PSL Chassis			Left Rail					
Name	**Color**	**Rail**	**Module**	**Number**	**Channel**	**Type**	**Adapter**	**Pin**
Power								
24V (routed through relay 1)	violet	L	EK1101	0	24V	P	R/11	12
0V	gray	L	EK1101	0	0V	P	TBLOCK	–V
24V (routed through relay 1)	violet	L	EK1101	0	+	P	R/11	12
0V	gray	L	EK1101	0	–	P	TBLOCK	–V
24V (routed through relay 2)	violet	L	EK1101	10	24V	P	R/11	22
0V	gray	L	EK1101	10	0V	P	TBLOCK	–V
24V (routed through relay 2)	violet	L	EK1101	10	+	P	R/11	22
0V	gray	L	EK1101	10	–	P	TBLOCK	–V
24V	violet	L	CU1521	20	24V	P	TBLOCK	+V
0V	gray	L	CU1521	20	0V	P	TBLOCK	–V
24V (routed through relay 1)	violet	R	EL2612	11	12	P	9	P7
0V	gray		TBLOCK		0V	P	9	P8
24V (routed through relay 2)	violet	R	EL2612	11	22	P	10	P7
0V	gray		TBLOCK		0V	P	10	P8
24V (routed through relay 2)	violet	R	EL2612	11	22	P	11	P7
0V	gray		TBLOCK		0V	P	11	P8
24V (routed through relay 1)	violet	R	EL2612	11	12	P	12	P7
0V	gray		TBLOCK		0V	P	12	P8
Media Converter								
Input	fiber/MM	L	CU1521	20	X1	Comm.	front	IN
Output	CAT5	L	CU1521	20	X2	Comm.	R/0	X1
Coupler								
Output	CAT5	L	EK1101	0				
Rotation Stages IO/PSL								
Encoder A: A (IO)	brown	L	EL7342	1	A/top	BI	12	P4
Encoder A: B (IO)	brown	L	EL7342	1	B/top	BI	12	P5
Encoder B: A (Spare)	brown	L	EL7342	1	A/below	BI	9	P4
Encoder B: B (Spare)	brown	L	EL7342	1	B/below	BI	9	P5
Input A (IO)	brown	L	EL7342	1	I1	BI	12	P3
Input B (Spare)	brown	L	EL7342	1	I2	BI	9	P3
Motor A1(*) (IO)	violet	L	EL7342	2	A1	P	12	PWR/S
Motor A2(*) (IO)	gray	L	EL7342	2	A2	P	12	PWR/P
Motor B1(*) (Spare)	violet	L	EL7342	2	B1	P	9	PWR/S
Motor B2(*) (Spare)	gray	L	EL7342	2	B2	P	9	PWR/P
24V(*)	violet	L	EL7342	2	+	P	L/12	+
0V(*)	gray	L	EL7342	2	–	P	L/12	–
Interlock Mon (IO)	brown	L	EL1094	3	I1	BI	12	P9
Interlock Mon (Spare)	brown	L	EL1094	3	I2	BI	9	P9
(empty)	brown	L	EL1094	3	I3	BI		
(empty)	brown	L	EL1094	3	I4	BI		
Coupler								
Output	CAT5	L	EK1101	10				
Rotation Stages TCS								
Encoder A: A (TCSX)	brown	L	EL7342	11	A/top	BI	10	P4
Encoder A: B (TCSX)	brown	L	EL7342	11	B/top	BI	10	P5
Encoder B: A (TCSY)	brown	L	EL7342	11	A/below	BI	11	P4
Encoder B: B (TCSY)	brown	L	EL7342	11	B/below	BI	11	P5
Input A (TCSX)	brown	L	EL7342	11	I1	BI	10	P3
Input B (TCSY)	brown	L	EL7342	11	I2	BI	11	P3
Motor A1(*) (TCSX)	violet	L	EL7342	12	A1	P	10	PWR/S
Motor A2(*) (TCSX)	gray	L	EL7342	12	A2	P	10	PWR/P
Motor B1(*) (TCSY)	violet	L	EL7342	12	B1	P	11	PWR/S
Motor B2(*) (TCSY)	gray	L	EL7342	12	B2	P	11	PWR/P
24V(*)(**)	violet	L	EL7342	12	+	P	TBLOCK	
0V(*)(**)	gray	L	EL7342	12	–	P	TBLOCK	
Interlock Mon (TCSX)	brown	L	EL1094	13	I1	BI	10	P9
Interlock Mon (TCSY)	brown	L	EL1094	13	I2	BI	11	P9
(empty)	brown	L	EL1094	13	I3	BI		
(empty)	brown	L	EL1094	13	I4	BI		

(*) AWG16, twist pairs

(**) Wrap twisted pair through a common mode choke, 10 turns, then connect to terminal block

PSL Chassis		Right Rail						
Name	**Color**	**Rail**	**Module**	**Number**	**Channel**	**Type**	**Adapter**	**Pin**
Power								
24VInput	violet	R	EK1101	0	24V	P	TBLOCK	+V
0VInput	gray	R	EK1101	0	0V	P	TBLOCK	–V
24VInput	violet	R	EK1101	0	+	P	TBLOCK	+V
0VInput	gray	R	EK1101	0	–	P	TBLOCK	–V
24V	violet	R	EL9410	12	24V	P	TBLOCK	+V
0V	gray	R	EL9410	12	0V	P	TBLOCK	–V
5V_6	violet	R	EL9410	12	+	P	TBLOCK	+V
5VRET_6	gray	R	EL9410	12	–	P	TBLOCK	–V
Coupler								
Output	CAT5	R	EK1100	0	X2	Comm.	front	OUT
Environmental								
H1:PSL-ENV_LASERRM_ACSTEMP(+V)out	violet	R	EL3154	1	24V	P	1	1
H1:PSL-ENV_LASERRM_ACSTEMP(current)in	green	R	EL3154	1	I1	AI	1	14
H1:PSL-ENV_LASERRM_ACNTEMP(+V)out	violet	R	EL3154	1	24V	P	1	2
H1:PSL-ENV_LASERRM_ACNTEMP(current)in	green	R	EL3154	1	I2	AI	1	15
H1:PSL-ENV_LASERRM_TBLNTEMP(+V)out	violet	R	EL3154	1	24V	P	1	3
H1:PSL-ENV_LASERRM_TBLNTEMP(current)in	green	R	EL3154	1	I3	AI	1	16
H1:PSL-ENV_LASERRM_RH(current)in	green	R	EL3154	1	I4	AI	1	4
H1:PSL-ENV_LASERRM_TBLSTEMP(+V)out	violet	R	EL3154	2	24V	P	1	5
H1:PSL-ENV_LASERRM_TBLSTEMP(current)in	green	R	EL3154	2	I1	AI	1	18
H1:PSL-ENV_ANTERM_TEMP(+V)out	violet	R	EL3154	2	24V	P	1	6
H1:PSL-ENV_ANTERM_TEMP(current)in	green	R	EL3154	2	I2	AI	1	19
H1:PSL-ENV_ANTERM_RH(current)in	green	R	EL3154	2	I3	AI	1	7
H1:PSL-ENV_LVEA_TEMP(+V)out	violet	R	EL3154	2	24V	P	1	8
H1:PSL-ENV_LVEA_TEMP(current)in	green	R	EL3154	2	I4	AI	1	21
H1:PSL-ENV_LASERRMTOANTERM_DPRES(+V)out	violet	R	EL3154	3	24v	P	1	9
H1:PSL-ENV_LASERRMTOANTERM_DPRES(current)in	green	R	EL3154	3	I1	AI	1	22
H1:PSL-ENV_ANTERMTOLVEA_DPRES(+V)out	violet	R	EL3154	3	24V	P	1	10
H1:PSL-ENV_ANTERMTOLVEA_DPRES(current)in	green	R	EL3154	3	I2	AI	1	23
H1:PSL-ENV_DIODERM_TEMP(+V)out	violet	R	EL3154	3	24V	P	2	1
H1:PSL-ENV_DIODERM_TEMP(current)in	green	R	EL3154	3	I3	AI	2	14
H1:PSL-ENV_DIODERM_RH(current)in	green	R	EL3154	3	I4	AI	2	2
H1:PSL-ENV_CHILLERRM_TEMP(+V)out	violet	R	EL3154	4	24V	P	2	3
H1:PSL-ENV_CHILLERRM_TEMP(current)in	green	R	EL3154	4	I1	AI	2	16
H1:PSL-ENV_CHILLERRM_RH(current)in	green	R	EL3154	4	I2	AI	2	4
H1:PSL-ENV_DIODERMTOCHILLERRM_DPRES(+V)out	violet	R	EL3154	4	24V	P	2	5
H1:PSL-ENV_DIODERMTOCHILLERRM_DPRES(current)in	green	R	EL3154	4	I3	AI	2	18
(Empty)	violet	R	EL3154	4	24V	P	2	6
(Empty)	green	R	EL3154	4	I4	AI	2	19
IO PZTs								
Return	black	R	EL9190	5	–	P	3	1/8
V-Mon 1 +	green	R	EL3104	6	+I1	AI	3	1/3
V-Mon 1 –	white	R	EL3104	6	–I1	AI	R/5	Return
V-Mon 2 +	green	R	EL3104	6	+I2	AI	3	1/4
V-Mon 2 –	white	R	EL3104	6	–I2	AI	R/5	Return
SGS-Mon X +	green	R	EL3104	6	+I3	AI	3	1/9
SGS-Mon X –	white	R	EL3104	6	–I3	AI	R/5	Return
SGS-Mon Y +	green	R	EL3104	6	+I4	AI	3	1/10
SGS-Mon Y –	white	R	EL3104	6	–I4	AI	R/5	Return
Return	black	R	EL9190	7	–	P	3	2/8
V-Mon 1 +	green	R	EL3104	8	+I1	AI	3	2/3
V-Mon 1 –	white	R	EL3104	8	–I1	AI	R/7	Return
V-Mon 2 +	green	R	EL3104	8	+I2	AI	3	2/4
V-Mon 2 –	white	R	EL3104	8	–I2	AI	R/7	Return
SGS-Mon X +	green	R	EL3104	8	+I3	AI	3	2/9
SGS-Mon X –	white	R	EL3104	8	–I3	AI	R/7	Return
SGS-Mon Y +	green	R	EL3104	8	+I4	AI	3	2/10
SGS-Mon Y –	white	R	EL3104	8	–I4	AI	R/7	Return
Rotation Stage Feed								
Output	CAT5	R	EK2211	9	X1	Comm.	L/0	IN
Output	CAT5	R	EK2211	9	X2	Comm.	L/10	IN
Relay 11	violet	R	EL2612	11	11	Contact	TBLOCK	+V
Relay 12 (see page 1)	violet	R	EL2612	11	12	Contact	L/0	24V
Relay 14 (empty)		R	EL2612	11	14	Contact		
Relay 21	violet	R	EL2612	11	21	Contact	TBLOCK	+V

Relay 22 (see page 1)	violet	R	EL2612	11	22	Contact	L/10	24V
Relay 24 (empty)		R	EL2612	11	24	Contact		
Picomotor Controller A (**)								
0V	gray	R	EL3102	13	COM	P	TBLOCK	
Temperature Monitor 1 +	green	R	EL3102	13	+I1	AI	4	6
Temperature Monitor 1 –	white	R	EL3102	13	–I1	AI	4	5
Temperature Monitor 2 +	green	R	EL3102	13	+I2	AI	4	4
Temperature Monitor 2 –	white	R	EL3102	13	–I2	AI	4	3
Driver Fault 1	brown	R	EL1014	14	I1	BI	4	10
Driver Fault 2	brown	R	EL1014	14	I2	BI	4	9
Remote ON	brown	R	EL1014	14	I3	BI	4	8
Power ON	brown	R	EL1014	14	I4	BI	4	7
Readbacks	IDC	R	EL1872	15	X1	BI	4	P12
24V	violet	R	EL1872	15	1	P	TBLOCK	
0V	gray	R	EL1872	15	2	P	TBLOCK	
Controls	IDC	R	EL2872	16	X1	BO	4	P11
24V	violet	R	EL2872	16	1	P	TBLOCK	
0V	gray	R	EL2872	16	2	P	TBLOCK	

** Terminal order is out-of sequence between the two picomotor controllers (EL1872 and EL2872 are clustered at the end)