

## RJ 4 Telephone Plug Connector Wiring

For Applications where Dry Contact wiring is required for motor control or for linking R-1R Control Boards one to another.

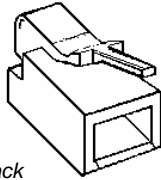


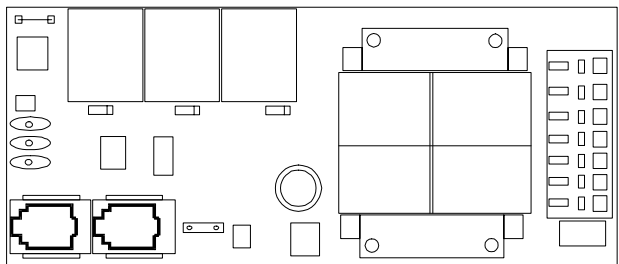
Figure 1. RJ 4 Jack

The standard RJ 4 Telephone jack is the same type that is used by the telephone industry in connecting a telephone unit to the handset. It is a four-position jack (4P x 4C) and fits into a standard 4-pin jack receptacle. It is smaller than the RJ 11 telephone jack that connects the telephone unit to the wall receptacle.

Control wiring for Am-Source products (except for direct 110-volt control wiring and when using the MCB.i) and motor-link control wiring is achieved by means of standard, 4-conductor flat telephone wire. However, other wiring may be substituted, example: CAT 5 wire, round telephone wire, etc.

Please note that the wiring diagram shown below is for the R-1R only. While still using an RJ 4 jack for its connection, the pin out for the 1103HD Drapery Motor is different, as is the fact that while the R-1R pin out does not flip the 1103HD pin out does. Please refer to the 1103HD section for wiring details.

The RJ 4 ports on the R-1R are in parallel. This allows options in how they can be used. In *option 1*, activation from two different controllers can be used. In this case the main command can come from an automation system with the second command coming from a switch override. If the automation were to malfunction operation through the switch override would still be possible. *Option 2* allows for one switch or relay to operate several R-1R relays by linking each board together using both of the parallel ports.



(Example using Am-Source R1-R Relay Board)

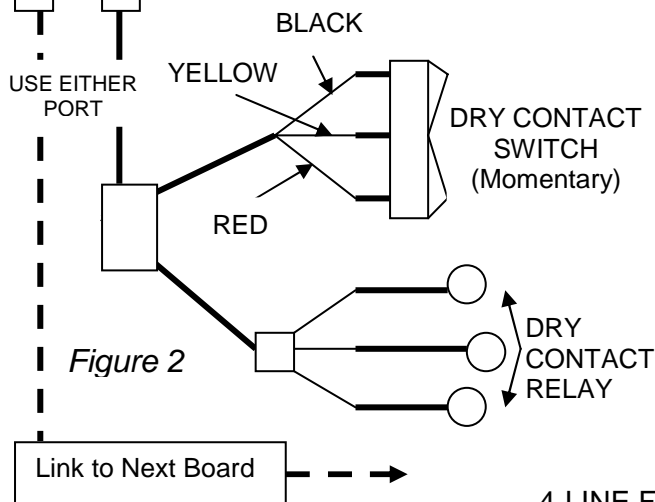
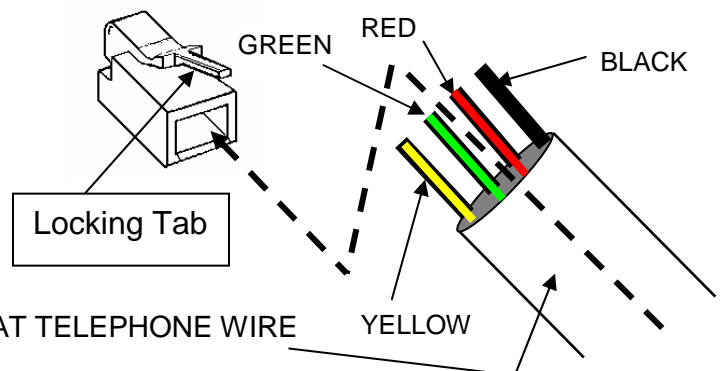


Figure 2

### CONNECTING WIRE INTO RJ 4 JACK CRIMP CONNECTION

Using the standard RJ 4 crimping tool (Available from Am-Source) ALL Am-Source control wire and link wire configurations require the following wire connections:

1. Strip the outer jacket of the telephone wire about ¼ inch, exposing the four color leads: yellow, green, red, black.
2. Position the RJ 4 jack with the locking tab “up” and the jack wire opening toward you.
3. With the yellow lead on your left, insert the four wires into the jack (tab up) and crimp securely into place.



**For more information contact:**

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