

Analog Output Signal Connections

This section describes how to make connections for voltage and current outputs. The NI 6704 has both voltage and current outputs. The NI 6703 has voltage outputs only. A 68-pin cable such as the SH68-68-D1 cable is required. Figure 2-2 shows how to connect the voltage channel as a voltage output.

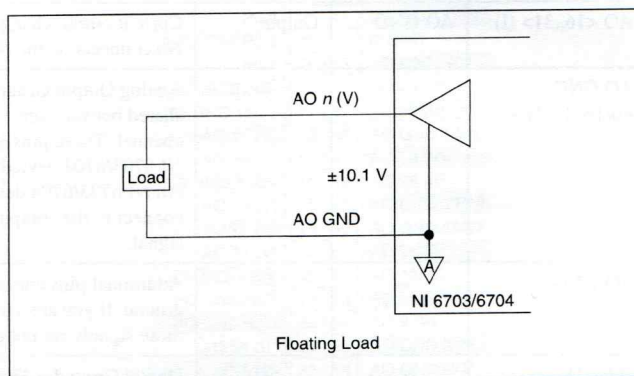


Figure 2-2. Voltage Output Connections

Voltage Output

You can connect a floating load to your NI 6703/6704 device at the voltage output channel.



Caution Because NI 6703/6704 devices are not electrically isolated from high voltages, a load with high common-mode voltages can damage the devices. National Instruments is not liable for any damages resulting from any such signal connections.

The NI 6703/6704 device has a bipolar voltage range of -10.1 to $+10.1$ V. Maximum load current is ± 10 mA for 16-bit linearity.

Power-on State

All voltage outputs are at their user-defined values to full accuracy within 1 s of power-on board reset. Before this time, the voltage outputs can float to unspecified values. Take this behavior into account when connecting external devices to the NI 6703/6704.