

# STAGE MOTOR CABLE

## MOTOR CABLE 1

## MOTOR CABLE 2

PIN	FROM:	FROM	ELECTRONICS RACK BREAKOUT BOARD	SPECTROGRAPH BREAKOUT BOARD	FUNCTION
A	-	AMP 1	J2-3	J2-3	-
B	MOTOR_CONN A	J13-20	J6-19	J2-5	MOTOR_CONN A
C	MOTOR D PHASE A	AMP 1	J5-1	J5-1	MOTOR D PHASE A
D	MOTOR D PHASE B	AMP 1	J5-2	J5-2	MOTOR D PHASE B
E	-	AMP 1	J5-3	J5-3	-
F	MOTOR_CONN D	J13-8	J6-22	J5-5	MOTOR_CONN D
G	MOTOR C PHASE A	AMP 1	J4-1	J4-1	MOTOR C PHASE A
H	MOTOR C PHASE B	AMP 1	J4-2	J4-2	MOTOR C PHASE B
J	nnn_SEC_LIM	J14-2	J6-24	J4-4	nnn_SEC_LIM
K	MOTOR B PHASE A	AMP 1	J3-1	J3-1	MOTOR B PHASE A
L	MOTOR B PHASE B	AMP 1	J3-2	J3-2	MOTOR B PHASE B
M	-	AMP 1	J3-3	J3-3	-
N	nnn_SEC_LIM	J14-6	J6-16	J3-4	nnn_SEC_LIM
P	MOTOR A PHASE A	AMP 1	J2-1	J2-1	MOTOR A PHASE A
R	MOTOR A PHASE B	AMP 1	J2-2	J2-2	MOTOR A PHASE B
S	nnn_SEC_LIM	J14-1	J6-18	J2-4	nnn_SEC_LIM
T	GND	J13-1	J6-7	J2-6 (TYP.)	GND
U	nnn_SEC_LIM	J14-7	J6-21	J5-4	nnn_SEC_LIM
V	CABLE_CONN	-	J6-23	-	CABLE_CONN
W	-	AMP 1	J4-3	J4-3	-
X	MOTOR_CONN C	J13-6	J6-25	J4-5	MOTOR_CONN C
Y	GND	-	J6-5	J3-6 (TYP.)	GND
Z	MOTOR_CONN B	J13-22	J3-15	J3-5	MOTOR_CONN B
a	GND	-	J6-2	J4-6 (TYP.)	GND
b	GND	-	J5-6 (TYP.)	J5-6 (TYP.)	GND
c	GND	-	J6-9	-	GND
d	GND	-	J6-3	-	GND

PIN	FROM:	FROM	ELECTRONICS RACK BREAKOUT BOARD	SPECTROGRAPH BREAKOUT BOARD	FUNCTION
A	-	AMP 2	J2-3	J2-3	-
B	MOTOR_CONN E	J13-29	J6-19	J2-5	MOTOR_CONN E
C	MOTOR H PHASE A	AMP 2	J5-1	J5-1	MOTOR H PHASE A
D	MOTOR H PHASE B	AMP 2	J5-2	J5-2	MOTOR H PHASE B
E	-	AMP 2	J5-3	J5-3	-
F	MOTOR_CONN H	J13-17	J6-22	J5-5	MOTOR_CONN H
G	MOTOR G PHASE A	AMP 2	J4-1	J4-1	MOTOR G PHASE A
H	MOTOR G PHASE B	AMP 2	J4-2	J4-2	MOTOR G PHASE B
J	2nd_LIM G	J14-4	J6-24	J4-4	2nd_LIM G
K	MOTOR F PHASE A	AMP 2	J3-1	J3-1	MOTOR F PHASE A
L	MOTOR F PHASE B	AMP 2	J3-2	J3-2	MOTOR F PHASE B
M	-	AMP 2	J3-3	J3-3	-
N	2nd_LIM F	J14-8	J6-16	J3-4	2nd_LIM F
P	MOTOR E PHASE A	AMP 2	J2-1	J2-1	MOTOR E PHASE A
R	MOTOR E PHASE B	AMP 2	J2-2	J2-2	MOTOR E PHASE B
S	2nd_LIM E	J14-3	J6-18	J2-4	2nd_LIM E
T	GND	J13-33	J6-7	J2-6 (TYP.)	GND
U	2nd_LIM H	J14-9	J6-21	J5-4	2nd_LIM H
V	CABLE_CONN	-	J6-23	-	CABLE_CONN
W	-	AMP 2	J4-3	J4-3	-
X	MOTOR_CONN G	J13-15	J6-25	J4-5	MOTOR_CONN G
Y	GND	-	J6-5	J3-6 (TYP.)	GND
Z	MOTOR_CONN F	J13-31	J3-15	J3-5	MOTOR_CONN F
a	GND	-	J6-2	J4-6 (TYP.)	GND
b	GND	-	J5-6 (TYP.)	J5-6 (TYP.)	GND
c	GND	-	J6-9	-	GND
d	GND	-	J6-3	-	GND

BOX MOUNT: MS3112E20-27S OR EQUIV.  
STRAIGHT PLUG: MS3126F20-27P OR EQUIV.

REVISIONS [http://loel.ucolick.org/manual/APF/schematics/APF\\_stage\\_cable\\_sh\\_2.pdf](http://loel.ucolick.org/manual/APF/schematics/APF_stage_cable_sh_2.pdf)

02-26-07 ADDED THIS SHEET FOR COMPLETENESS  
04-22-10 REMOVED LABELS FOR PHASE C (BRUSHLESS MOTORS ONLY). SWAPPED ELEC. RACK AND SPECTRO. COLUMNS.  
05-06-10 RENAMED VARIOUS SIGNALS FOR UNIFORMITY ON ALL SCHEMATICS

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		APF STAGE CABLES	
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