

Signal Connection Descriptions

Signal Name	Reference	Direction	Description
P0.<0..7>	D GND	Input or Output	Digital I/O lines—Line 7 is the MSB and Line 0 is the LSB.
AO <0..15> (V)	AO GND	Output	Voltage output channels.
AO <16..31> (I)	AO GND	Output	Current output channels on the NI 6704. No connects on the NI 6703.
AO GND <0/16..15/31>	—	—	Analog Output Grounds—Each ground pin is shared between one voltage and one current channel. These pins are connected to the NI 6703/6704 device analog ground plane. All NI 6703/6704 device ground planes connect to the computer system's ground signal.
AO GND	—	—	Additional pins connected to analog output ground. If you are using a SH68-68-D1 cable, these signals are not connected.
D GND	—	—	Digital Ground—These pins are connected to the NI 6703/6704 device digital ground plane. All NI 6703/6704 device ground planes connect to the computer system's ground signal.
+5 V	D GND	Output	+5 V—This pin is connected to the computer system's +5 VDC supply through a self-resetting circuit breaker.
RESERVED	—	—	Reserved for future use.