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DOCUMENT NUMBER: 901433-003
REVISION: —
DATE: November 6, 2000

CABLE ASSEMBLY,

VME-179, PMC-700, P2,

CBL-700-000

REV -	A	B	C
PREPARED BY: S. P. Joanisse ENGINEER			
DATE Nov. 6, 2000			
APPROVED BY: N. Eastman SYSTEMS ENGINEER			
DATE Nov. 6, 2000			
APPROVED BY: L. Brown PROJECT LEADER			
DATE Nov. 6, 2000			
APPROVED BY: D. Barry PROGRAM MANAGER			
DATE Nov. 6, 2000			

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REVISION NOTICE

REVISION	BY	CHANGES	DATE
1	VP	Initial Release	July 6, 2000
—	SPJ	Production release – mods to J9 (pins 22 and 24 were swapped) – mods to J8 (pin 5 replaced pin 10 on HsyncRtn)	Nov. 6, 2000

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GENERAL INSTRUCTIONS:

- COMPONENTS ARE TO BE SELECTED IN ACCORDANCE WITH THE ATTACHED PARTS LIST.
- WIRE CONNECTIONS ARE TO BE IN ACCORDANCE WITH ATTACHED WIRING LIST.
- THE CABLE IS TO BE IDENTIFIED WITH THE CABLE ASSEMBLY NUMBER AND REVISION.
- EACH BRANCH IS TO BE IDENTIFIED AS PER PARTS LIST.
- TERMINATE ALL CONNECTIONS AS PER MANUFACTURERS INSTRUCTIONS.
- A CABLE HOOD IS REQUIRED FOR THE HOST CONNECTOR, TYPICALLY J1, BUT NOT FOR ANY BRANCH CONNECTORS.
- SUPPLY FEMALE SCREW LOCK ASSEMBLIES FOR D-SUB CONNECTORS AND BAIL LOCK KITS FOR ALL CHAMP CONNECTORS (CABLE TO PANEL). THESE ASSEMBLIES ARE NOT TO BE INSTALLED BUT RATHER SHIPPED LOOSE WITH THE FINISHED CABLE ASSEMBLY.
- CABLE ASSEMBLY SHOULD BE INDIVIDUALLY PACKAGED IN A CLEAR PLASTIC BAG.
- STANDARD TESTING OF EACH CABLE IS REQUIRED.
- TOLERANCE ON ALL DIMENTIONS IS 5%.
- UNUSED POSITIONS ON P1 ROWS A AND C ARE TO BE POPULATED WITH CONTACTS TO ADD RETENTION FORCE.

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PARTS LIST TABLE 1

REF DES	TYPE OF PART	PART NUMBER	QUANTITY
P1	DIN, 41612, type E160 plug	ERNI 024070	1
P1	Crimp contacts	ERNI 014 728	AR
P1	Dust cover	ERNI 173052	1
J2	Receptacle connector	AMP 2-552476-1	1
J2	Dust cover	AMP 229969-1	1
J2	Bail lock kit	AMP 552567-1	1
J3	Ethernet branch removed	N/A	
J4	D SUB DE9S receptacle	AMP 205203-1	1
J4	Socket, crimp, snap-in D SUB 20-24 AWG	AMP 66504-9	4
J5	D SUB DE9S receptacle	AMP 205203-1	1
J5	Socket, crimp, snap-in D SUB 20-24 AWG	AMP 66504-9	3
J6	D SUB DB25P receptacle	AMP 205208-1	1
J6	Pin, crimp, snap-in, D SUB, 20-24 AWG	AMP 66506-9	9
J7	D SUB DB25P receptacle	AMP 205208-1	1
J7	Pin, crimp, snap-in, D SUB, 20-24 AWG	AMP 66506-9	9
J8	HDD SUB 15 contact receptacle	AMP 748565-1	1
J8	Socket, crimp, snap-in HDD SUB	AMP 748610-4	15
J9	Half a Molex TMDS cable	MOLEX 88741-8000	1
J2-9	Sleeving	ALPHA GRP-110-NF	AR

Notes specific to this cable:

- Use white stranded 22 AWG PVC wire.
- Use expandable braid sleeving (ALPHA) or equivalent on specified branches.

LABEL LIST TABLE 2

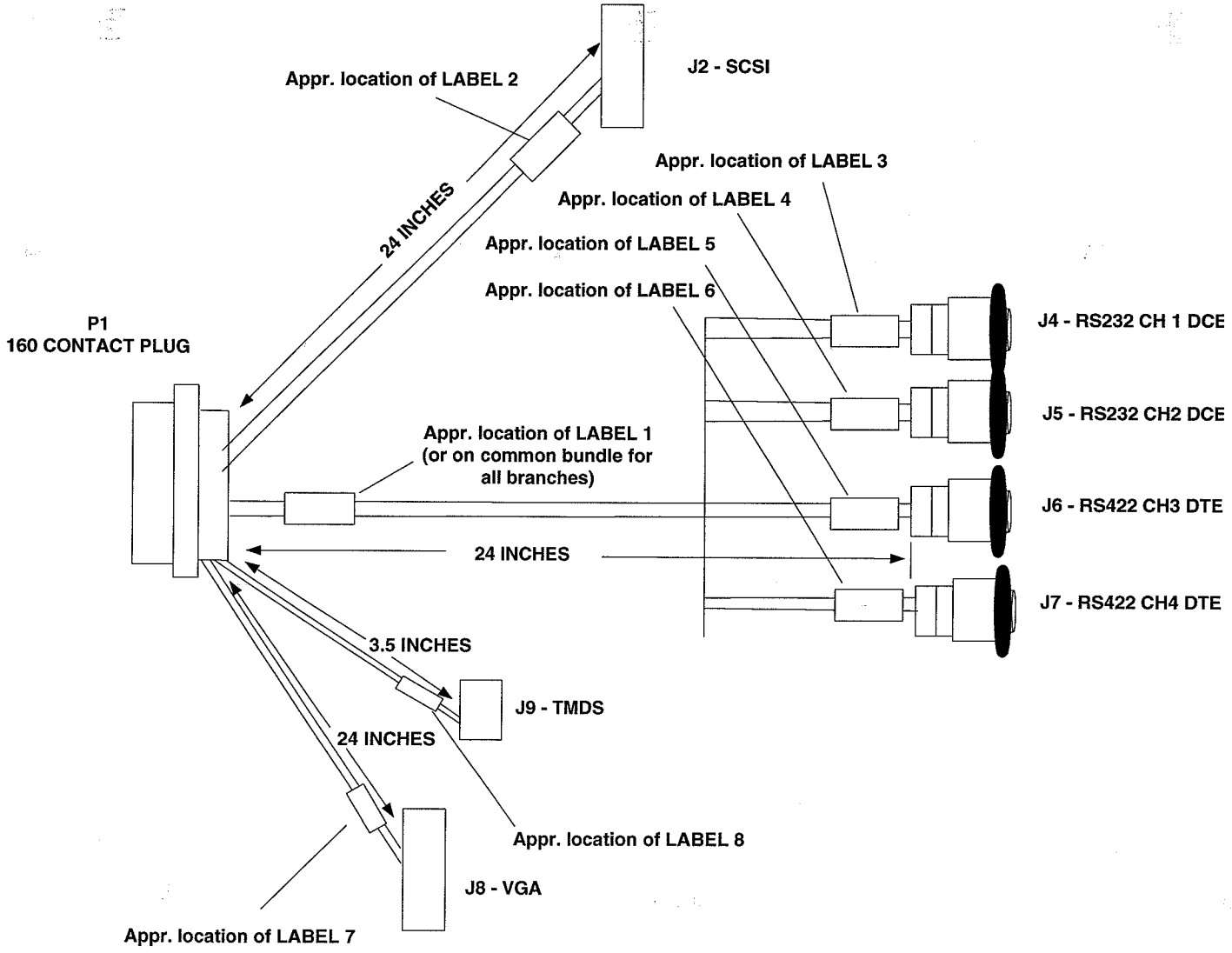
LABEL	LABEL TO READ
1	DY4 SYSTEMS INC. CBL-700-000 Cable Assembly, VME-179, PMC-700 901433-003 REV__
2	J2 - SCSI
3	J4 - RS232 CH1 DCE
4	J5 - RS232 CH2 DCE
5	J6 - RS422 CH3 DTE
6	J7 - RS422 CH4 DTE
7	J8 - VGA
8	J9 - TMDS

NOTE: Current revision of this document to be marked on label 1 at REV__.

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PICTORIAL REPRESENTATION OF CABLE ASSEMBLY, VME-179, PMC-700, P2

Top view



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WIRING LIST TABLE 3

SCSI (J2)

SIGNAL NAME	FROM P1 CONTACT	TO J2 CONTACT	COMMENTS
GND	C2	1	
GND	C2	2	
GND	C2	3	
GND	C2	4	
GND	C2	5	
GND	C2	6	
GND	C2	7	
GND	C2	8	
GND	C2	9	
GND	C2	10	
GND	C12	11	
GND	C12	12	
GND	C12	14	
GND	C12	15	
GND	C12	16	
GND	C12	17	
GND	C12	18	
GND	C12	19	
GND	C12	20	
GND	C22	21	
GND	C22	22	
GND	C22	23	
GND	C22	24	
GND	C22	25	
-DB(0)	A1	26	
-DB(1)	A3	27	
-DB(2)	A5	28	
-DB(3)	A7	29	
-DB(4)	A9	30	
-DB(5)	A11	31	
-DB(6)	A13	32	
-DB(7)	A15	33	
-DB(P)	A17	34	
GND	C22	35	
GND	C22	36	
GND	C22	37	
TERMPWR	E10	38	
GND	C22	39	
GND	C22	40	
-ATN	E1	41	
GND	C22	42	
-BSY	E2	43	
-ACK	E3	44	

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-RST	E4	45	
-MSG	E5	46	
-SEL	E6	47	
-C/D	E7	48	
-REQ	E8	49	
-I/O	E9	50	

WIRING LIST TABLE 4

RS232 CH1 DCE (J4)

SIGNAL NAME	FROM P1 CONTACT	TO J4 CONTACT	COMMENTS
CH1TXD	E17	2	
CH1RXD	E18	3	
CH1DTR	E19	4	
GND	C31	5	

WIRING LIST TABLE 5

RS232 CH2 DCE (J5)

SIGNAL NAME	FROM P1 CONTACT	TO J5 CONTACT	COMMENTS
CH2TXD	E30	2	
CH2RXD	A19	3	
GND	C31	5	

WIRING LIST TABLE 6

RS422 CH3 DTE (J6)

SIGNAL NAME	FROM P1 CONTACT	TO J6 CONTACT	COMMENTS
CH3TXD A	E11	2	Twisted pair 1
CH3TXD B	E12	14	Twisted pair 1
CH3RXD A'	E14	3	Twisted pair 2
CH3RXD B'	E13	16	Twisted pair 2
CH3TXCOUT A	E15	15	Twisted pair 3
CH3TXCOUT B	E16	24	Twisted pair 3
CH3RXC A'	A21	17	Twisted pair 4
CH3RXC B'	A23	25	Twisted pair 4
GND	C12	7	

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WIRING LIST TABLE 7

RS422 CH4 DTE (J7)

SIGNAL NAME	FROM P1 CONTACT	TO J7 CONTACT	COMMENTS
CH4TXD A	E26	2	Twisted pair 1
CH4TXD B	E27	14	Twisted pair 1
CH4RXD A'	E21	3	Twisted pair 2
CH4RXD B'	E20	16	Twisted pair 2
CH4TXCOUT A	E22	15	Twisted pair 3
CH4TXCOUT B	E23	24	Twisted pair 3
CH4RXC A'	E25	17	Twisted pair 4
CH4RXC B'	E24	25	Twisted pair 4
GND	C22	7	

WIRING LIST TABLE 8

VGA (J8)

SIGNAL NAME	FROM P1 CONTACT	TO J8 CONTACT	COMMENTS
GREEN	B32	2	Twisted pair 1
GREEN RTN	B31	7	Twisted pair 1
BLUE	B28	3	Twisted pair 2
BLUE RTN	B27	8	Twisted pair 2
RED	B30	1	Twisted pair 3
RED RTN	B29	6	Twisted pair 3
HSYNC	B23	13	Twisted pair 4
HSYNC RTN	B22	5	Twisted pair 4
VSYNC	B24	14	Twisted pair 5
VSYNC RTN	B25	10	Twisted pair 5

WIRING LIST TABLE 9

TMDS (J9)

SIGNAL NAME	FROM P1 CONTACT	TO J9 CONTACT	COMMENTS
TXC-	D1	24	Twisted set 1
TXC+	D2	23	Twisted set 1
TXC GND	D3	22	Twisted set 1
TX0-	B1	17	Twisted set 2
TX0+	B2	18	Twisted set 2
TX0 GND	B3	19	Twisted set 2
TX1-	D18	9	Twisted set 3
TX1+	B17	10	Twisted set 3
TX1 GND	D17	11	Twisted set 3

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TX2-	D31	1	Twisted set 4
TX2+	D32	2	Twisted set 4
TX2 GND	D30	3	Twisted set 4
DDC CLK	B20	6	
DDC DATA	B21	7	
+5V POWER	C1	14	
GND	C2	15	

NOTES SPECIFIC TO THE ASSEMBLY OF THIS BRANCH:

- One half of the Molex cable is to be used for the assembly of this branch.
- **All twisted sets MUST be twisted right up to the P1 connector, as these digital signals are very susceptible to noise.**

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