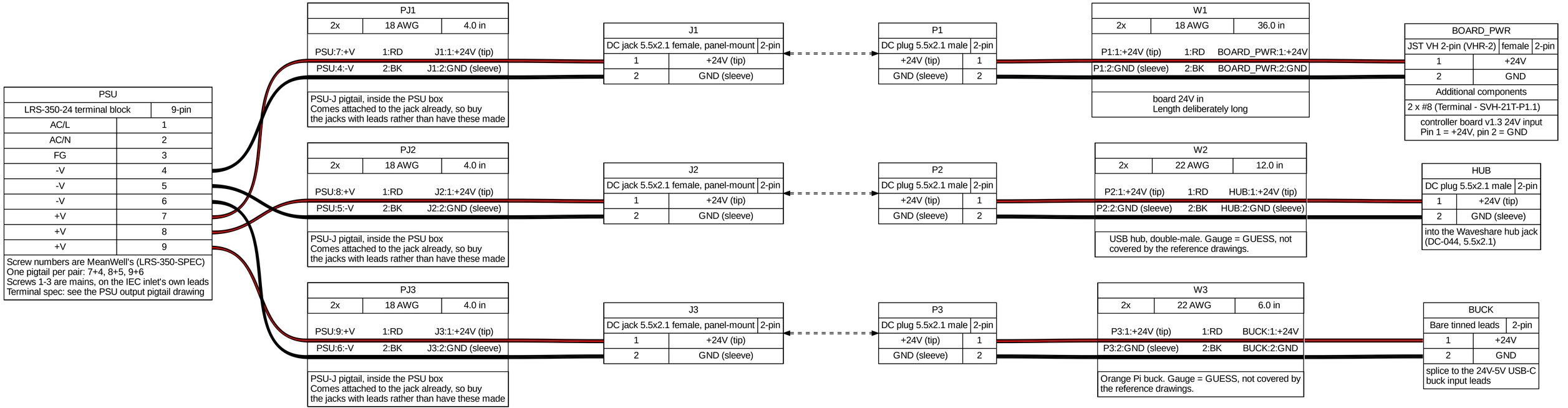
PSU
LRS-350-24 terminal block
9-pin
AC/L 1
AC/N 2
FG 3
-V 4
-V 5
-V 6
+V 7
+V 8
+V 9
Screw numbers are MeanWell's (LRS-350-SPEC)
One pigtail per pair: 7+4, 8+5, 9+6
Screws 1-3 are mains, on the IEC inlet's own leads
Terminal spec: see the PSU output pigtail drawing
PJ1
2x 18 AWG 4.0 in
PSU:7:+V 1:RD J1:1:+24V (tip)
PSU:4:-V 2:BK J1:2:GND (sleeve)
PSU-J pigtail, inside the PSU box
Comes attached to the jack already, so buy
the jacks with leads rather than have these made
PJ2
2x 18 AWG 4.0 in
PSU:8:+V 1:RD J2:1:+24V (tip)
PSU:5:-V 2:BK J2:2:GND (sleeve)
PSU-J pigtail, inside the PSU box
Comes attached to the jack already, so buy
the jacks with leads rather than have these made
PJ3
2x 18 AWG 4.0 in
PSU:9:+V 1:RD J3:1:+24V (tip)
PSU:6:-V 2:BK J3:2:GND (sleeve)
PSU-J pigtail, inside the PSU box
Comes attached to the jack already, so buy
the jacks with leads rather than have these made
J1
DC jack 5.5x2.1 female, panel-mount 2-pin
1 +24V (tip)
2 GND (sleeve)
J2
DC jack 5.5x2.1 female, panel-mount 2-pin
1 +24V (tip)
2 GND (sleeve)
J3
DC jack 5.5x2.1 female, panel-mount 2-pin
1 +24V (tip)
2 GND (sleeve)
P1
DC plug 5.5x2.1 male 2-pin
+24V (tip) 1
GND (sleeve) 2
P2
DC plug 5.5x2.1 male 2-pin
+24V (tip) 1
GND (sleeve) 2
P3
DC plug 5.5x2.1 male 2-pin
+24V (tip) 1
GND (sleeve) 2
W1
2x 18 AWG 36.0 in
P1:1:+24V (tip) 1:RD BOARD_PWR:1:+24V
P1:2:GND (sleeve) 2:BK BOARD_PWR:2:GND
board 24V in
Length deliberately long
W2
2x 22 AWG 12.0 in
P2:1:+24V (tip) 1:RD HUB:1:+24V (tip)
P2:2:GND (sleeve) 2:BK HUB:2:GND (sleeve)
USB hub, double-male. Gauge = GUESS, not
covered by the reference drawings.
W3
2x 22 AWG 6.0 in
P3:1:+24V (tip) 1:RD BUCK:1:+24V
P3:2:GND (sleeve) 2:BK BUCK:2:GND
Orange Pi buck. Gauge = GUESS, not covered by
the reference drawings.
BOARD_PWR
JST VH 2-pin (VHR-2) female 2-pin
1 +24V
2 GND
Additional components
2 x #8 (Terminal - SVH-21T-P1.1)
controller board v1.3 24V input
Pin 1 = +24V, pin 2 = GND
HUB
DC plug 5.5x2.1 male 2-pin
1 +24V (tip)
2 GND (sleeve)
into the Waveshare hub jack
(DC-044, 5.5x2.1)
BUCK
Bare tinned leads 2-pin
1 +24V
2 GND
splice to the 24V-5V USB-C
buck input leads