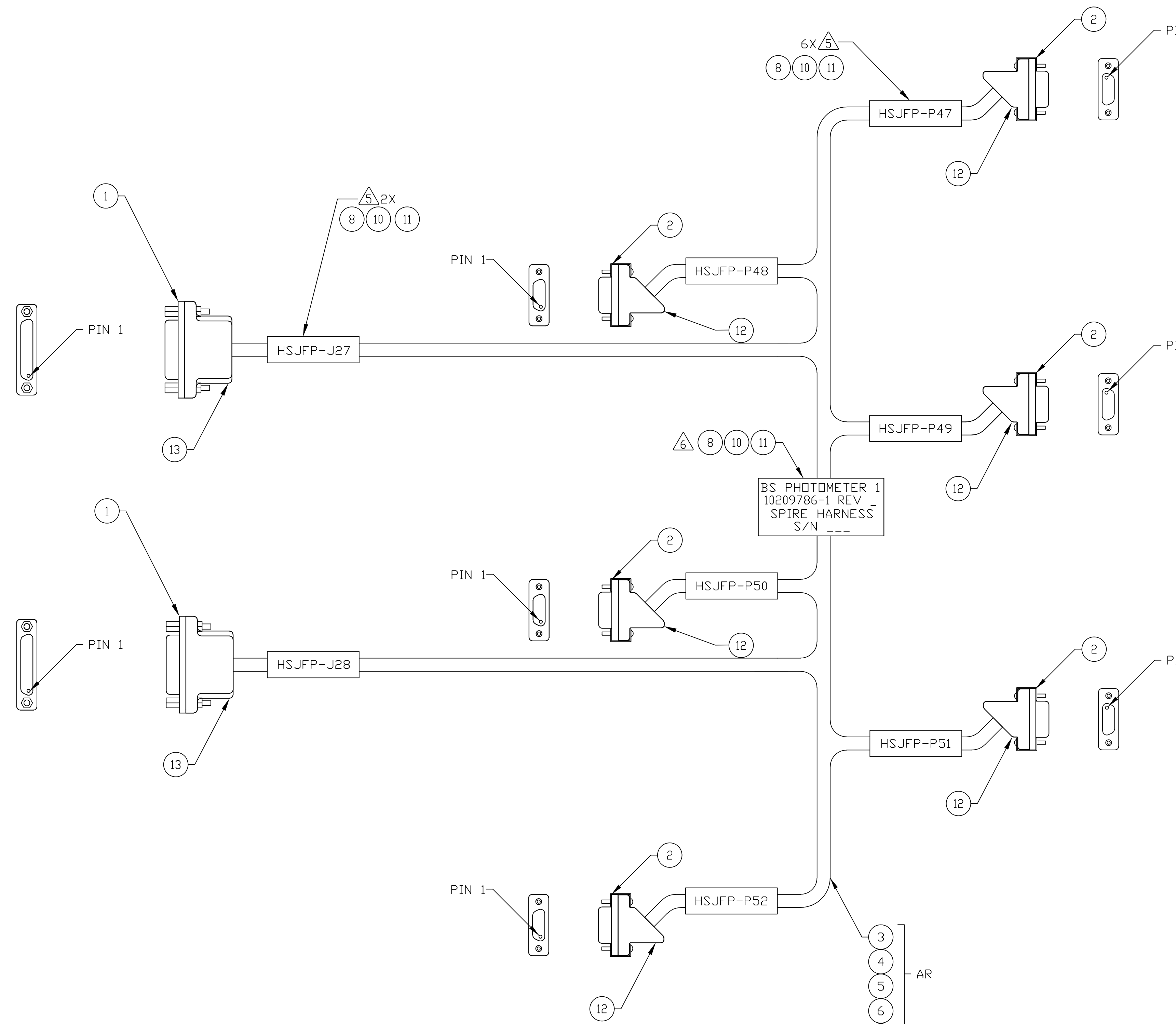


LTR		ZONE		DESCRIPTION		REVISIONS									
CODE	REV	DATE	BY	CHK	APP	DWN	CHK	STRUCT	MATL	THRM	CONTR	ENGR	DSGN	DATA	RELE
A															



- 8. INDICATES TWISTED WIRE GROUP.
 - 7. ALL INTERCONNECT WIRING IS 26 AWG COPPER.
 - IDENTIFY HARNESS AND CONNECTOR PER JPL D-8208, SECTION 3.12 USING ITEMS 8, 10, AND 11. ADD APPLICABLE REVISION LEVEL AND SERIAL NUMBER.
 - IDENTIFY CONNECTORS PER JPL D-8208, SECTION 3.12 USING ITEM 10 AND 11. ALTERNATE METHOD MARK CONNECTOR DIRECTLY USING ITEM 8.
 - 4. TIE CABLE AS REQUIRED USING ITEM 7, LACING TAPE.
 - 3. ALTERNATE OR EQUIVALENT PARTS MAY BE USED SUBJECT TO PRIOR ENGINEERING APPROVAL.
 - 2. FABRICATE HARNESS ON A FULL SCALE MOCKUP OF HARDWARE. BUNDLES SHOULD LIE AS SHOWN ON RAL DOCUMENT 0-KE-0104-350.
 - 1. FABRICATE CABLE PER JPL D-8208, SECTION 3.12.
- NOTES: UNLESS OTHERWISE SPECIFIED

QTY REQD	ITEM NO	REF DES	CAGE NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL OR NOTE	ZONE
AR	14			ST11478-26-ET	WIRE, SC, 26 AWG			
2	13			500-047M37F	BACKSHELL, 37		GLENAIR	
6	12			500E010M15H08	BACKSHELL, 15		GLENAIR	
AR	11			ST10088	TAPE, KAPTON			
AR	10			ST10021	TAPE, GLASS CLOTH			
AR	9				SOLDER	QQ-S-571	SN63	
AR	8				INK, MARKING - BLACK	BS502673	WORNDWINK SERIES M	
AR	7			ST12013	TAPE, LACING			
AR	6			ST10027	TUBING, INSULATION, SHRINKABLE			
AR	5			ST10039	FERRULE, TWO PIECE			
AR	4			ST12015	BRAID WIRE, COPPER, SILVER COATED			
AR	3			ST11481-26-ET	WIRE, TPSJ, 26 AWG			
6	2	HSJFP-PX		MDM-15SSB-A174	CONNECTOR, MICRO D, 15-SKT			
2	1	HSJFP-JX		MDM-37SSP-A174	CONNECTOR, MICRO D, 37-SKT			

PARTS LIST

CONTRACT NO 124485B

JET PROPULSION LABORATORY
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 PASADENA, CA 91109

RELEASED THROUGH EDMG

HARNESS, PHOTOMETER
 LONG & MEDIUM WAVE
 JFETS, SPIRE

APPD _____ DATE _____
 DWN D CRUMB 11/05/01
 CHK _____
 STRUCT _____
 MATL _____
 THRM _____
 CONTR _____

SIZE A1 CAGE NO 23835 10209786 REV A

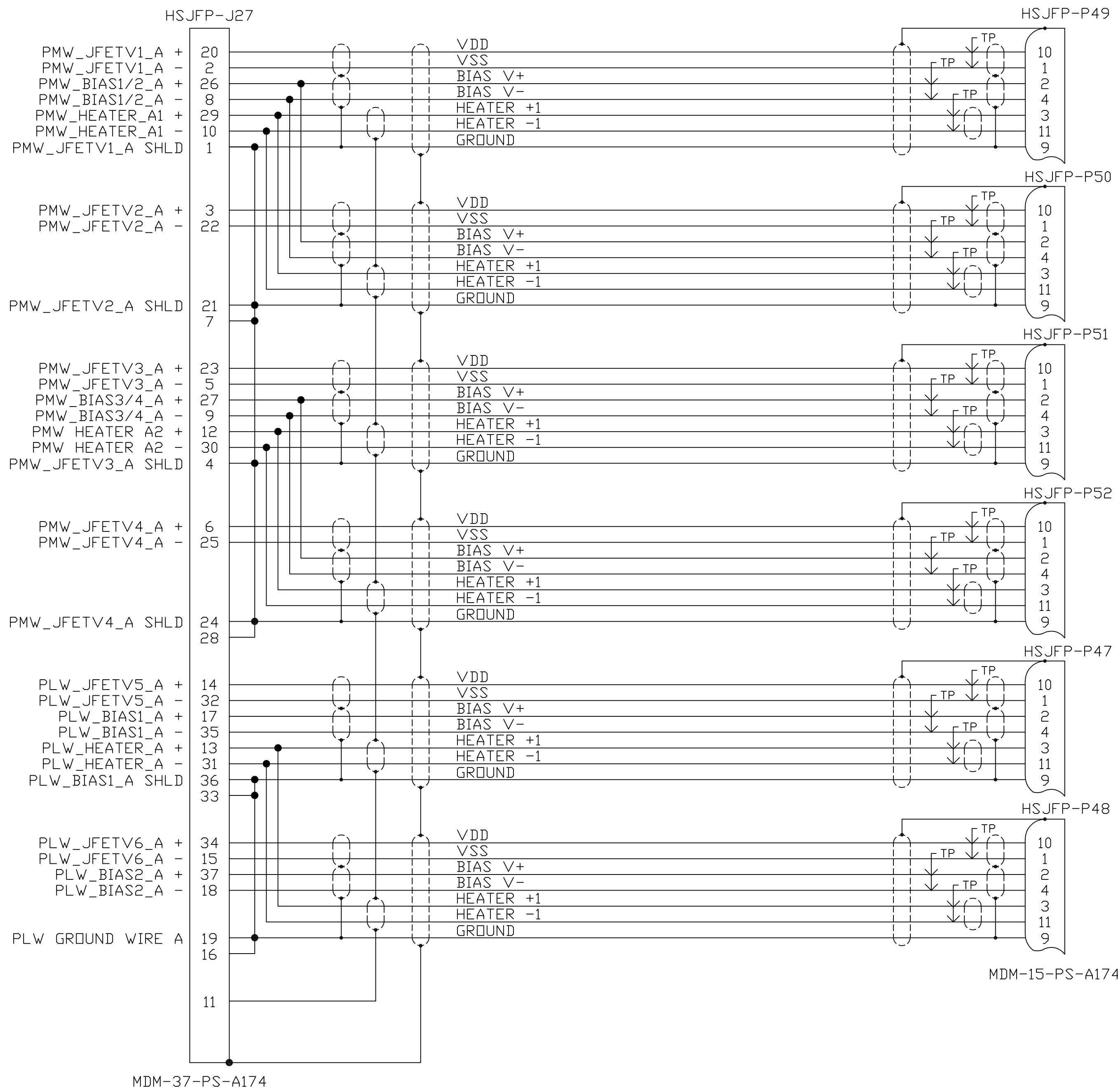
SCALE NONE UNCLASSIFIED SHEET 1 OF 3

APPLICATIO SPIRE USED ON

MATERIAL UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS LINEAR TOLERANCES:
 0-6 ± 0.1
 OVER 6-30 ± 0.2
 OVER 30-120 ± 0.3
 OVER 120-315 ± 0.5
 OVER 315-1000 ± 0.8
 OVER 1000 ± 1.2
 ANGULAR TOLERANCES: ± 0.5°
 MACHINE FINISH (MICROMETERS) 3.2
 DO NOT SCALE DRAWING INTERPRET DWG PER ANSI Y14.100M

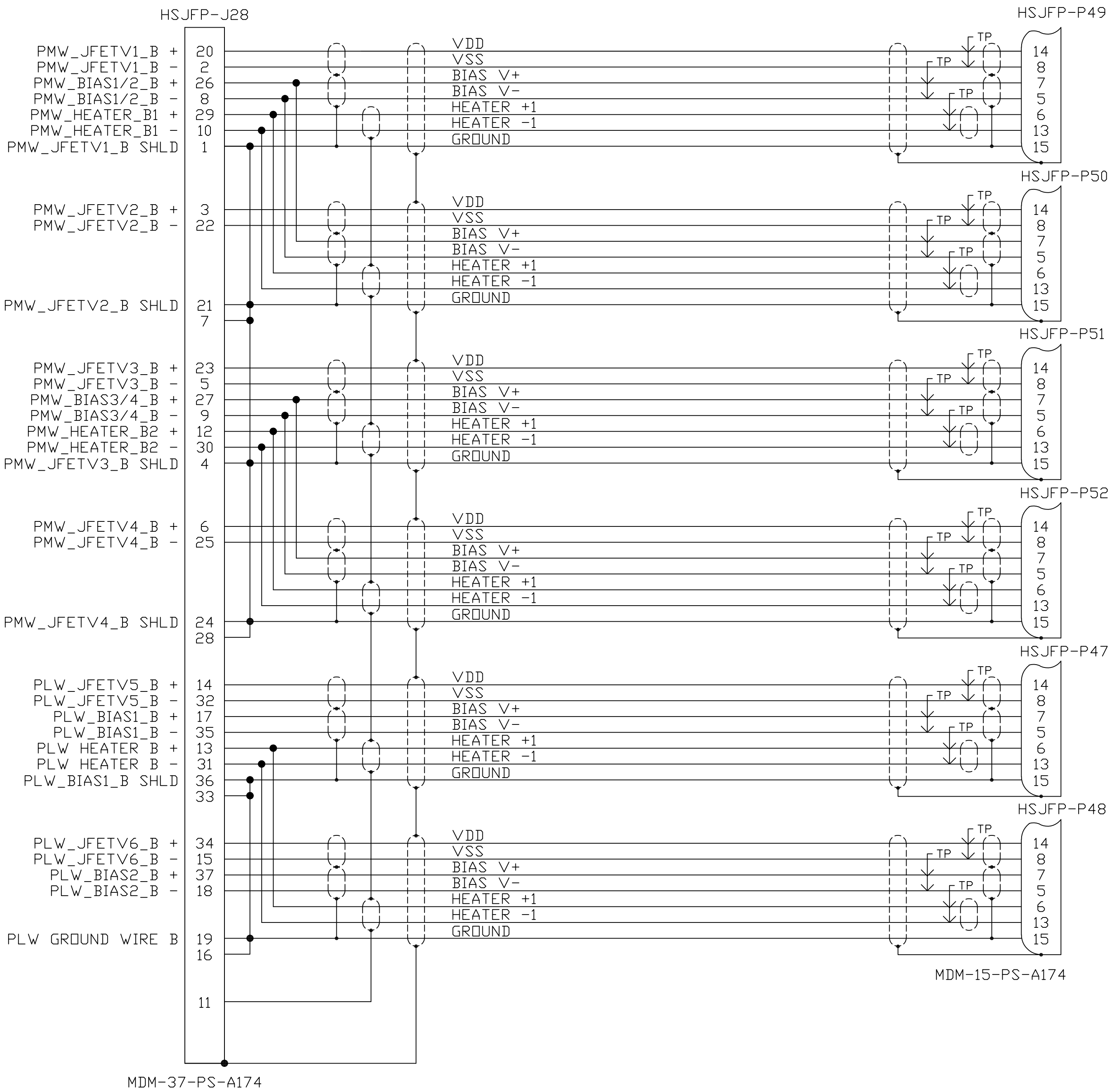
A1 10209786 AutoCAD GENERATED

BS-PHOTOMETER 2



FROM	CONNECTOR PART NO.	CONTACT PART NO.	TO	CONNECTOR PART NO.	CONTACT PART NO.	WIRE AWG & TYPE	TWIST GROUPS	SIGNAL
HSJFP-J27-20	MDM-37PS-A174	—	HSJFP-P49-10	MDM-15PS-A174	—	#26 (TPSJ)	AA	PMW_JFETV1_A +
HSJFP-J27-2	MDM-37PS-A174	—	HSJFP-P49-1	MDM-15PS-A174	—	#26 (TPSJ)	AA	PMW_JFETV1_A -
HSJFP-J27-26	MDM-37PS-A174	—	HSJFP-P49-2	MDM-15PS-A174	—	#26 (TPSJ)	AB	PMW_BIAS1/2_A +
HSJFP-J27-8	MDM-37PS-A174	—	HSJFP-P49-4	MDM-15PS-A174	—	#26 (TPSJ)	AB	PMW_BIAS1/2_A -
HSJFP-J27-29	MDM-37PS-A174	—	HSJFP-P49-3	MDM-15PS-A174	—	#26 (TPSJ)	AC	PMW_HEATER_A1 +
HSJFP-J27-10	MDM-37PS-A174	—	HSJFP-P49-11	MDM-15PS-A174	—	#26 (TPSJ)	AC	PMW_HEATER_A1 -
HSJFP-J27-1	MDM-37PS-A174	—	HSJFP-P49-9	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV1_A SHLD
HSJFP-J27-3	MDM-37PS-A174	—	HSJFP-P50-10	MDM-15PS-A174	—	#26 (TPSJ)	AD	PMW_JFETV2_A +
HSJFP-J27-22	MDM-37PS-A174	—	HSJFP-P50-1	MDM-15PS-A174	—	#26 (TPSJ)	AD	PMW_JFETV2_A -
HSJFP-J27-26	MDM-37PS-A174	—	HSJFP-P50-2	MDM-15PS-A174	—	#26 (TPSJ)	AE	PMW_BIAS1/2_A +
HSJFP-J27-8	MDM-37PS-A174	—	HSJFP-P50-4	MDM-15PS-A174	—	#26 (TPSJ)	AE	PMW_BIAS1/2_A -
HSJFP-J27-29	MDM-37PS-A174	—	HSJFP-P50-3	MDM-15PS-A174	—	#26 (TPSJ)	AF	PMW_HEATER_A1 +
HSJFP-J27-10	MDM-37PS-A174	—	HSJFP-P50-11	MDM-15PS-A174	—	#26 (TPSJ)	AF	PMW_HEATER_A1 -
HSJFP-J27-21	MDM-37PS-A174	—	HSJFP-P50-9	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV2_A SHLD
HSJFP-J27-23	MDM-37PS-A174	—	HSJFP-P51-10	MDM-15PS-A174	—	#26 (TPSJ)	AG	PMW_JFETV3_A +
HSJFP-J27-5	MDM-37PS-A174	—	HSJFP-P51-1	MDM-15PS-A174	—	#26 (TPSJ)	AG	PMW_JFETV3_A -
HSJFP-J27-27	MDM-37PS-A174	—	HSJFP-P51-2	MDM-15PS-A174	—	#26 (TPSJ)	AH	PMW_BIAS3/4_A +
HSJFP-J27-9	MDM-37PS-A174	—	HSJFP-P51-4	MDM-15PS-A174	—	#26 (TPSJ)	AH	PMW_BIAS3/4_A -
HSJFP-J27-12	MDM-37PS-A174	—	HSJFP-P51-3	MDM-15PS-A174	—	#26 (TPSJ)	AJ	PMW_HEATER_A2 +
HSJFP-J27-30	MDM-37PS-A174	—	HSJFP-P51-11	MDM-15PS-A174	—	#26 (TPSJ)	AJ	PMW_HEATER_A2 -
HSJFP-J27-4	MDM-37PS-A174	—	HSJFP-P51-9	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV3_A SHLD
HSJFP-J27-6	MDM-37PS-A174	—	HSJFP-P52-10	MDM-15PS-A174	—	#26 (TPSJ)	AK	PMW_JFETV4_A +
HSJFP-J27-25	MDM-37PS-A174	—	HSJFP-P52-1	MDM-15PS-A174	—	#26 (TPSJ)	AK	PMW_JFETV4_A -
HSJFP-J27-27	MDM-37PS-A174	—	HSJFP-P52-2	MDM-15PS-A174	—	#26 (TPSJ)	AL	PMW_BIAS3/4_A +
HSJFP-J27-9	MDM-37PS-A174	—	HSJFP-P52-4	MDM-15PS-A174	—	#26 (TPSJ)	AL	PMW_BIAS3/4_A -
HSJFP-J27-12	MDM-37PS-A174	—	HSJFP-P52-3	MDM-15PS-A174	—	#26 (TPSJ)	AM	PMW_HEATER_A2 +
HSJFP-J27-30	MDM-37PS-A174	—	HSJFP-P52-11	MDM-15PS-A174	—	#26 (TPSJ)	AM	PMW_HEATER_A2 -
HSJFP-J27-24	MDM-37PS-A174	—	HSJFP-P52-9	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV4_A SHLD
HSJFP-J27-14	MDM-37PS-A174	—	HSJFP-P47-10	MDM-15PS-A174	—	#26 (TPSJ)	AN	PMW_JFETV5_A +
HSJFP-J27-32	MDM-37PS-A174	—	HSJFP-P47-1	MDM-15PS-A174	—	#26 (TPSJ)	AN	PMW_JFETV5_A -
HSJFP-J27-17	MDM-37PS-A174	—	HSJFP-P47-2	MDM-15PS-A174	—	#26 (TPSJ)	AP	PLW_BIAS1_A +
HSJFP-J27-35	MDM-37PS-A174	—	HSJFP-P47-4	MDM-15PS-A174	—	#26 (TPSJ)	AP	PLW_BIAS1_A -
HSJFP-J27-13	MDM-37PS-A174	—	HSJFP-P47-3	MDM-15PS-A174	—	#26 (TPSJ)	AR	PLW_HEATER_A +
HSJFP-J27-31	MDM-37PS-A174	—	HSJFP-P47-11	MDM-15PS-A174	—	#26 (TPSJ)	AR	PLW_HEATER_A -
HSJFP-J27-36	MDM-37PS-A174	—	HSJFP-P47-9	MDM-15PS-A174	—	#26 (SC)		PLW_BIAS1_A SHLD
HSJFP-J27-34	MDM-37PS-A174	—	HSJFP-P48-10	MDM-15PS-A174	—	#26 (TPSJ)	AS	PLW_JFETV6_A +
HSJFP-J27-15	MDM-37PS-A174	—	HSJFP-P48-1	MDM-15PS-A174	—	#26 (TPSJ)	AS	PLW_JFETV6_A -
HSJFP-J27-37	MDM-37PS-A174	—	HSJFP-P48-2	MDM-15PS-A174	—	#26 (TPSJ)	AT	PLW_BIAS2_A +
HSJFP-J27-18	MDM-37PS-A174	—	HSJFP-P48-4	MDM-15PS-A174	—	#26 (TPSJ)	AT	PLW_BIAS2_A -
HSJFP-J27-13	MDM-37PS-A174	—	HSJFP-P48-3	MDM-15PS-A174	—	#26 (TPSJ)	AU	PLW_HEATER_A +
HSJFP-J27-31	MDM-37PS-A174	—	HSJFP-P48-11	MDM-15PS-A174	—	#26 (TPSJ)	AU	PLW_HEATER_A -
HSJFP-J27-19	MDM-37PS-A174	—	HSJFP-P48-9	MDM-15PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J27-1	MDM-37PS-A174	—	HSJFP-J27-21	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J27-21	MDM-37PS-A174	—	HSJFP-J27-7	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J27-7	MDM-37PS-A174	—	HSJFP-J27-4	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J27-4	MDM-37PS-A174	—	HSJFP-J27-24	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J27-24	MDM-37PS-A174	—	HSJFP-J27-28	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J27-36	MDM-37PS-A174	—	HSJFP-J27-33	MDM-37PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J27-33	MDM-37PS-A174	—	HSJFP-J27-19	MDM-37PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J27-19	MDM-37PS-A174	—	HSJFP-J27-16	MDM-37PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J27-11	MDM-37PS-A174	—	—	—	—	#26 (SC)		HEATER SHIELDS

BS-PHOTOMETER 2



FROM	CONNECTOR PART NO.	CONTACT PART NO.	TO	CONNECTOR PART NO.	CONTACT PART NO.	WIRE AWG & TYPE	TWIST GROUPS	SIGNAL
HSJFP-J28-20	MDM-37PS-A174	—	HSJFP-P49-14	MDM-15PS-A174	—	#26 (TPSJ)	BA	PMW_JFETV1_B +
HSJFP-J28-2	MDM-37PS-A174	—	HSJFP-P49-8	MDM-15PS-A174	—	#26 (TPSJ)	BA	PMW_JFETV1_B -
HSJFP-J28-26	MDM-37PS-A174	—	HSJFP-P49-7	MDM-15PS-A174	—	#26 (TPSJ)	BB	PMW_BIAS1/2_B +
HSJFP-J28-8	MDM-37PS-A174	—	HSJFP-P49-5	MDM-15PS-A174	—	#26 (TPSJ)	BB	PMW_BIAS1/2_B -
HSJFP-J28-29	MDM-37PS-A174	—	HSJFP-P49-6	MDM-15PS-A174	—	#26 (TPSJ)	BC	PMW_HEATER_B1 +
HSJFP-J28-10	MDM-37PS-A174	—	HSJFP-P49-13	MDM-15PS-A174	—	#26 (TPSJ)	BC	PMW_HEATER_B1 -
HSJFP-J28-1	MDM-37PS-A174	—	HSJFP-P49-15	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV1_B SHLD
HSJFP-J28-3	MDM-37PS-A174	—	HSJFP-P50-14	MDM-15PS-A174	—	#26 (TPSJ)	BD	PMW_JFETV2_B +
HSJFP-J28-22	MDM-37PS-A174	—	HSJFP-P50-8	MDM-15PS-A174	—	#26 (TPSJ)	BD	PMW_JFETV2_B -
HSJFP-J28-26	MDM-37PS-A174	—	HSJFP-P50-7	MDM-15PS-A174	—	#26 (TPSJ)	BE	PMW_BIAS1/2_B +
HSJFP-J28-8	MDM-37PS-A174	—	HSJFP-P50-5	MDM-15PS-A174	—	#26 (TPSJ)	BE	PMW_BIAS1/2_B -
HSJFP-J28-29	MDM-37PS-A174	—	HSJFP-P50-6	MDM-15PS-A174	—	#26 (TPSJ)	BF	PMW_HEATER_B1 +
HSJFP-J28-10	MDM-37PS-A174	—	HSJFP-P50-13	MDM-15PS-A174	—	#26 (TPSJ)	BF	PMW_HEATER_B1 -
HSJFP-J28-21	MDM-37PS-A174	—	HSJFP-P50-15	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV2_B SHLD
HSJFP-J28-23	MDM-37PS-A174	—	HSJFP-P51-14	MDM-15PS-A174	—	#26 (TPSJ)	BG	PMW_JFETV3_B +
HSJFP-J28-5	MDM-37PS-A174	—	HSJFP-P51-8	MDM-15PS-A174	—	#26 (TPSJ)	BG	PMW_JFETV3_B -
HSJFP-J28-27	MDM-37PS-A174	—	HSJFP-P51-7	MDM-15PS-A174	—	#26 (TPSJ)	BH	PMW_BIAS3/4_B +
HSJFP-J28-9	MDM-37PS-A174	—	HSJFP-P51-5	MDM-15PS-A174	—	#26 (TPSJ)	BH	PMW_BIAS3/4_B -
HSJFP-J28-12	MDM-37PS-A174	—	HSJFP-P51-6	MDM-15PS-A174	—	#26 (TPSJ)	BJ	PMW_HEATER_B2 +
HSJFP-J28-30	MDM-37PS-A174	—	HSJFP-P51-13	MDM-15PS-A174	—	#26 (TPSJ)	BJ	PMW_HEATER_B2 -
HSJFP-J28-4	MDM-37PS-A174	—	HSJFP-P51-15	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV3_B SHLD
HSJFP-J28-6	MDM-37PS-A174	—	HSJFP-P52-14	MDM-15PS-A174	—	#26 (TPSJ)	BK	PMW_JFETV4_B +
HSJFP-J28-25	MDM-37PS-A174	—	HSJFP-P52-8	MDM-15PS-A174	—	#26 (TPSJ)	BK	PMW_JFETV4_B -
HSJFP-J28-27	MDM-37PS-A174	—	HSJFP-P52-7	MDM-15PS-A174	—	#26 (TPSJ)	BL	PMW_BIAS3/4_B +
HSJFP-J28-9	MDM-37PS-A174	—	HSJFP-P52-5	MDM-15PS-A174	—	#26 (TPSJ)	BL	PMW_BIAS3/4_B -
HSJFP-J28-12	MDM-37PS-A174	—	HSJFP-P52-6	MDM-15PS-A174	—	#26 (TPSJ)	BM	PMW_HEATER_B2 +
HSJFP-J28-30	MDM-37PS-A174	—	HSJFP-P52-13	MDM-15PS-A174	—	#26 (TPSJ)	BM	PMW_HEATER_B2 -
HSJFP-J28-24	MDM-37PS-A174	—	HSJFP-P52-15	MDM-15PS-A174	—	#26 (SC)		PMW_JFETV4_B SHLD
HSJFP-J28-14	MDM-37PS-A174	—	HSJFP-P47-14	MDM-15PS-A174	—	#26 (TPSJ)	BN	PLW_JFETV5_B +
HSJFP-J28-32	MDM-37PS-A174	—	HSJFP-P47-8	MDM-15PS-A174	—	#26 (TPSJ)	BN	PLW_JFETV5_B -
HSJFP-J28-17	MDM-37PS-A174	—	HSJFP-P47-7	MDM-15PS-A174	—	#26 (TPSJ)	BP	PLW_BIAS1_B +
HSJFP-J28-35	MDM-37PS-A174	—	HSJFP-P47-5	MDM-15PS-A174	—	#26 (TPSJ)	BP	PLW_BIAS1_B -
HSJFP-J28-13	MDM-37PS-A174	—	HSJFP-P47-6	MDM-15PS-A174	—	#26 (TPSJ)	BR	PLW_HEATER_B +
HSJFP-J28-31	MDM-37PS-A174	—	HSJFP-P47-13	MDM-15PS-A174	—	#26 (TPSJ)	BR	PLW_HEATER_B -
HSJFP-J28-36	MDM-37PS-A174	—	HSJFP-P47-15	MDM-15PS-A174	—	#26 (SC)		PLW_BIAS1_B SHLD
HSJFP-J28-34	MDM-37PS-A174	—	HSJFP-P48-14	MDM-15PS-A174	—	#26 (TPSJ)	BS	PLW_JFETV6_B +
HSJFP-J28-15	MDM-37PS-A174	—	HSJFP-P48-8	MDM-15PS-A174	—	#26 (TPSJ)	BS	PLW_JFETV6_B -
HSJFP-J28-37	MDM-37PS-A174	—	HSJFP-P48-7	MDM-15PS-A174	—	#26 (TPSJ)	BT	PLW_BIAS2_B +
HSJFP-J28-18	MDM-37PS-A174	—	HSJFP-P48-5	MDM-15PS-A174	—	#26 (TPSJ)	BT	PLW_BIAS2_B -
HSJFP-J28-13	MDM-37PS-A174	—	HSJFP-P48-6	MDM-15PS-A174	—	#26 (TPSJ)	BU	PLW_HEATER_B +
HSJFP-J28-31	MDM-37PS-A174	—	HSJFP-P48-13	MDM-15PS-A174	—	#26 (TPSJ)	BU	PLW_HEATER_B -
HSJFP-J28-19	MDM-37PS-A174	—	HSJFP-P48-15	MDM-15PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J28-1	MDM-37PS-A174	—	HSJFP-J28-21	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J28-21	MDM-37PS-A174	—	HSJFP-J28-7	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J28-7	MDM-37PS-A174	—	HSJFP-J28-4	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J28-4	MDM-37PS-A174	—	HSJFP-J28-24	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J28-24	MDM-37PS-A174	—	HSJFP-J28-28	MDM-37PS-A174	—	#26 (SC)		PMW GROUND WIRE
HSJFP-J28-36	MDM-37PS-A174	—	HSJFP-J28-33	MDM-37PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J28-33	MDM-37PS-A174	—	HSJFP-J28-19	MDM-37PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J28-19	MDM-37PS-A174	—	HSJFP-J28-16	MDM-37PS-A174	—	#26 (SC)		PLW GROUND WIRE
HSJFP-J28-11	MDM-37PS-A174	—	—	—	—	#26 (SC)		HEATER SHIELDS