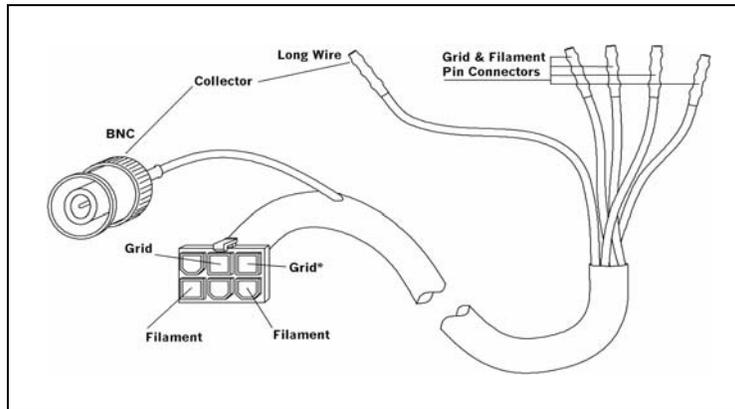


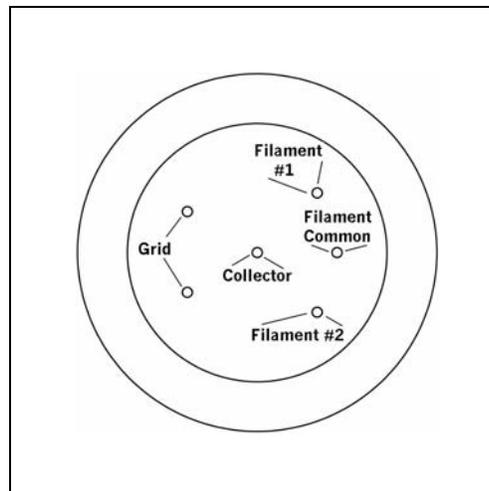
## Pin Connections for Nude Ion Gauges

The ion gauge cable that connects to a nude ion gauge has five connectors on the end that connects to the ion gauge. Figure 2-9 shows this cable. A label on the cable tells which connectors attach to which pins on the ion gauge. As an alternative, you can trace the color of the wires from the controller end to the gauge end to determine the proper connections.

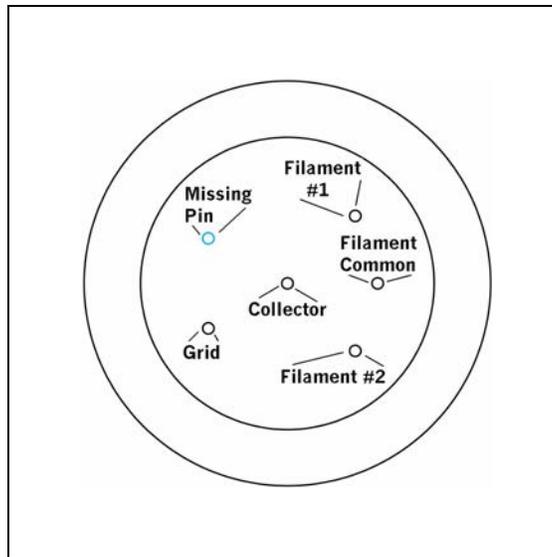


**Figure 2-9. Universal gauge cable for nude ion gauge**

Figure 2-10 shows the pin arrangement of a standard 580 nude ion gauge, as viewed from the base end. Figure 2-11 shows the pin arrangement for a UHV-24 (ultra-high-vacuum) nude ion gauge. The two ion gauges are similar, except that the UHV-24 gauge has only one grid pin. (The grid conductor of the ion gauge cable that is marked with an asterisk (\*) on the controller end of the cable in figure 2-9 is not used with a UHV-24 nude ion gauge.)



**Figure 2-10. Pins of BAC nude ion gauge, viewed from base**



**Figure 2-11. Pins of UHV-24 nude ion gauge, viewed from base**

Only one of the numbered filament pins of a two-filament ion gauge is connected at any one time. If one of the filaments burns out, you can change to the other filament without having to replace the ion gauge. For example, if filament #1 burns out, you would disconnect the wire from the filament #1 pin and connect it to the filament #2 pin.

Connect the cable connectors to the appropriate pins on the base of the ion gauge. Make sure that one filament lead connects to the common filament pin, and the other filament lead connects to one of the numbered filament pins. Push each connector onto its pin until it seats firmly.



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