24P IDE Connector

CN1
B−3102R24P−A000

Pin		Pin	
E Motor #1	1	2	E Motor #2
E Motor #3	3	4	E Motor #4
Fan+	5	6	Fan−
−24V / Heater−	7	8	Heater−
+24V	9	10	Heater+
Heater+	11	12	
Part Cooling Fan+	13	14	Part Cooling Fan−
Probe #1	15	16	Probe #2
Probe #3	17	18	Probe #4
Probe #5	19	20	Empty DET #1
Empty DET #2	21	22	Empty DET #3
Termistor−	23	24	Thermistor+

Molex PicoBlade 4−Pin

CN4
HC−1.25−4PWT

GND

E Motor #1	1
E Motor #2	2
E Motor #3	3
E Motor #4	4

GND

Filament Extruder Motor

Molex PicoBlade 2−Pin

CN7
HC−1.25−2PWT

GND

| Thermistor+ | 2 |
| Termistor− | 1 |

GND

Hotend Thermistor

Molex PicoBlade 5−Pin

CN5
HC−1.25−5PWT

PWR_FLAG
GND
GND
+5V

Probe #1
Probe #2

Probe #3	3
Probe #4	4
Probe #5	5

GND

Inductive Distance Probe

Molex PicoBlade 2−Pin

CN2
HC−1.25−2PWT

GND

| Part Cooling Fan− | 2 |
| Part Cooling Fan+ | 1 |

GND

Part Cooling Fan

Molex PicoBlade 2−Pin

CN8
HC−1.25−2PWT

GND

| Fan− | 2 |
| Fan+ | 1 |

GND

Coolend Fan

JST PH 2.0 2−Pin

CN6
X2011WRS−02A−9TSN

GND

| Heater− | 1 |
| HEATER+_UNFUSED | 2 |

GND

Cartridge Heater

F1
SMD1206−400−6V

Heater+ 1 — 2 HEATER+_UNFUSED

HX 2.54MM−2P WZ
U1

| 2 | HEATER+_UNFUSED |
| 1 | Heater− |

Molex PicoBlade 3−Pin

CN3
HC−1.25−3PWT

GND

Empty DET #1	1
Empty DET #2	2
Empty DET #3	3

GND

Empty, unused 3−Pin port. May be used for Filament Runout Sensor

DEBUG

PWR_FLAG ◇— GND

GND
TP1
GND_PROBE

HEATER+_UNFUSED —
TP2
HEATER_PROBE

+5V —
TP3
5V_PROBE