

Before connecting your thermocouple connectors to the sensor cable and extension cable, please check your inventory. You should have the following:

- 1 set (1 male and 1 female) black 3-prong subminiature thermocouple connectors (J-type)
- 1 set (1 male and 1 female) yellow 3-prong subminiature thermocouple connectors (K-type)
- 2 cable clamps with additional extra long screws

Your thermocouple connector kit is made up of black and yellow segments. One segment is for the power supply, and the other is for the thermocouple output. Note that the wiring is different for J-type and K-type thermocouple outputs. Follow the instructions below carefully. Use only the section that pertains to your instrument's thermocouple type.

WARNING

Incorrect wiring will cause severe, permanent damage to the sensor.
Pay close attention to the appropriate wiring diagram (J-type or K-type).
DO NOT CONFUSE OUTPUT WIRES WITH POWER SUPPLY WIRES.

J-TYPE THERMOCOUPLE WIRING

If you have J-type thermocouple outputs, complete the following steps:

1. Remove the long screws that hold the cable clamps on the male and female connectors. (Refer to Figures 1 and 2.) Note that the connector terminals are clearly marked for negative (-), positive (+), and ground (G).

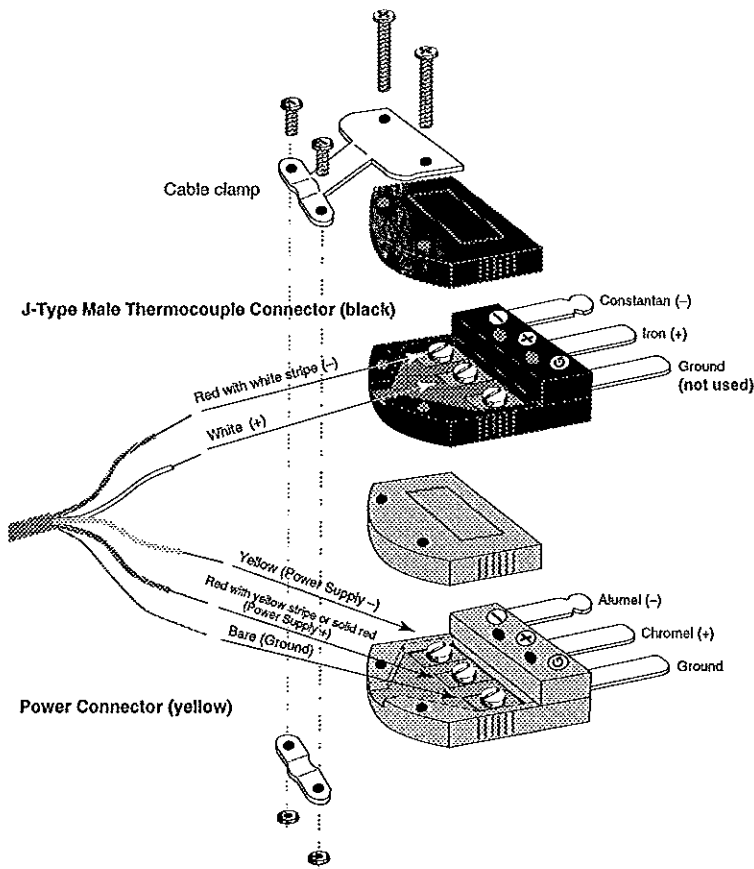


Figure 1: J-Type Male Connector

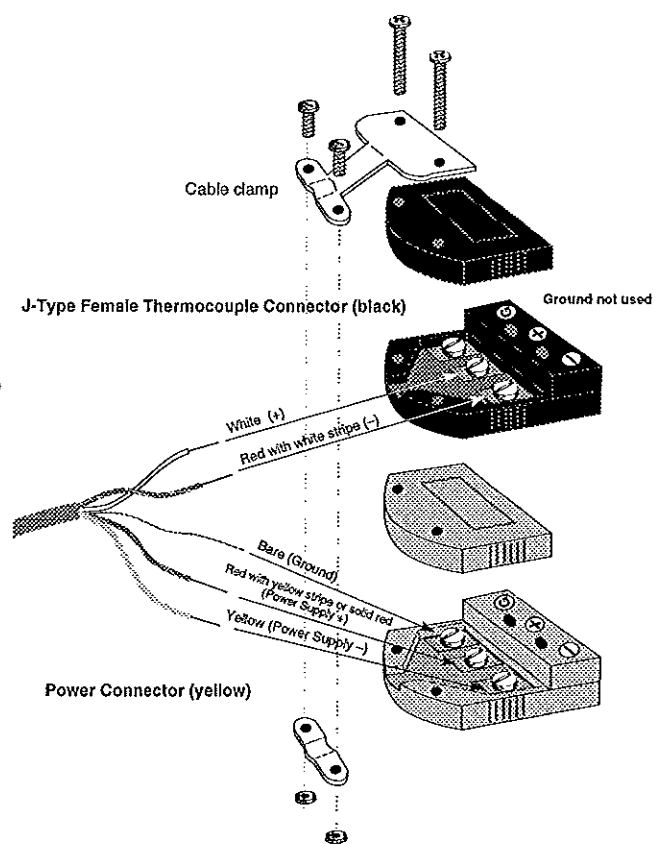


Figure 2: J-Type Female Connector

2. Take off the connector caps. This exposes the wiring terminals.
3. On the black male and female connectors, which are for the J-type thermocouple output wires, connect the red wire with the white stripe to the negative (-) terminals and the white wire to the positive (+) terminals as shown in Figures 1 and 2. **Note that the female terminals are the reverse of the male terminals.**
4. On the yellow male and female connectors, which are for the power wires, connect the yellow wire to the negative (-) terminal, the red with yellow stripe (or solid red) wire to the positive (+) terminal, and the bare ground wire to the ground (G) terminal.
5. Replace the connector caps and cable clamps. Secure the cable clamps and the black and yellow connectors together with the long screws.

This completes the J-Type thermocouple connector wiring instructions. The connectors are ready to be plugged together.

K-TYPE THERMOCOUPLE WIRING

If you have K-type thermocouple outputs, complete the following steps:

1. Remove the long screws that hold the cable clamps on the male and female connectors. (Refer to Figures 3 and 4) **Note that the connector terminals are clearly marked for negative (-), positive (+), and ground (G).**

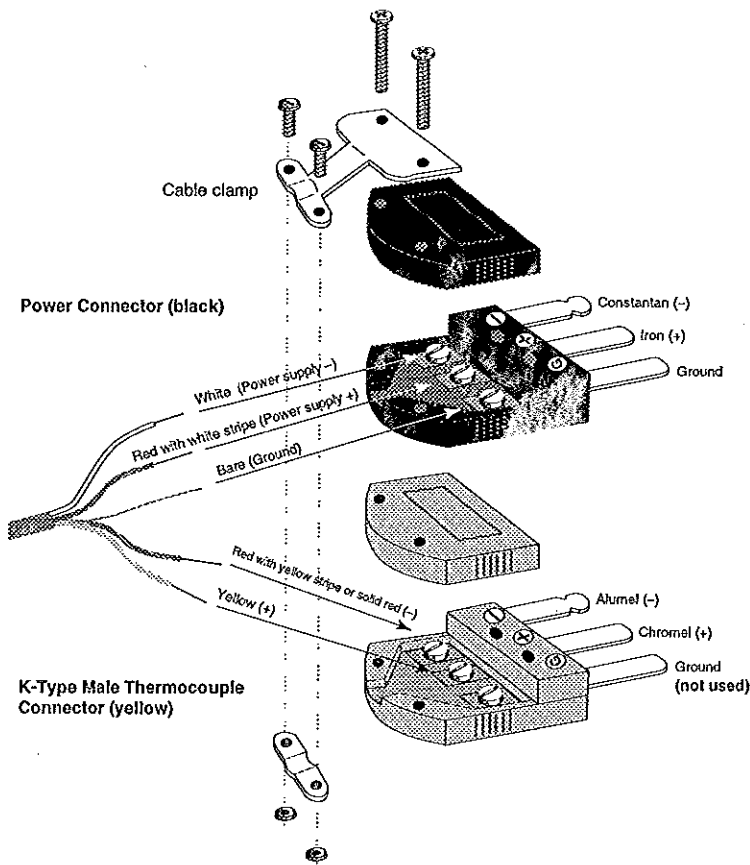


Figure 3: K-Type Male Connector

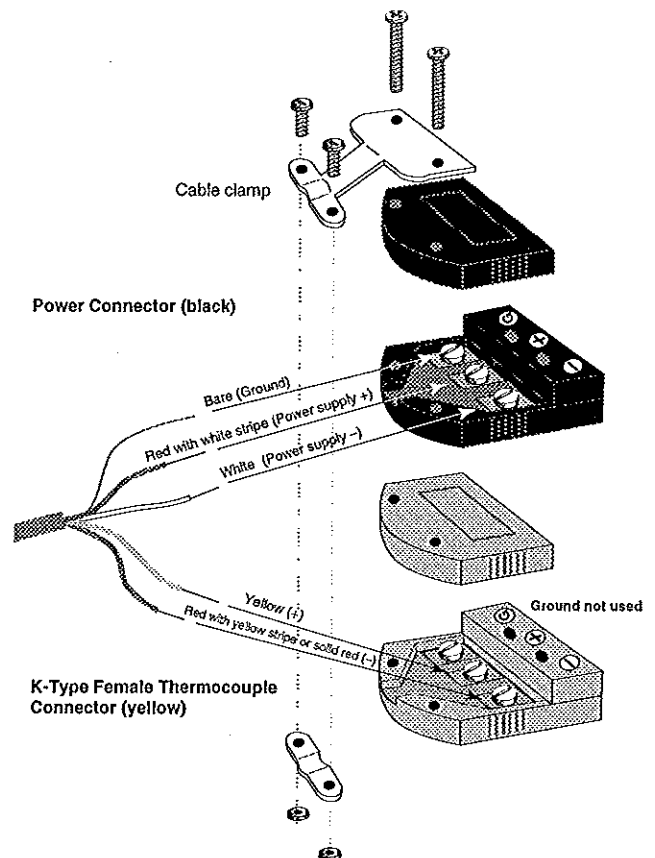


Figure 4: K-Type Female Connector

2. Take off the connector caps. This exposes the wiring terminals.
3. On the yellow male and female connectors, which are for the K-type thermocouple output wires, connect the red wire with the yellow stripe (or solid red wire) to the negative (-) terminals and the yellow wire to the positive (+) terminals as shown in Figures 3 and 4. **Note that the female terminals are the reverse of the male terminals.**
4. On the black male and female connectors, which are for the power wires, connect the white wire to the negative (-) terminal, the red wire with the white stripe to the positive (+) terminal, and the bare ground wire to the ground (G) terminal.
5. Replace the connector caps and cable clamps. Secure the cable clamps and the black and yellow connectors together with the long screws.

This completes the K-Type thermocouple connector wiring instructions. The connectors are ready to be plugged together.