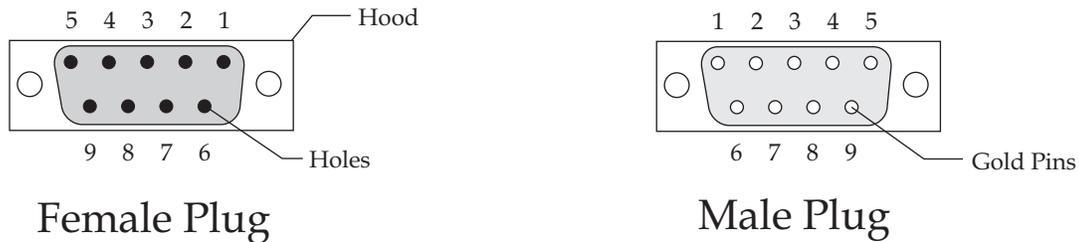


# Remote Cable Testing



## Testing Cable Not Permanently Installed

If your cable is free and you can bring the ends together, you can test for both continuity and short circuits. You will need a multimeter with continuity capability. You will also need a small piece of wire that fits snugly into the female sockets of the plug. You will need this to establish a connection from the plug to the multimeter probe.

Using the above diagram, simply test pin number for pin number between male and female plugs. You should get a beep or show near zero ohms. A small number of ohms may show due to the length of wire, typically 1 or 2 ohms on 20 feet of cable.

Another important test is to check for continuity from hood to hood. Bad connections here can create readings that are off. See next page for servicing this fault.

To test for shorts, place the multimeter probes on adjacent pins on the male plug. (Like between 1 & 2 also 1 & 6, 2 & 3 also 2 & 7, and so on) Also check between all pins and the metal hood.

Any deviation of the desirable results cause erratic readings or lack of functions and will need to be serviced by Altalab.

## Testing Cable Installed in Trailer

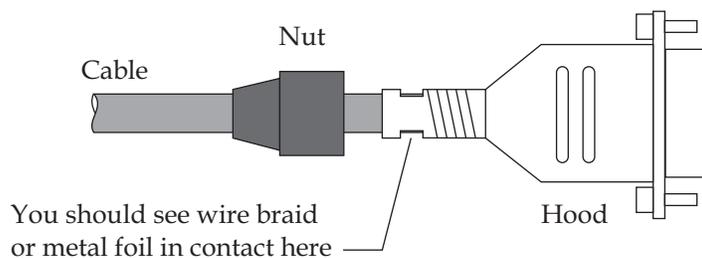
When the cable cannot be removed, such as when it was fished through the walls of a trailer, a different test must be followed for continuity. Testing for shorts remains the same as described for free cable. Just make sure both ends are unplugged and test from the male end so you need not supply the small wire required for the female end.

To check for continuity you will have to use the metal hood and shield wire as a return path for the individual male pins. For this procedure it would be best to have a helper on the female end of the cable. The female end is located at the remote sensor not the console.

Have your helper inset a small wire into socket 1 of the plug and hold the other end on the metal hood of the same plug. Meanwhile, you should indicate continuity or near zero ohms place your multimeter probes on the metal hood and onto pin 1. You should indicate continuity or near zero ohms. If you do not the hoods and the internal shield wire may have a faulty connection. See next page on servicing this fault Do this procedure on all nine pins.

## Servicing Hood and Shield Wire Ground Path

Your weatherstation uses the metal plug hoods and the cable shield wire as an additional ground return path. If this connection is faulty the readings may not be accurate. To visually check connection, unscrew black plastic nut where the cable meets the plug and slide it away. (as shown below) You should see either wire braid and/or metal foil underneath and in contact with the hood's metal threaded pieces. If in doubt you may push the wire around with a small screwdriver or prick until you are satisfied of good contact. Screw nut back onto hood and retest for continuity.



## Reference Table for REM3 Cable Pinout

For advanced diagnosis

Pin 1	Humidity sensor signal
Pin 2	Wind Direction signal
Pin 3	Wind Speed signal
Pin 4	12 vdc supply
Pin 5	Ambient Light signal
Pin 6	Temperature signal
Pin 8	8 vdc supply
Pin 9	Ground
Hood	Ground

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