

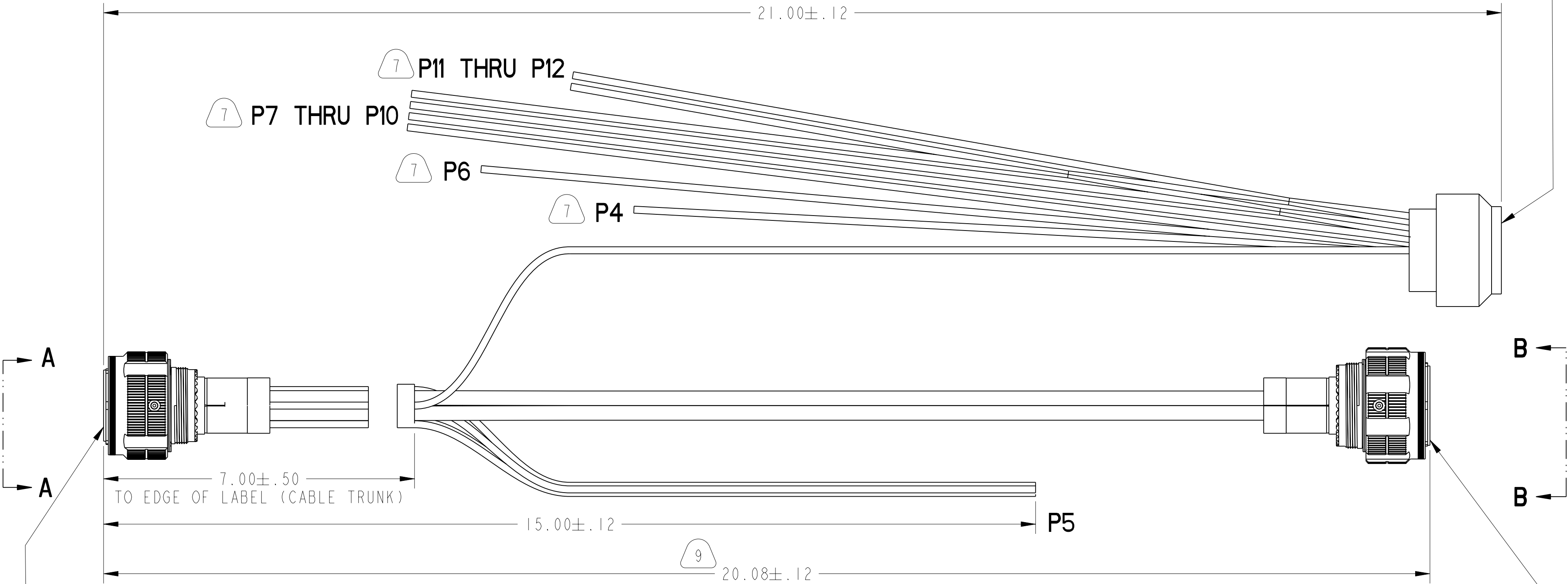
CA-628485-D05	SHEET 1 OF 7	REV. A
REVISIONS M		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	---

CABLE LENGTH TABLE

CABLE	LENGTH FROM P2 INTERFACE	TOLERANCE
P4	15.00	$\pm .12$
P6	36.00	$\pm .50$
P7 THRU P10	48.00	$\pm .50$
P11 THRU P12	24.00	$\pm .50$

P2 CONNECTOR  
(GLENAIR 805-002-16M21-100PC)

SEALING PLUGS  
4X MS27488-22-2



P1 CONNECTOR  
(TV06RQF-19-18S(LC))

QUADRAX CONTACTS  
4X 21-033471-001

22D CONTACTS  
14X M39029/56-348

SEALING PLUGS  
3X MS27488-22-2

P3 CONNECTOR  
(TV06RQF-19-18PA(LC))

QUADRAX CONTACTS  
4X 21-033470-001

22D CONTACTS  
14X M39029/58-360

SEALING PLUGS  
14X MS27488-22-2

SEE SHEET 7

NOTES:

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SHEET 1 OF 7


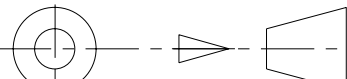
REV. A

PRO/ENGINEER INFORMATION

Pro/e Model Used:

Drawing Name:

CA-628485-D05

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE	
<div>LINEAR DIMENSIONS ARE IN INCHES TOLERANCES:   .XXXX = ±.0005    ANGLES= ±2°   .XXX = ±.010   .XX = ±.03   .X = ±.1</div> <div>-----</div> <div>DIM. &amp; TOL. PER ASME Y14.5M; DRM PER MIL-STD-31000; OTHER Amphenol Sids. PER 9-3800</div> <div>LEGENDS: =FLAG NOTE CALL OUT REFERENCE ONLY</div> <div></div>		MATERIAL SPEC.	APPROVALS		DATE	<div>AMPHENOL CORPORATION</div> <div>40-60 DELAWARE AVENUE SIDNEY, N.Y. 13838</div> <div>ASSEMBLY, CABLE, MULTI-BRANCH</div>			
		NONE	PREPARED BY ENGINEER IN CHARGE	A. MESCHTER D. WILDING	4-Jan-17				
			DESIGN MANAGER	D. WILDING					
			DESIGN ACTIVITY GROUP	C-2					
		PROCESS SPEC.	THIRD ANGLE PROJECTION				SIZE C	CAGE CODE 77820	DOCUMENT NO. CA-628485-D05
9-9172-3					SCALE: 0.5		REF. CA-628485-C85	SHEET 1 OF 7	

CA-628485-D05

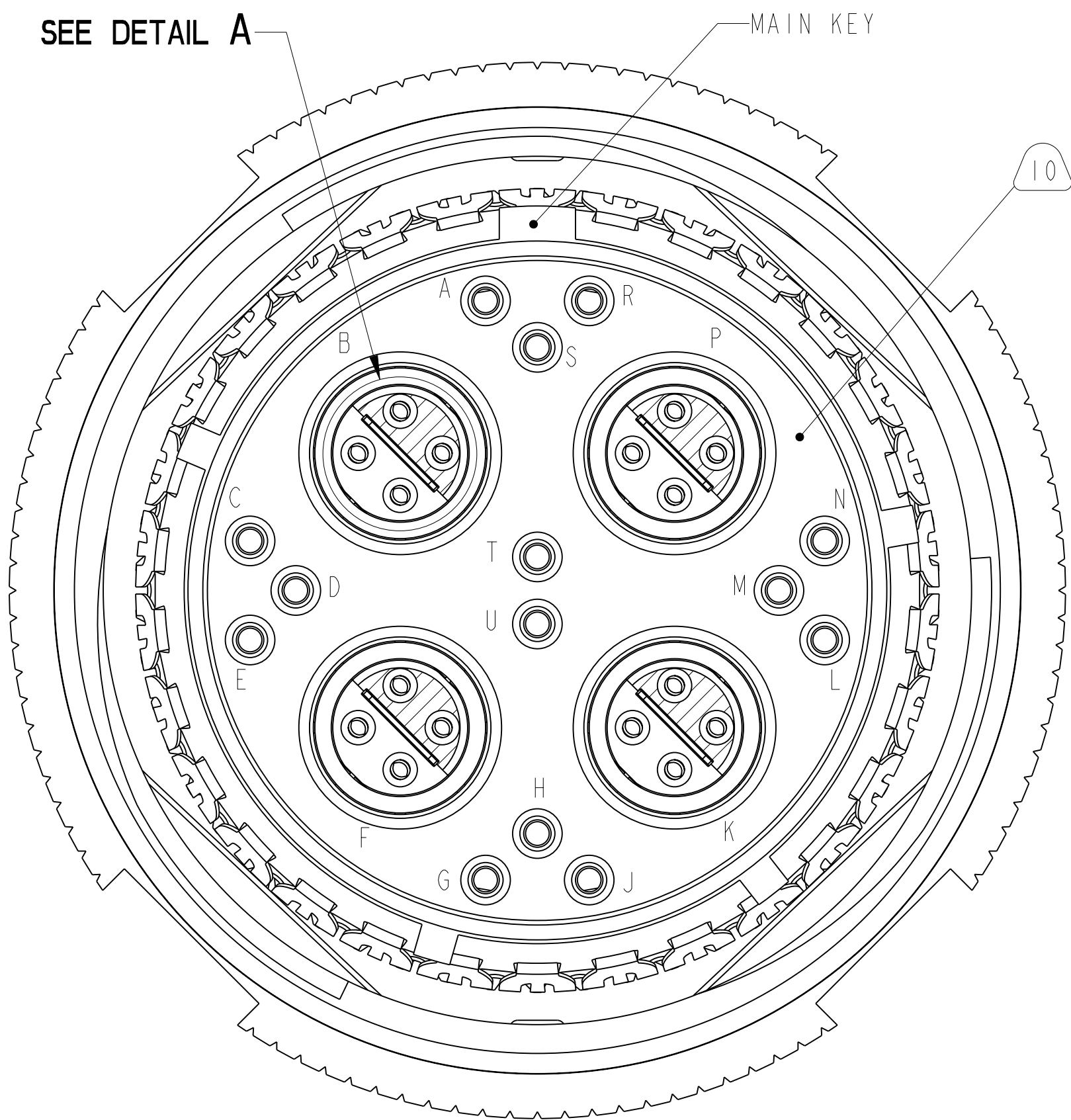
SHEET 1 OF 7

REV. A

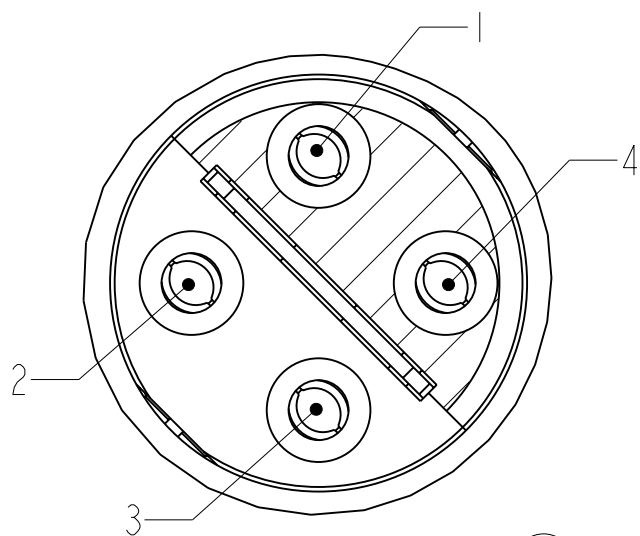
VERSION 9

C

D



VIEW AT A-A  
PI MATING INTERFACE  
SCALE 6.000



DETAIL A  
SCALE 12.000

SEE SHEET 7

NOTES:

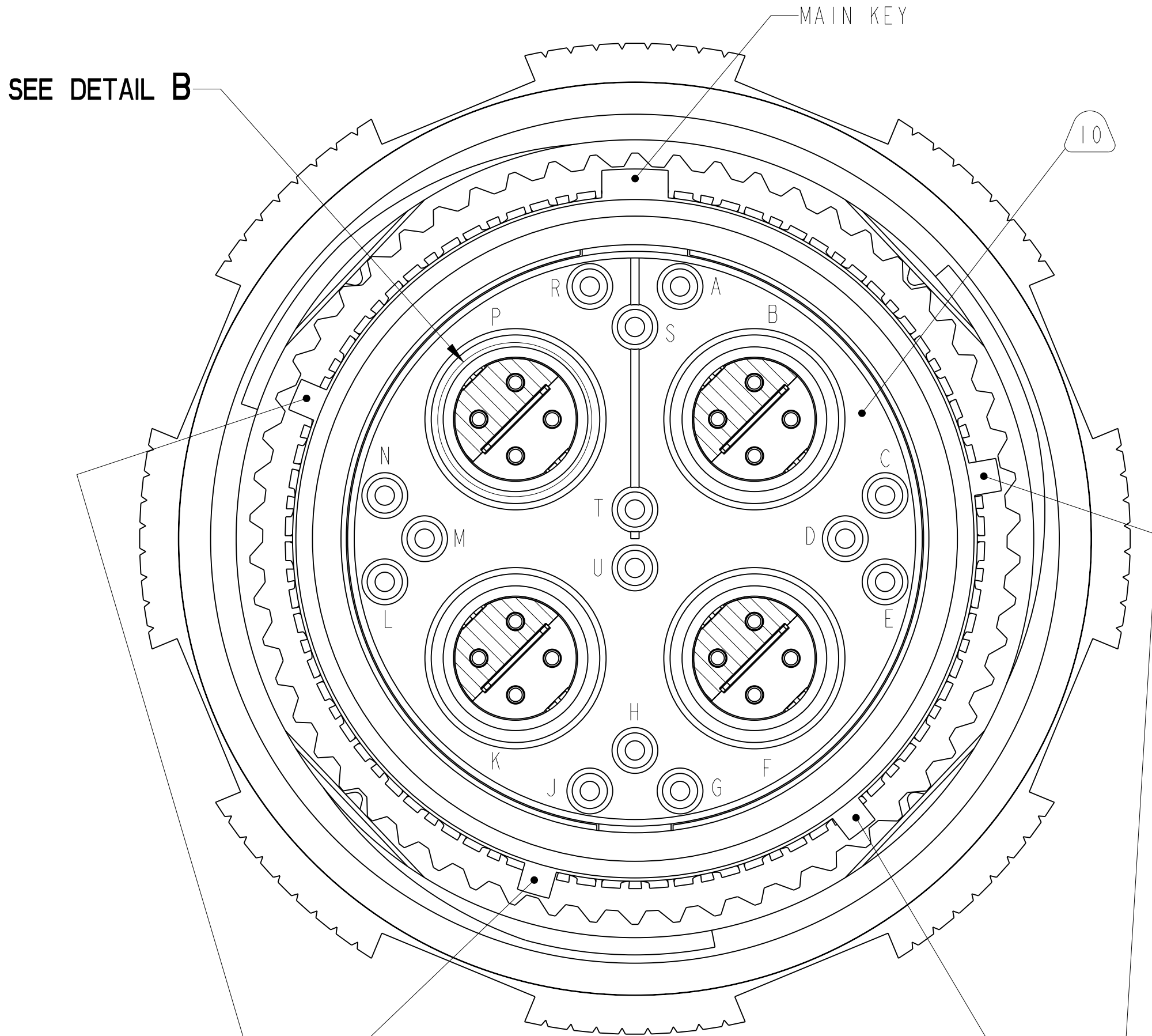
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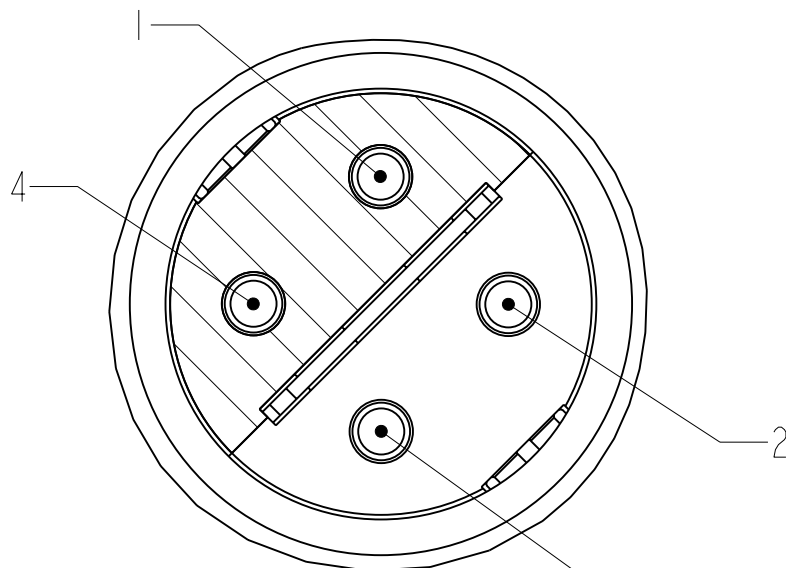
CA-628485-D05

SHEET 2 OF 7

REV. A



VIEW AT B-B  
P3 MATING INTERFACE  
SCALE 6.000



DETAIL B  
SCALE 12.000

CONNECTOR ROTATION  
SHOWN IS "N"  
ACTUAL ROTATION IS "A"

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-D05	A
SCALE: 0.5		REF: CA-628485-C85	SHEET 2 OF 7

SEE SHEET 7

NOTES:

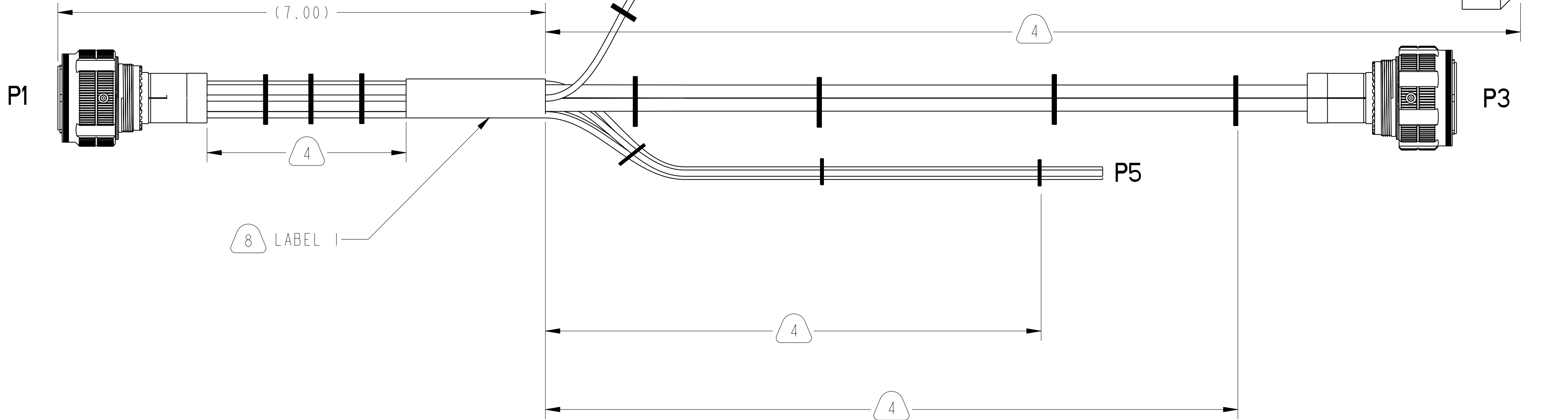
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CA-628485-D05

SHEET 3 OF 7

REV. A



4				3				2				CA-628485-D05 DOCUMENT NO. SHEET 4 OF 7 REV. A			
WIRING TABLE															
WIRE ID	PI ID	P2 ID	P3 ID	P4 ID	P5 ID	P6 ID	P7 ID	P8 ID	P9 ID	PI0 ID	PI1 ID	PI2 ID	COLOR-AWG	TWISTED PAIR	NOTE
1	---	1	---	---	---	1	---	---	---	---	---	---	WHITE-24	1	
2	---	2	---	---	---	2	---	---	---	---	---	---	BLUE-24		
3	---	3	---	---	---	3	---	---	---	---	---	---	WHITE-24	2	
4	---	4	---	---	---	4	---	---	---	---	---	---	BLUE-24		
5	---	5	---	---	---	---	---	---	---	---	---	1	WHITE-24	36	
6	---	6	---	---	---	---	---	---	---	11	---	---	ORANGE-24	---	
7	---	7	---	---	---	---	---	---	---	12	---	---	YELLOW-24	---	
8	---	8	---	---	---	---	---	---	---	3	---	---	BROWN-24	---	
9	---	9	---	---	---	---	---	---	---	---	5	---	RED-24	---	
10	---	10	---	---	---	---	---	---	---	---	---	---	---	---	
11	---	11	---	---	---	---	---	---	---	---	---	---	---	---	
12	---	12	---	---	---	---	---	---	---	---	---	---	---	---	
13	---	13	---	---	---	---	---	---	---	---	---	---	---	---	
14	---	14	---	---	---	---	---	---	---	6-116	---	---	BLACK-24	---	
15	---	15	---	---	---	---	---	---	---	13	---	---	BLUE-24	---	
16	---	16	---	---	---	---	---	---	---	8	---	---	BROWN-24	---	
17	---	17	---	---	---	---	---	---	---	---	---	2	BLUE-24	36	
18	---	18	---	---	---	---	---	---	---	---	---	4	WHITE-24	7	
19	---	19	---	---	---	---	---	---	---	6-89	---	---	BLACK-24	---	
20	---	20	---	---	---	---	---	---	---	7	---	---	ORANGE-24	---	
21	---	21	---	---	---	---	---	---	NC-69	---	---	---	WHITE-24	28	
22	---	22	---	---	---	---	---	---	NC-70	---	---	---	BLUE-24		
23	---	23	---	---	---	---	---	---	NC-71	---	---	---	WHITE-24	29	
24	---	24	---	---	---	---	---	---	NC-72	---	---	---	BLUE-24		
25	---	25	---	---	---	---	---	---	---	6-118	---	---	BLACK-24	---	
26	---	26	---	---	---	---	---	---	NC-75	---	---	---	BLUE-24	30	
27	---	27	---	---	---	---	---	---	NC-76	---	---	---	WHITE-24		
28	---	28	---	---	---	---	---	---	NC-77	---	---	---	BLUE-24	31	
29	---	29	---	---	---	---	---	---	NC-78	---	---	---	WHITE-24		
30	---	30	---	---	---	---	---	---	---	4	---	---	YELLOW-24	---	
31	---	31	---	---	---	---	---	---	---	6-91	---	---	BLACK-24	---	
32	---	32	---	---	---	---	---	---	NC-73	---	---	---	WHITE-24	32	
33	---	33	---	---	---	---	---	---	NC-74	---	---	---	BLUE-24		
34	---	34	---	---	---	---	---	---	---	6-93	---	---	BLACK-24	---	
35	---	35	---	---	---	---	---	---	NC-79	---	---	---	BLUE-24	33	
36	---	36	---	---	---	---	---	---	NC-80	---	---	---	WHITE-24		
37	---	37	---	---	---	---	---	---	---	5	---	---	GREEN-24	---	
38	---	38	---	---	---	---	---	---	---	6-88	---	---	BLACK-24	---	
39	---	39	---	---	---	9	---	---	---	---	---	---	WHITE-24	3	
40	---	40	---	---	---	10	---	---	---	---	---	---	BLUE-24		
41	---	41	---	---	---	11	---	---	---	---	---	---	WHITE-24	4	
42	---	42	---	---	---	12	---	---	---	---	---	---	BLUE-24		
SEE SHEET 7															
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DOCUMENT NO. CA-628485-D05				SHEET 4 OF 7				REV. A							
SIZE C				CAGE CODE 77820				DOCUMENT NO. CA-628485-D05				REV. A			
SCALE: 0.5				REF: CA-628485-C85				SHEET 4 OF 7							



4				3				2				CA-628485-D05 DOCUMENT NO. SHEET 5 OF 7 REV. A			
WIRING TABLE (CONTINUED)															
WIRE ID	PI ID	P2 ID	P3 ID	P4 ID	P5 ID	P6 ID	P7 ID	P8 ID	P9 ID	P10 ID	P11 ID	P12 ID	COLOR-AWG	TWISTED PAIR	NOTE
43	---	43	---	---	---	13	---	---	---	---	---	---	WHITE-24	5	
44	---	44	---	---	---	14	---	---	---	---	---	---	BLUE-24		
45	---	45	---	---	---	---	---	---	---	14	---	---	VIOLET-24	---	
46	---	46	---	9	---	---	---	---	---	---	---	---	WHITE-24	11	
47	---	47	---	10	---	---	---	---	---	---	---	---	BLUE-24		
48	---	48	---	1	---	---	---	---	---	---	---	---	WHITE-24	12	
49	---	49	---	2	---	---	---	---	---	---	---	---	BLUE-24		
50	---	50	---	5	---	---	---	---	---	---	---	---	WHITE-24	13	
51	---	51	---	10	---	---	---	---	---	---	---	---	BLUE-24		
52	---	52	---	3	---	---	---	---	---	---	---	---	WHITE-24	14	
53	---	53	---	10	---	---	---	---	---	---	---	---	BLUE-24		
54	---	54	---	---	---	---	---	---	---	6-95	---	---	BLACK-24	---	
55	---	55	---	---	---	---	---	---	---	15	---	---	RED-24	---	
56	---	56	---	---	---	---	---	---	---	16	---	---	GREY-24	---	
57	A	57	---	---	---	---	---	---	---	---	---	---	WHITE-24	9	
58	R	58	---	---	---	---	---	---	---	---	---	---	BLUE-24		
59	---	59	---	---	---	---	---	---	---	17	---	---	WHITE-24	---	
60	G	60	---	---	---	---	---	---	---	---	---	---	WHITE-24	10	
61	J	61	---	---	---	---	---	---	---	---	---	---	BLUE-24		
62	---	62	---	---	---	---	---	---	---	18	---	---	BROWN-24	---	
63	---	63	---	---	---	---	---	NC-53	---	---	---	---	WHITE-24	20	
64	---	64	---	---	---	---	---	NC-54	---	---	---	---	BLUE-24		
65	---	65	---	---	---	---	---	NC-55	---	---	---	---	WHITE-24	21	
66	---	66	---	---	---	---	---	NC-56	---	---	---	---	BLUE-24		
67	---	67	---	---	---	---	---	---	---	6-97	---	---	BLACK-24	---	
68	---	68	---	---	---	---	---	---	---	1	---	---	RED-24	---	
69	---	69	---	---	---	---	---	---	---	2	---	---	ORANGE-24	---	
70	---	70	---	---	---	---	---	---	---	6-101	---	---	BLACK-24	---	
71	---	71	---	---	---	---	---	NC-57	---	---	---	---	WHITE-24	22	
72	---	72	---	---	---	---	---	NC-58	---	---	---	---	BLUE-24		
73	---	73	---	---	---	---	---	---	---	6-103	---	---	BLACK-24	---	
74	---	74	---	---	---	---	---	NC-59	---	---	---	---	WHITE-24	23	
75	---	75	---	---	---	---	---	NC-60	---	---	---	---	BLUE-24		
76	---	76	---	---	---	---	---	---	---	---	---	3	BLUE-24	7	
77	---	77	---	---	---	---	---	---	NC-81	---	---	---	BLUE-24	8	
78	---	78	---	---	---	---	---	---	NC-82	---	---	---	WHITE-24		
79	---	79	---	---	---	5	---	---	---	---	---	---	WHITE-24	6	
80	---	80	---	---	---	6	---	---	---	---	---	---	BLUE-24		
81	---	81	---	---	---	---	---	---	---	6-99	---	---	BLACK-24	---	
82	---	82	---	---	---	---	---	NC-61	---	---	---	---	WHITE-24	24	
83	---	83	---	---	---	---	---	NC-62	---	---	---	---	BLUE-24		
84	---	84	---	---	---	---	---	NC-63	---	---	---	---	WHITE-24	25	
85	---	85	---	---	---	---	---	NC-64	---	---	---	---	BLUE-24		
SEE SHEET 7															
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4				3				2				CA-628485-D05 DOCUMENT NO. SHEET 6 OF 7 REV. A						
CA-628485-D05 DOCUMENT NO. SHEET 6 OF 7 REV. A	WIRING TABLE (CONTINUED)																CA-628485-D05 DOCUMENT NO. SHEET 6 OF 7 REV. A	
	WIRE ID	PI ID	P2 ID	P3 ID	P4 ID	P5 ID	P6 ID	P7 ID	P8 ID	P9 ID	PI0 ID	PI1 ID	PI2 ID	COLOR-AWG	TWISTED PAIR	NOTE		
	86	---	86	---	---	---	---	---	---	---	10	---	---	VIOLET-24	---			
	87	---	87	---	---	---	---	---	---	---	---	---	5	BLACK-24	---			
	88	---	88	---	---	---	---	---	NC-65	---	---	---	---	WHITE-24	26			
	89	---	89	---	---	---	---	---	NC-66	---	---	---	---	BLUE-24				
	90	---	90	---	---	---	---	---	NC-67	---	---	---	---	WHITE-24	27			
	91	---	91	---	---	---	---	---	NC-68	---	---	---	---	BLUE-24				
	92	---	92	---	---	---	---	---	---	---	6-107	---	---	BLACK-24	---			
	93	---	93	---	---	---	---	---	---	---	9	---	---	GREEN-24	---			
	94	---	94	---	---	---	---	---	---	---	---	1	---	WHITE-24	34			
	95	---	95	---	---	---	---	---	---	---	---	2	---	BLUE-24				
	96	---	96	---	---	---	---	---	---	---	6-100	---	---	BLACK-24	---			
	97	---	97	---	---	---	---	---	---	---	---	4	---	WHITE-24	35			
	98	---	98	---	---	---	---	---	---	---	---	3	---	BLUE-24				
	99	---	99	---	---	---	---	P	---	---	---	---	---	WHITE-24	19			
	100	---	100	---	---	---	---	N	---	---	---	---	---	BLUE-24				
	101	F1	---	F1	---	---	---	---	---	---	---	---	---	RED-24	QUADRAX 1			
	102	F2	---	F2	---	---	---	---	---	---	---	---	---	YELLOW-24				
	103	F3	---	F3	---	---	---	---	---	---	---	---	---	GREEN-24				
	104	F4	---	F4	---	---	---	---	---	---	---	---	---	BLUE-24				
	105	F-OUTER	---	F-OUTER	---	---	---	---	---	---	---	---	---	---	---	---		
	106	B1	---	B1	---	---	---	---	---	---	---	---	---	RED-24	QUADRAX 2			
	107	B2	---	B2	---	---	---	---	---	---	---	---	---	YELLOW-24				
	108	B3	---	B3	---	---	---	---	---	---	---	---	---	GREEN-24				
	109	B4	---	B4	---	---	---	---	---	---	---	---	---	BLUE-24				
	110	B-OUTER	---	B-OUTER	---	---	---	---	---	---	---	---	---	---	---	---		
	111	P1	---	P1	---	---	---	---	---	---	---	---	---	RED-24	QUADRAX 3			
112	P2	---	P2	---	---	---	---	---	---	---	---	---	YELLOW-24					
113	P3	---	P3	---	---	---	---	---	---	---	---	---	GREEN-24					
114	P4	---	P4	---	---	---	---	---	---	---	---	---	BLUE-24					
115	P-OUTER	---	P-OUTER	---	---	---	---	---	---	---	---	---	---	---	---			
116	K1	---	K1	---	---	---	---	---	---	---	---	---	RED-24	QUADRAX 4				
117	K2	---	K2	---	---	---	---	---	---	---	---	---	YELLOW-24					
118	K3	---	K3	---	---	---	---	---	---	---	---	---	GREEN-24					
119	K4	---	K4	---	---	---	---	---	---	---	---	---	BLUE-24					
120	K-OUTER	---	K-OUTER	---	---	---	---	---	---	---	---	---	---	---	---			
121	N	---	---	---	9	---	---	---	---	---	---	---	WHITE-24	15				
122	M	---	---	---	10-28	---	---	---	---	---	---	---	BLUE-24					
123	T	---	---	---	1	---	---	---	---	---	---	---	WHITE-24	16				
124	U	---	---	---	2	---	---	---	---	---	---	---	BLUE-24					
125	L	---	---	---	5	---	---	---	---	---	---	---	WHITE-24	17				
126	M	---	---	---	10-32	---	---	---	---	---	---	---	BLUE-24					
127	C	---	---	---	3	---	---	---	---	---	---	---	WHITE-24	18				
128	D	---	---	---	10-34	---	---	---	---	---	---	---	BLUE-24					
SEE SHEET 7																		
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3				2				1										
CA-628485-D05 DOCUMENT NO. SHEET 6 OF 7 REV. A																		
SIZE C				CAGE CODE 77820				DOCUMENT NO. CA-628485-D05				REV. A						
SCALE: 0.5				REF: CA-628485-C85				SHEET 6 OF 7										

4		3		2		<div>CA-628485-D05</div> <div>SHEET 7 OF 7</div> <div>A</div>	
CA-628485-D05	DOCUMENT NO.	SHEET 7 OF 7	REV.	A	ELECTRICAL TEST TABLE		<div>11</div>
					DESCRIPTION	REQUIREMENT	
					PINOUT/CONTINUITY	PER WIRING TABLE	
					INSULATION RESISTANCE	500 VDC FOR 5 SEC. 100 MEGOHM MIN.	
<div>11. CABLES TO BE TESTED IN ACCORDANCE WITH ELECTRICAL TEST TABLE.</div> <div>10. SEE LQ-21818-18 FOR ARRANGEMENT DETAILS.</div> <div>9. THE END TO END ORIENTATION OF PIN TO SOCKET SPLIT-PAIR QUADRIX CONTACTS TO BE WITHIN ±7.5°.</div> <div>8. CONNECTOR ID LABEL SHALL BE ON MAIN BRANCH AS SHOWN AND SHALL HAVE THE FOLLOWING DATA: AMPHENOL, PART NUMBER, LOT NUMBER, SEVEN DIGIT SERIALIZED DATE CODE (9-9172-3) . EXAMPLE: <div>AMPHENOL CA-628485-D05 1812345 1801001</div></div> <div>7. DRAWING NOT SHOWN TO SCALE.</div> <div>6. CABLE ASSEMBLY SHALL BE WIRED IN ACCORDANCE WITH WIRING TABLE.</div> <div>5. THE INDIVIDUAL PIGTAIL WIRES SHALL BE MARKED WITH REMOVABLE TAGS USING THE FOLLOWING METHOD: CONNECTOR REFERENCE DESIGNATOR AND PIN NUMBER. EXAMPLE: P6-4</div> <div>4. P4 THRU P12 SHALL BE BUNDLED IN GROUPS PER WIRING TABLE. CABLE TIES AFFIXED TO PREVENT SEPARATION OF BUNDLES. CABLE TIES NOT ILLUSTRATED ON P4, P6, P7 THRU P10 AND P11 THRU P12 BRANCHES.</div> <div>3. CONNECTOR P4 THRU P12 TO BE TERMINATED BY END USER.</div> <div>2. ALL SOLDER JOINTS IAW J-STD-001, CLASS 3.</div> <div>1. CABLE ASSEMBLY SHALL BE MANUFACTURED IAW IPC/WHMA-A-620, CLASS 3.</div> <div>NOTES:</div> <div>THE USE OF THIS DOCUMENT IS UNLIMITED. HOWEVER, DOCUMENTS REFERENCED HEREON MAY CONTAIN LIMITED RIGHTS DATA.</div> <div>RELEASED / Jan . 17 2018, 10:26:12 AM</div> <div>CA-628485-D05</div> <div>SHEET 7 OF 7</div> <div>A</div> <div>3</div> <div>2</div> <div>1</div> <div>CA-628485-D05</div> <div>DOCUMENT NO.</div> <div>SHEET 7 OF 7</div> <div>REV.</div> <div>A</div> <div>9</div> <div>A</div> <div>Eng. PDM Information For Reference Only</div> <div>REVISION</div> <div>A</div> <div>VERSION</div> <div>9</div>							