

## Wiring Specifications for EE459 Sprinkler Valve Simulator

Connection to the sprinkler valve solenoids on the simulator board is through a 4-conductor plug. Your board should use the male plug and the simulator board with the valves uses the mating female receptacle. Use the following wiring pattern for the plug.

**Pin 1:** Valve 1

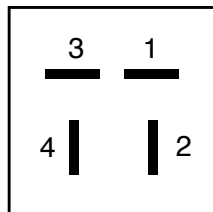
**Pin 2:** Valve 2

**Pin 3:** not connected

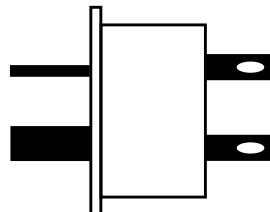
**Pin 4:** Common

Connecting together the common and the valve 1 circuit (pins 4 and 1) will cause valve 1 to energize. Connecting together the common and the valve 2 circuit (pins 4 and 2) will cause valve 2 to energize.

Male plug - contacts



Male plug - side view



Male plug - solder points

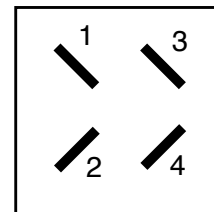


Figure 1: 4-Conductor Cinch-Jones plug

**Warning:** The connections from the simulator board carry 24 Volt AC power. Do not connect these directly to any logic elements on your project board. The connections to activate the valves must be made through a relay, triac or other device that isolates the 24 VAC power from the digital circuit.