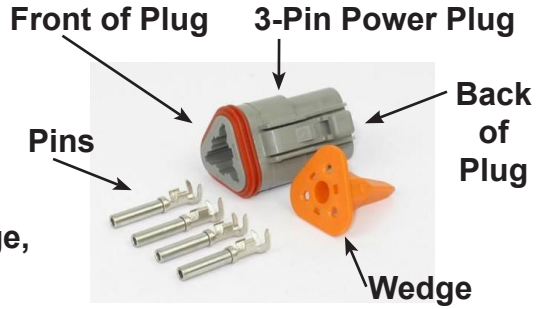
VEETHREE ELECTRONICS NMEA 0183 GPS SPEEDOMETER

The Veethree GPS Speedometer is compatible with many NMEA 0183 devices such as the Veethree GPS receiver, chartplotters and other external GPS antennas. There are three different ways of connecting the GPS Speedometer, it all depends on what output is available on the receiver.

Make sure to disconnect battery before making any wire connections. Connect battery after all wire connections are properly connected.

No matter what GPS receiver is being used, the 3-Pin Power Plug should be wired. The pin identification is moulded on the side of the plug near the back section.

Crimp the wire to the pin terminal. Insert the terminal through the rubber grommet on the back of the plug. Once the terminal is fully inserted you should hear a click sound and the terminal will not come back out when the wire is tugged. Once all the terminals are inserted, insert the wedge in the front of the plug until it snaps in place.

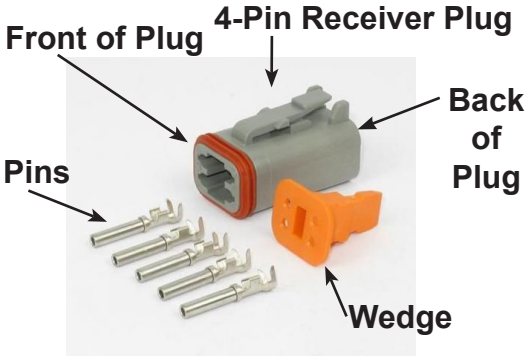


PIN A - Power for the gauge, 10-16 VDC
PIN B - Power for the light
PIN C - Ground

The pin identification for the 4-Pin Receiver Plug is moulded on the back of the plug.

When using the Veethree GPS receiver all 4 wires are used. They are inserted in the back of the 4-Pin Receiver Plug in the following order.

PIN 1 - White Wire
PIN 2 - Green Wire
PIN 3 - Red Wire
PIN 4 - Black Wire



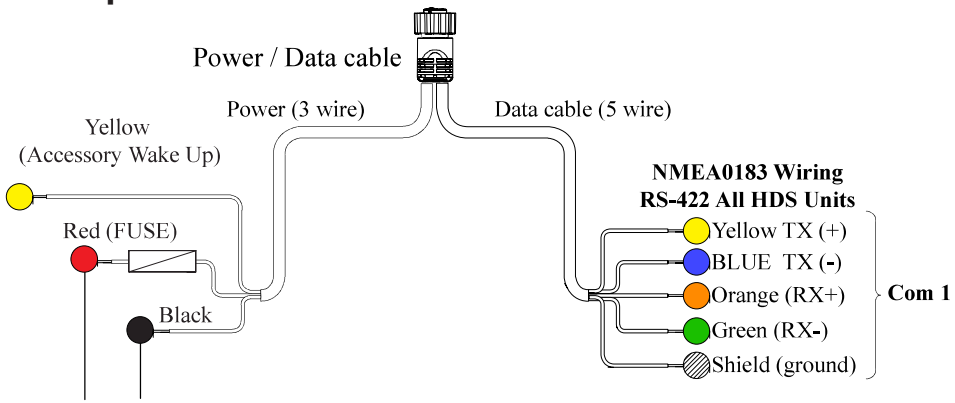
All data displayed by the GPS speedometer is for reference only. It should not be used as the only source for navigation. Loss of signal due to atmospheric changes is possible.

Below speeds of approximately 1.5 MPH (2.5 km/h) the speedometer will not display speed and the heading will remain fixed at the last heading displayed.

The GPS Speedometer is compatible with either 4,800 or 38,400 Baud Rate.

When using a 3rd party GPS device like a chartplotter, please make sure that there is an output to drive an NMEA 0183 device available. The wiring can differ from device to device. Below are two examples.

Example 1

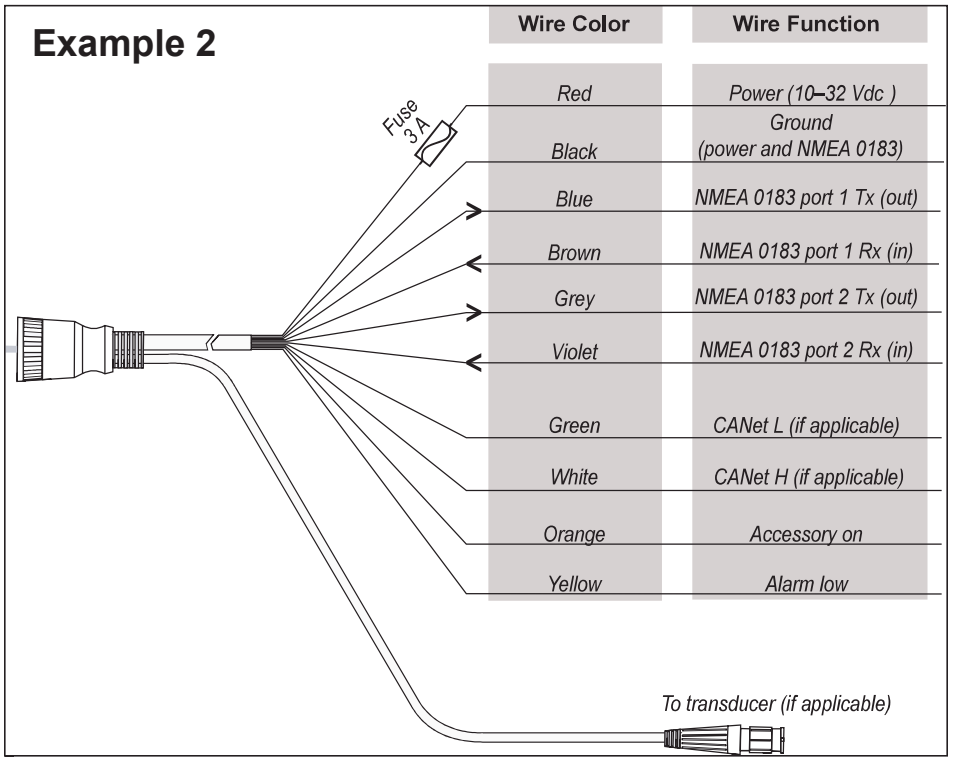


In this situation the Fishfinder/Chartplotter combo has a NMEA 0183 Yellow Tx(+) and Blue Tx(-). Both of these wires need to be used. The Yellow Tx(+) inserted to PIN 1 and Blue Tx(-) inserted to PIN 2, PIN 3 and PIN 4 are not used.

It is also necessary to make sure that this output is Enabled and RMC sentences are also enabled in the setting of your GPS device. RMC ($GPRMC) sentences are the minimum specific GPS/Transmit data that is required for the Veethree GPS Speedometer.

An NMEA 0183 signal splitter must be used if the output is to drive more than one device. Veethree does not produce or sellsignal splitters.

Example 2



In this situation the chartplotter has two single-wire NMEA 0183 output wires that come out of their harness. The first is Blue, and labeled port 1 Tx(out), the second is Gray, and labeled port 2 TX-(out). If you are using port 1, the Blue wire should be inserted in to PIN 1; PIN 2 and PIN 4 should be linked together, and PIN 3 is not used. If using port 2 Gray wire, the above is the same but using Gray instead of Blue.

It is also necessary to make sure that the selected port output is Enabled and RMC sentences are also enabled in the settings of your GPS device. RMC ($GPRMC) sentences are the minimum specific GPS/Transmit data that is required for the Veethree GPS Speedometer.

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