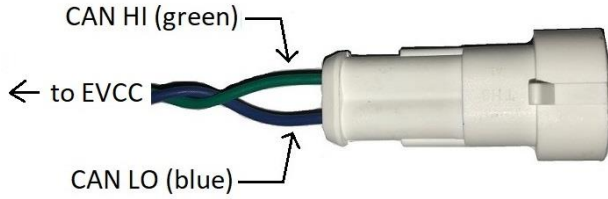


# TSM2500 and TSM1500 Connections

**Red** - Positive DC Out  
**Black** - Negative DC Out



SB50 Connector

**Note:** See page 2 for canbus termination.  
 CAN Signal wires above are only used for CAN enabled chargers. Not used with the 48v "Non-CAN" charger.

**For 110V**

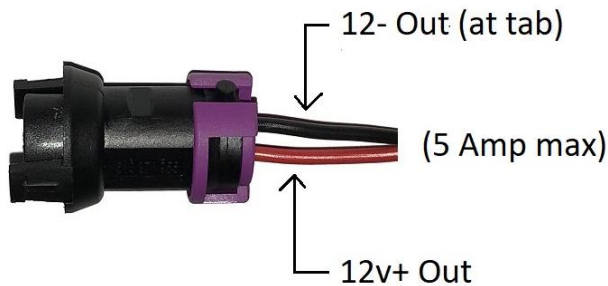


**Yellow/Green** - Ground Wire  
**Blue** - Neutral Wire  
**Brown** - Live Wire

**For 220V**



**Yellow/Green** - Ground Wire  
**Blue** - Live Wire  
**Brown** - Live Wire



**Optional Charger 12v Output Connector**  
 - later models only



**Charge Indicator Connector**

**Note:** Other connectors in the charger harness are non-essential and may remain disconnected

## Charger Canbus Termination

Proper canbus termination requires a 120-Ohm resistor at each *end* of a canbus network. For systems with a controller (EVCC or MCU) and charger only, a resistor is installed between terminals at the charger canbus connector (see below). If multiple chargers are used, install at only one of the connectors. If an EVCC and BMSC are used together, then both can be configured for internal terminations, and no external resistor is required. If canbus wiring to another device (like a display) is longer than to the charger, then install the termination resistor at the most distant device.

The termination resistor is crimped with the canbus wires to connector pins as shown below, then soldered. A piece of 1/8 inch shrink tubing is installed over the resistor side to prevent shorts. A larger piece of shrink tubing covers the wires and resistor next to the connector.

Insert the finished terminals into the connector with green and blue wires oriented as shown below (green wire on top), and they will click into place. A tug on the wires should not remove them. Lock the pins in place by inserting the red retaining clip into the connector end.

The images below show the canbus termination resistor placement and completed assembly with retaining clip.

