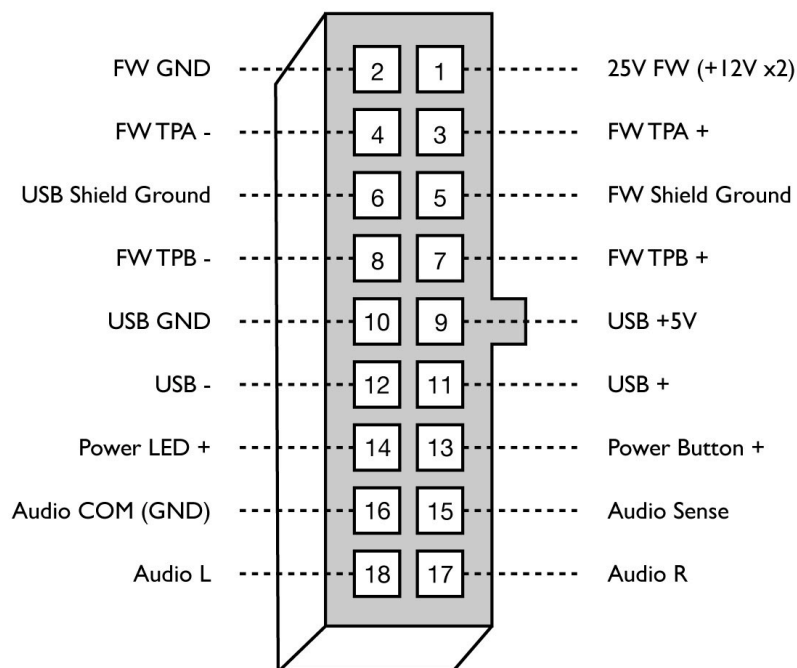


FRONT PANEL CONNECTOR looking at bottom of plug at end of cable (not socket on board)

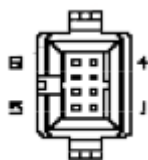
G5 Front Panel Connector



The Audio Sense is completely different than the ATX standard

	Headphones	Rear Speaker (no headphone jack present)
G5	Open Circuit	10K resistance to Ground
ATX	Ground	Open Circuit

FANS: The fans are really noisy on 12V, I run them on 5V using a simple controller.
Front Inlet Fan Connector

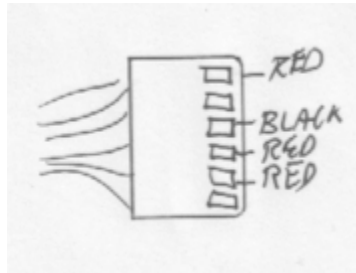


Pin# Signal

1 FAN CPU Cpu AF MOTOR	5 FAN CPU BF MOTOR
2 FAN CPU AF TACH	6 FAN CPU BF TACK
3 FAN GND	7 TEMP SENSE D-
4 FAN 12V	8 TEMP SENSE D+

Rear Fan Connector

Fan looking at connector with contact tabs visible, running both +V at +5V works fine



Full speed, very noisy:

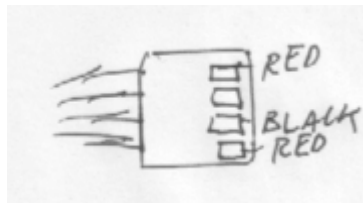
- 1 red : 5V fan B
- 2 n/a or black : RPM fan B
- 3 black : neutral both fans
- 4 yellow : 12V both fans
- 5 red : 5V fan A
- 6 n/a or black : RPM fan A

Quieter use:

- 1 red : 5V fan B
- 2 n/a or black : RPM fan B
- 3 black : neutral both fans
- 4 red : 5V both fans
- 5 red : 5V fan A
- 6 n/a or black : RPM fan A

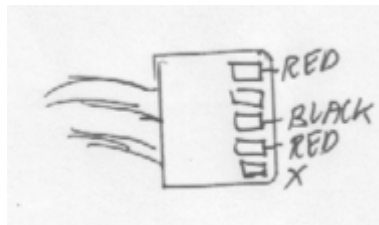
Drive Tray Fan Connector

Fan looking at connector with contact tabs visible, running both +V at +5V works fine



- 1 yellow: 12V fan OR red for 5V
- 2 n/a : RPM fan
- 3 black : gnd fan
- 4 red : 5V fan

Blower looking at connector with contact tabs visible....5V is quieter

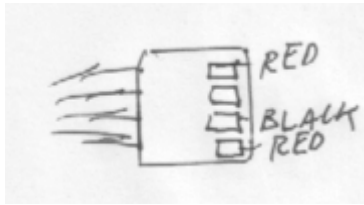


- 1 yellow: 12V blower OR red for 5V
- 2 n/a : RPM blower
- 3 black : gnd blower
- 4 red : 5V blower

5 no pin present

Speaker Fan Connector

Blower looking at connector with contact tabs visible.....again 5V is quieter



1 yellow: 12V fan OR red for 5V

2 n/a : RPM fan

3 black : gnd fan

4 red : 5V fan

SATA Power Connection using Original Drive Bay Power Cable

If your PSU doesn't have long enough SATA power wires, you can reuse the original G5 ones. This requires a bit of care as Apple used all black wiring, double check before you plug in a new drive, you might want to first test it with an old SATA drive...there are lots of 40 and 80 GB ones lying about.

SATA power connectors have 15 pins, counting from the end with the right angle tab.



Cable view of connector

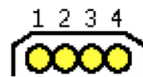
1/2/3 3.3 V not used

4/5/6 black: gnd

7/8/9 red: 5V

10/11/12 black: gnd

13/14/15 yellow: 12V



The PATA end is color code at the power supply end

1 Yellow: 12V

2 Black: gnd

3 Black: gnd

4 Red: 5V

Sources: Apple G5 service manual and various InsanelyMac posts, confirmed using ONLY 5V on my workbench, a G5 with fans running full speed....sounds as if it is going to take off.