

NOTES:

1. LABEL AS MARKED.
2. ALL DIMENSIONS IN mm.
3. LENGTH TOLERANCE IS ±10 mm EXCEPT AS NOTED.
4. ON P1, USE AN 8mm ±1mm LENGTH OF 1.2mm I.D. HEATSHRINK, ITEM 13, ON EACH SOLDERED CONNECTION TO ENSURE ISOLATION.
5. INSULATE DRAIN WIRES INSIDE P1 BACKSHELL WITH TEFLON TUBE SLEEVING, ITEM 16, (FOIL SHIELDS DO NOT NEED TO BE ISOLATED FROM EACH OTHER INSIDE THE P1 BACKSHELL.)
6. USE MANUFACTURER SPECIFIED TOOLING FOR ITEM 3, ITEM 7, AND ITEM 9.
7. CRIMP AND INSPECT ITEM 7 PER MOLEX TM-63800-0029. CRIMP AND INSPECT ITEM 9 PER TE 114-25038.
8. CONTACT RETENTION TEST: EACH CONTACT SHALL BE PUSH OR PULL TESTED 100% FOR SEATING PER NASA-STD-8739.4A, SECTION 13:
ITEM 7 - AXIAL FORCE = 24 N, PER MOLEX PS-43650
ITEM 9 - AXIAL FORCE = 13 N, PER TE 108-1472
9. USE FUSION WRAP, ITEM 17, TO BUILD UP DIAMETER OF THE WIRE BUNDLE FOR THE STRAIN RELIEF INSIDE OF THE P1 BACKSHELL, ITEM 2.
10. EACH CABLE SHALL BE 100% ELECTRICALLY TESTED.
- CONNECTION RESISTANCE LESS THAN 5 OHMS.
- INSULATION RESISTANCE MORE THAN 5 MOHMS.

REVISION HISTORY												
LTR	DESCRIPTION					DWN	CHK	STRUCT	MATL	THRM CONT	ENGR	DSGN SUPV
A	INITIAL RELEASE					CLASS E	SEE PRODUCT DATA MANAGEMENT SYSTEM (PDMS) FOR APPROVAL SIGNATURES AND DATES					

	AR	18			1A-151-10 (5648K69)	TUBING, 6.4mm O.D. CLEAR	FREELIN WADE	POLYURETHANE
	AR	17			P36728 OR EQUIV.	SEAL-TITE FUSION WRAP	LAWSON PROD.	
	AR	16			TFT20026 NA005	TUBING, 0.4mm I.D. NATURAL	ALPHA WIRE	PTFE
	AR	15			F2213/4 BK105	HEAT SHRINK, 19mm I.D. BLACK PO	ALPHA WIRE	POLYOLEFIN
	AR	14			F221B3/16 CL100	HEAT SHRINK, 4.8mm I.D. CLEAR PO	ALPHA WIRE	POLYOLEFIN
	AR	13			F221B3/64 CL100	HEAT SHRINK, 1.2mm I.D. CLEAR PO	ALPHA WIRE	POLYOLEFIN
	AR	12			78113	CABLE, SJ, 3 CONDUCTOR, 26AWG	ALPHA WIRE	
	AR	11			78112	CABLE, SJ, 2 CONDUCTOR, 26AWG	ALPHA WIRE	
	AR	10			78162	CABLE, SJ, 2 PAIR, 26AWG	ALPHA WIRE	
	3	9	J3		1-104480-7	TERMINAL, SOCKET, 22-26 AWG	AMP	TIN FINISH
	1	8	J3		104257-3	HOUSING, 4 POS, REC, AMPUMOD	AMP	THERMOPLASTIC
	4	7	J1, J2		43030-0005	TERMINAL, SOCKET, 26-30 AWG	MOLEX	GOLD FINISH
	1	6	J2		43645-0300	HOUSING, 3 POS, REC, MICRO-FIT	MOLEX	BLACK NYLON
	1	5	J1		43645-0200	HOUSING, 2 POS, REC, MICRO-FIT	MOLEX	BLACK NYLON
	7	4	P2-P8		105016	EZ STRAIN RELIEF	PLATINUM TOOLS	POLYCARBONATE
	7	3	P2-P8		105020	CONNECTOR, EZ-RJ45, SHIELDED	PLATINUM TOOLS	
	2	2	P1		10350-52F0-008	BACKSHELL, 50 POSITION, MDR	3M	
	1	1	P1		10150-3000PE	PLUG, M-50P-SOLDER CUP, MDR	3M	
	-1	ITEM NO	REF DES	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL OR NOTE
QTY REQD								

PARTS LIST																		
MATERIAL:					CONTRACT NO													
MATERIAL PER SPECIFICATION					DATE													
					APPD	DATE												
					DWN	SEE PDMS FOR APPROVAL SIGNATURES AND DATES												
					CHK													
					STRUCT													
					MATL													
					THRM CONT													
					ENGR													
					DSGN SUPV													
THIRD ANGLE PROJECTION					UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES													
					LINEAR TOLERANCES:													
					.XX ± .03													
					.XXX ± .010													
					ANGULAR TOLERANCES: ± 0.5°													
					MACHINE FINISH													
					DO NOT SCALE DRAWING													
					INTERPRET DWG PER ASME Y14.100													

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN EXPORT CONTROLLED TECHNICAL DATA.

	TMT
NEXT ASSEMBLY	USED ON
APPLICATION	

JET PROPULSION LABORATORY

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CA 91109

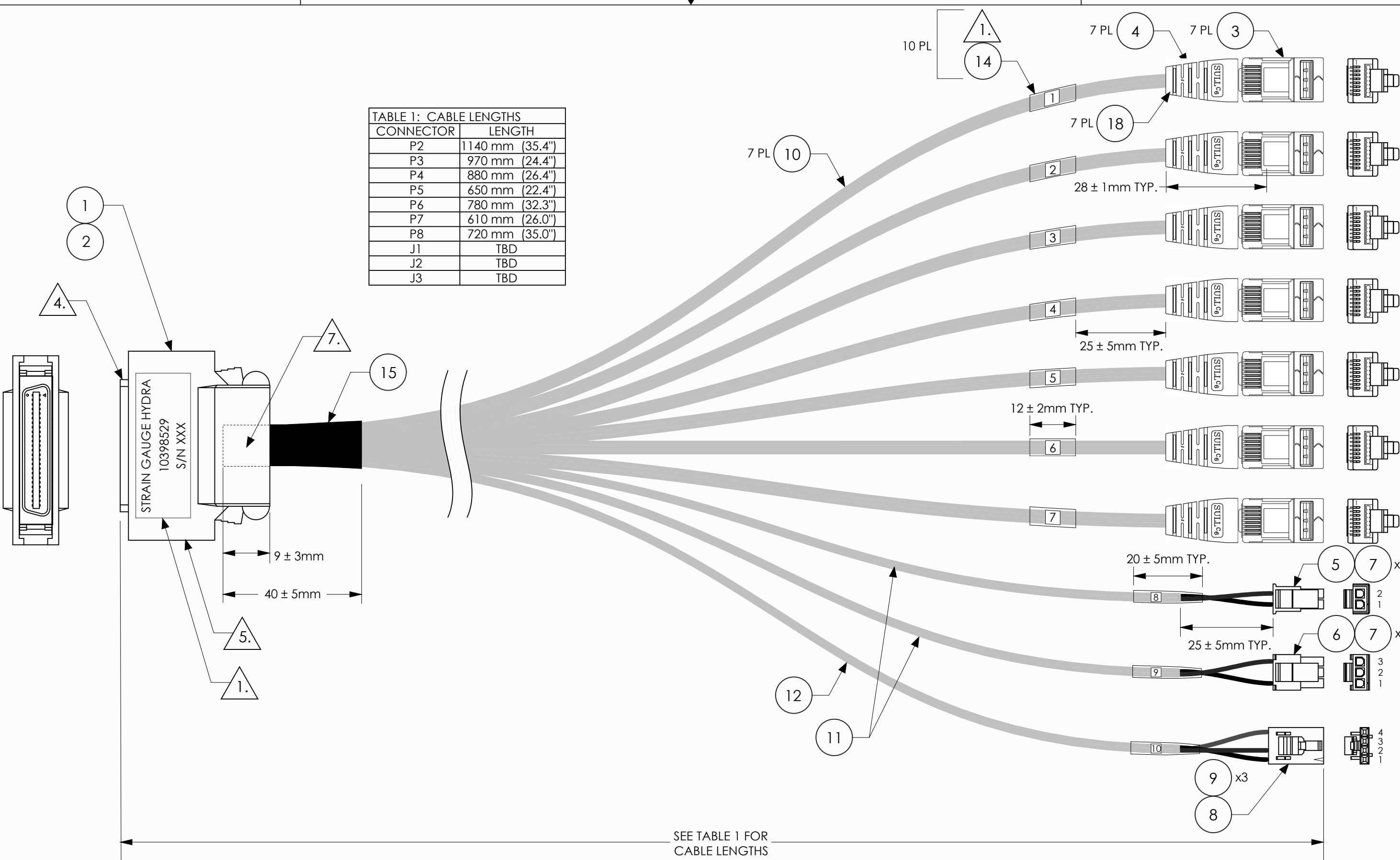
CABLE ASSEMBLY,
STRAIN GAUGE HYDRA

SIZE	CAGE CODE		REV
B	23835	10398529	A

SCALE: 1/1 UNCLASSIFIED SHEET 1 OF 3

TABLE 1: CABLE LENGTHS

CONNECTOR	LENGTH
P2	1140 mm (35.4")
P3	970 mm (24.4")
P4	880 mm (26.4")
P5	650 mm (22.4")
P6	780 mm (32.3")
P7	610 mm (26.0")
P8	720 mm (35.0")
J1	TBD
J2	TBD
J3	TBD



SEE TABLE 1 FOR
CABLE LENGTHS

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TECHNICAL DATA.

SIZE

B

CAGE CODE

23835

10398529

REV

A

SCALE: 1/1

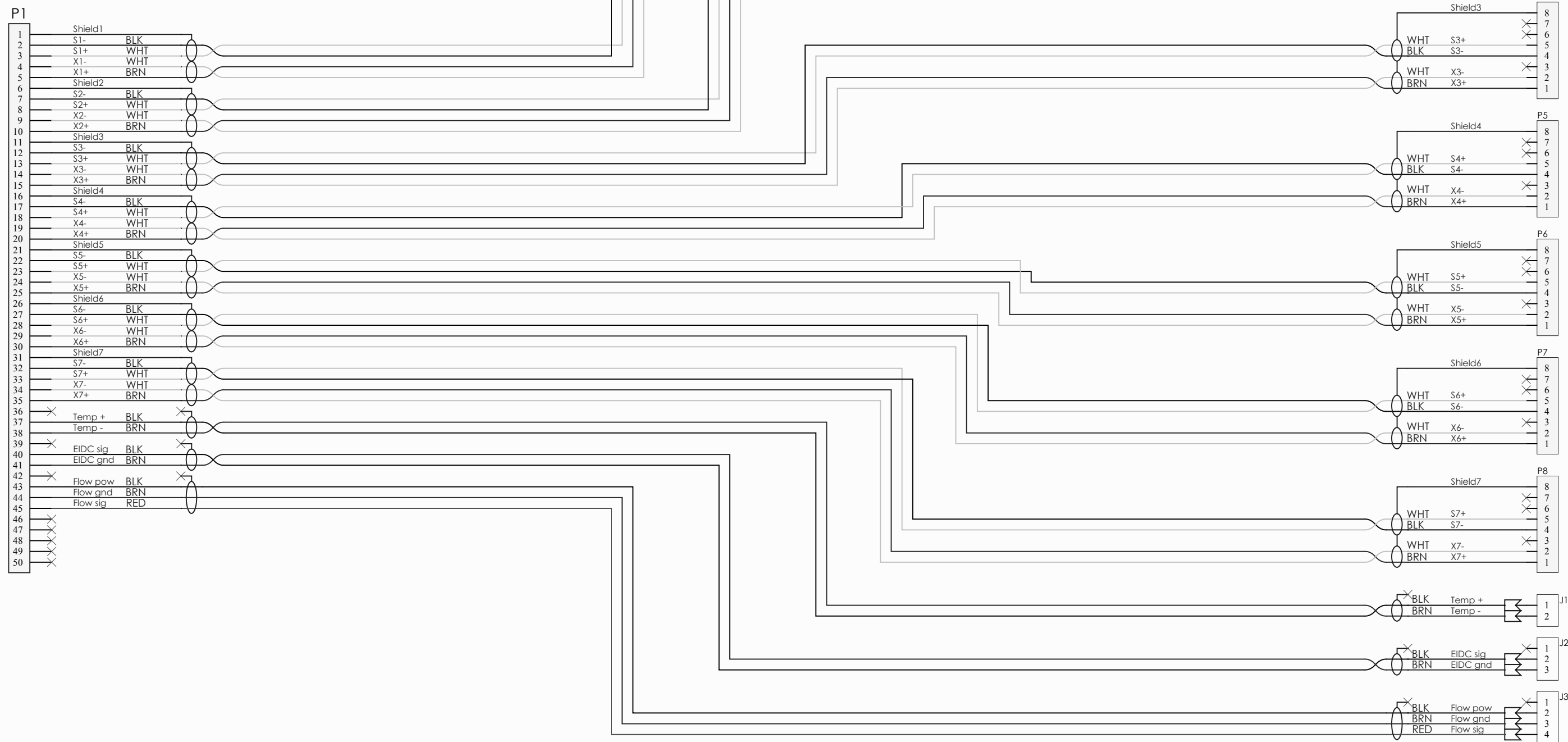
UNCLASSIFIED

SHEET

2

OF

3



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TECHNICAL DATA.

SIZE	CAGE CODE	REV
B	23835	A
10398529		
SCALE: 1/1	UNCLASSIFIED	SHEET 3 OF 3