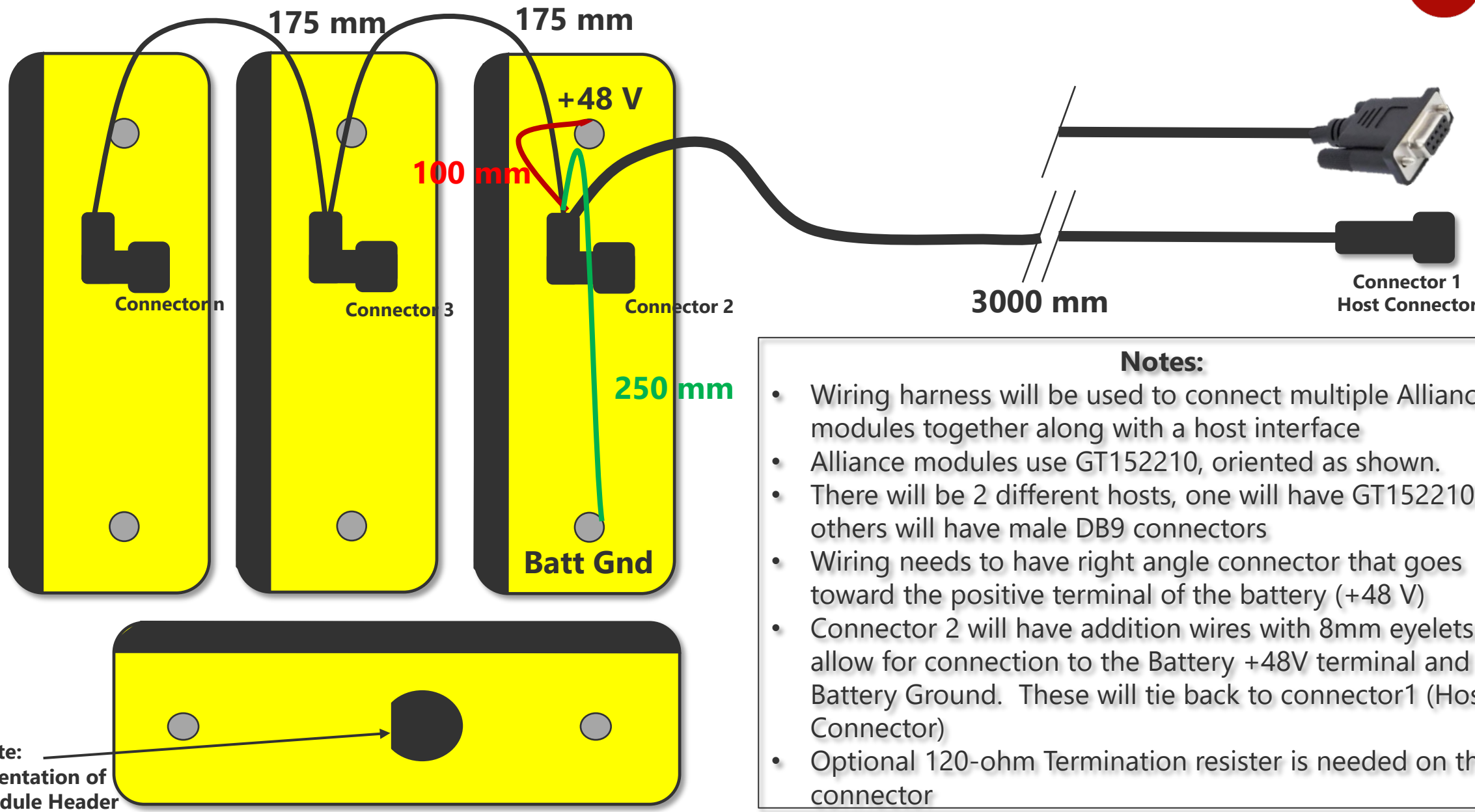
OUR ENERGY IS ELECTRIC.

Alliance Low Voltage Wiring

Alliance Module Low Voltage Wiring



Notes:

- Wiring harness will be used to connect multiple Alliance modules together along with a host interface
- Alliance modules use GT152210, oriented as shown.
- There will be 2 different hosts, one will have GT152210, others will have male DB9 connectors
- Wiring needs to have right angle connector that goes toward the positive terminal of the battery (+48 V)
- Connector 2 will have addition wires with 8mm eyelets that allow for connection to the Battery +48V terminal and the Battery Ground. These will tie back to connector1 (Host Connector)
- Optional 120-ohm Termination resister is needed on the n-connector

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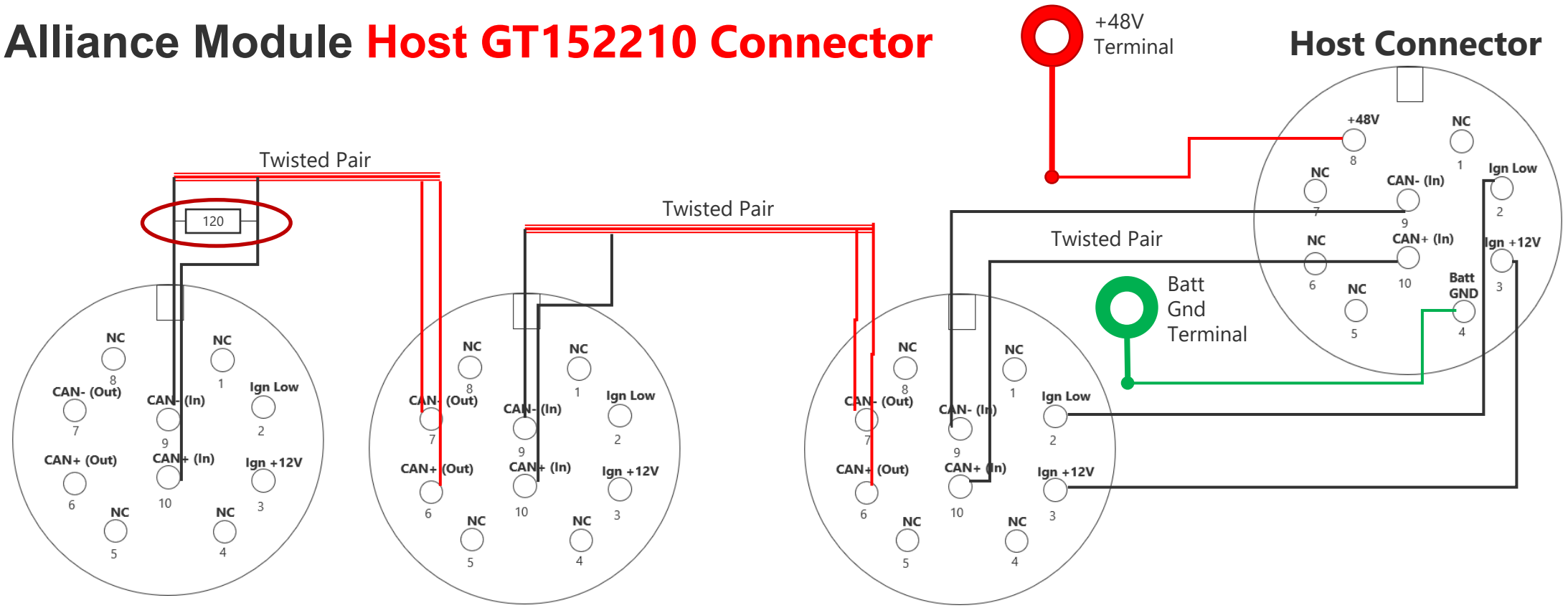
Alliance Module Host GT152210 Connector



Module n
Connector n

Module 2
Connector 3

Module 1
Connector 2

- +48V and Batt Gnd will require 8 mm eyelets.
- +48V that will get splice from the terminal wire to the +48V wire that goes to the host connector
- Batt Gnd that will get splice from the terminal wire to the Batt Gnd wire that goes to the host connector
- 120 ohm termination resister is required in the last connector (n)

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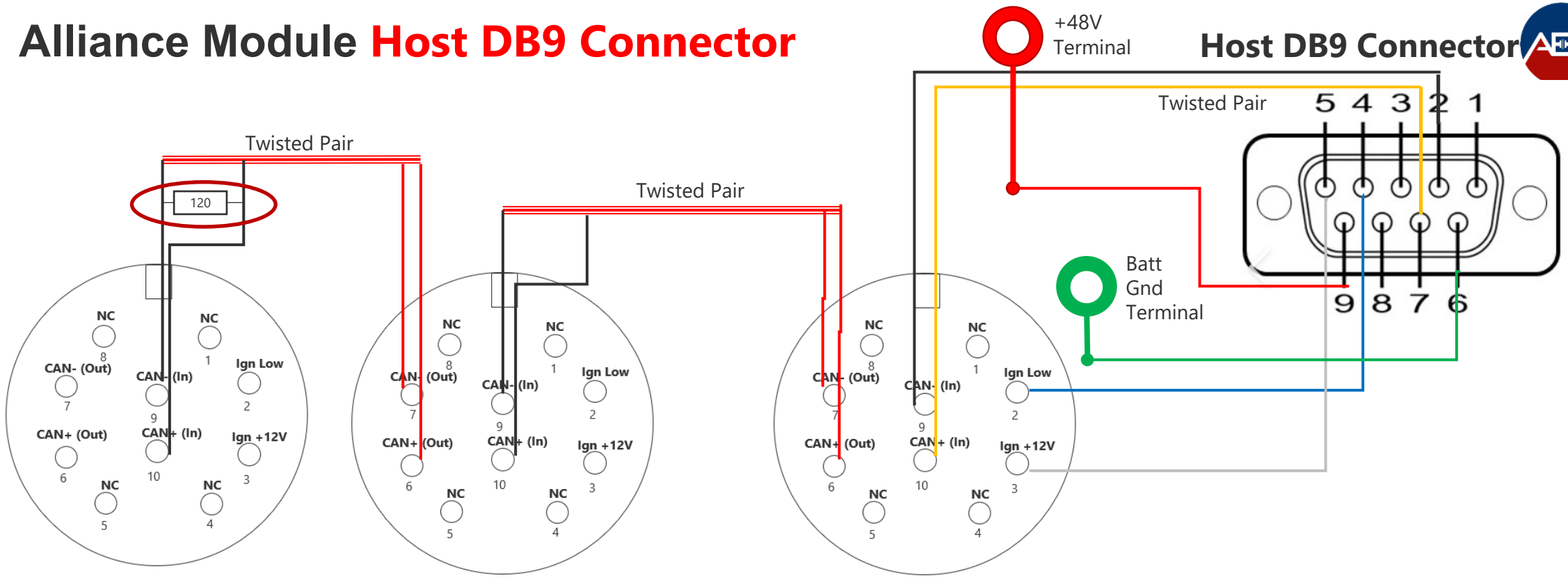
Alliance Module Host DB9 Connector



Module n
Connector n

Module 2
Connector 3

Module 1
Connector 2

- +48V and Batt Gnd will require 8 mm eyelets.
- +48V that will get splice from the terminal wire to the +48V wire that goes to the host connector
- Batt Gnd that will get splice from the terminal wire to the Batt Gnd wire that goes to the host connector
- 120 ohm termination resister is required in the last connector (4)

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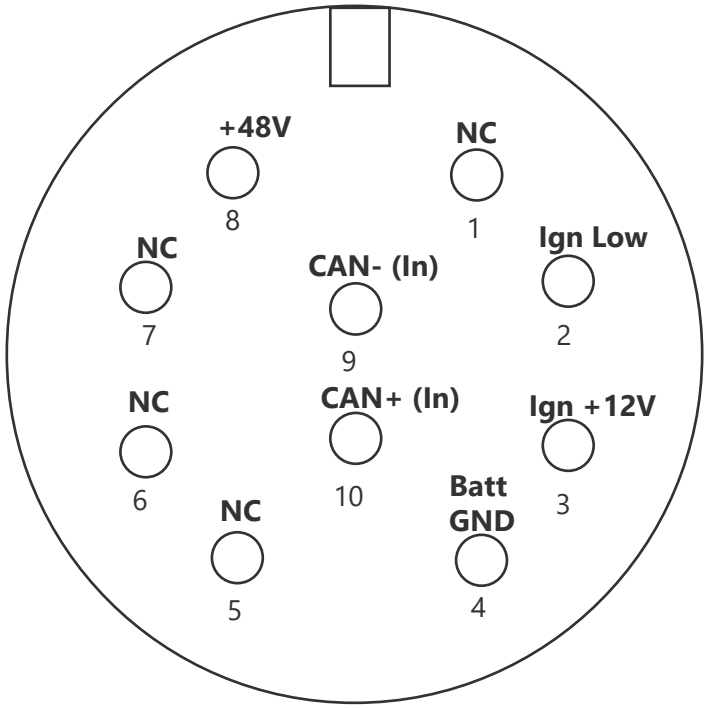
Host Connector Pinout
(Connectors 1)



Female

All wires 22 AWG

Pin	Name	Color	Function
1	N/C	Brown	No Connect
2	Ign Low	Blue	Ignition Active when switched to ground (should be N/C if not used)
3	Ign +12V	White	Ignition Active when 12V high (should be N/C if not used)
4	Batt Gnd	Green	Battery Ground
5	N/C	Yellow	No Connect
6	CAN+ (Out)	Grey	CAN High Bus Line (Twisted pair with CAN- Out)
7	CAN- (Out)	Purple	CAN High Bus Line (Twisted pair with CAN+ Out)
8	+48V	Red	48 Volts
9	CAN- (in)	Black	CAN High Bus Line (Twisted pair with CAN+ In)
10	CAN+ (in)	Orange	CAN High Bus Line (Twisted pair with CAN- In)

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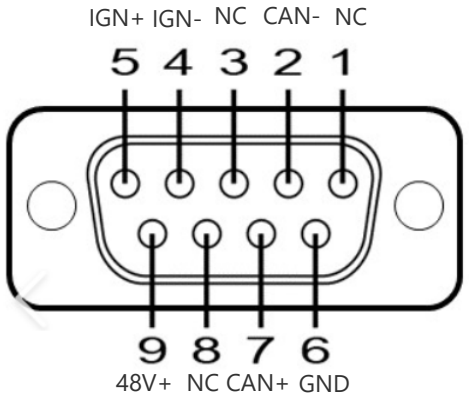
Host DB9 Connector Pinout



Pin	Name	Color	Function
1	N/C		No Connect
2	CAN- (in)	Org/Wht	CAN High Bus Line (Twisted pair with CAN+ In)
3	N/C		No Connect
4	Ign Low	Blue	Ignition Active when switched to ground
5	Ign +12V	Bl/wht	Ignition Active when 12V high (should be N/C if not used)
6	Batt Gnd	Green	Battery Ground
7	CAN+ (in)	Orange	CAN High Bus Line (Twisted pair with CAN- In)
8	N/C		No Connect
9	48V	Red	B+

Female

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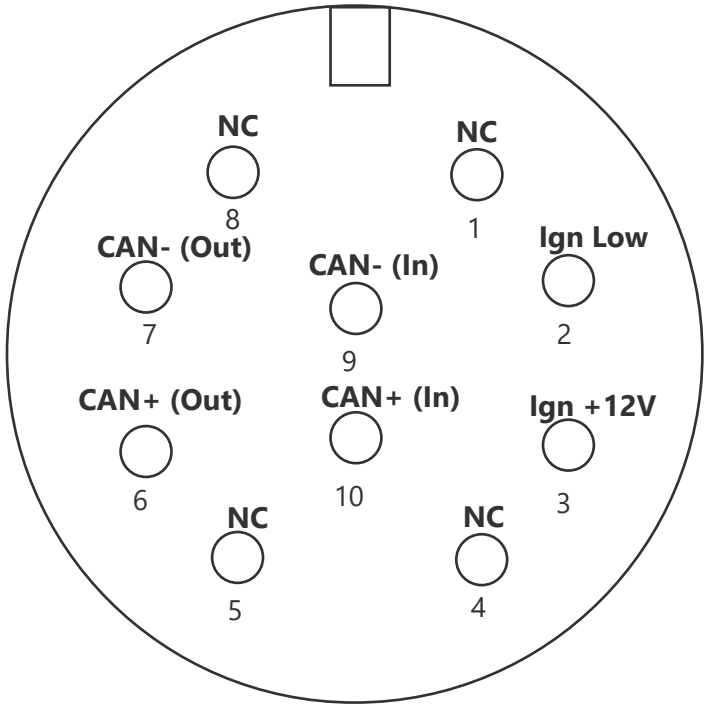
Alliance Low Voltage Connector Pinout
(Connectors 2, 3 and n)



Female

All wires 22 AWG

Pin	Name	Color	Function
1	N/C	Brown	No Connect
2	Ign Low	Blue	Ignition Active when switched to ground (should be N/C if not used)
3	Ign +12V	White	Ignition Active when 12V high (should be N/C if not used)
4	N/C	Green	No Connect
5	N/C	Yellow	No Connect
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7	CAN- (Out)	Purple	CAN High Bus Line (Twisted pair with CAN+ Out)
8	NC	Red	No Connect
9	CAN- (in)	Black	CAN High Bus Line (Twisted pair with CAN+ In)
10	CAN+ (in)	Orange	CAN High Bus Line (Twisted pair with CAN- In)

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