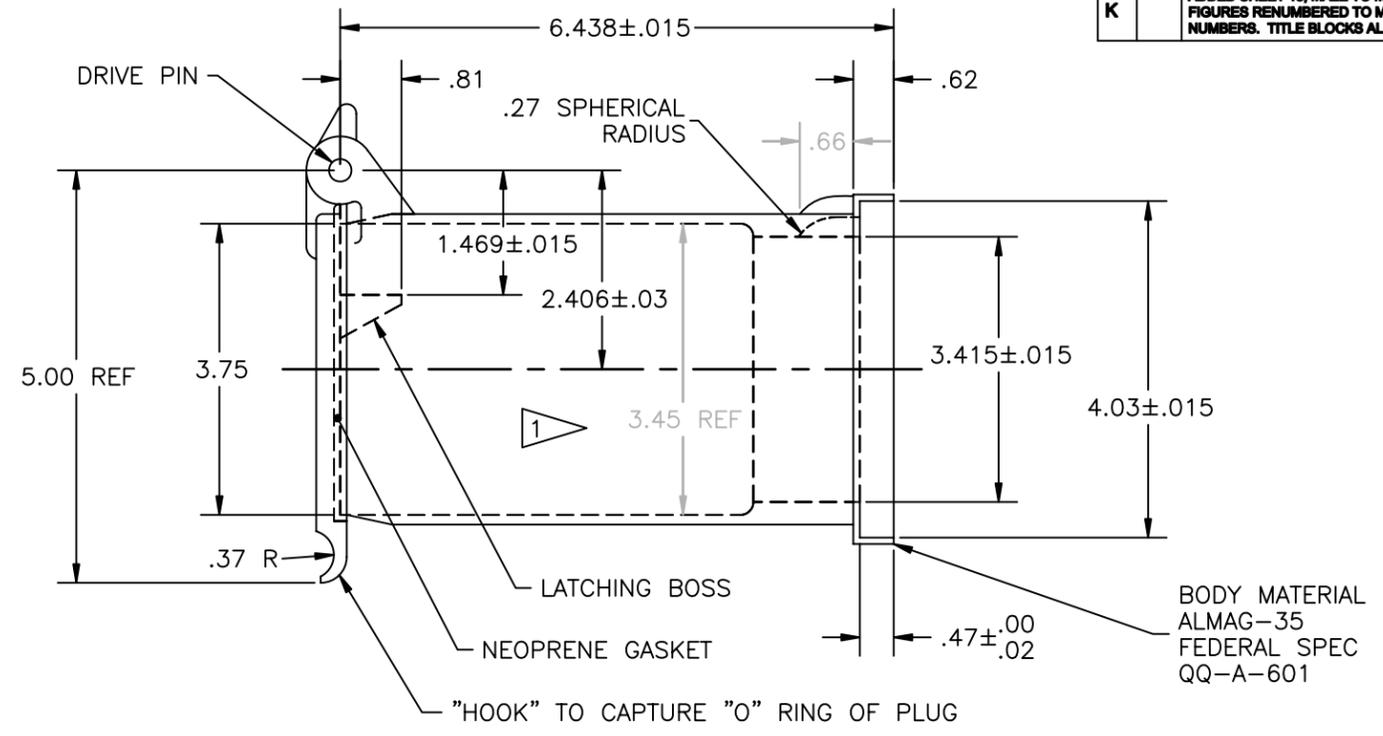
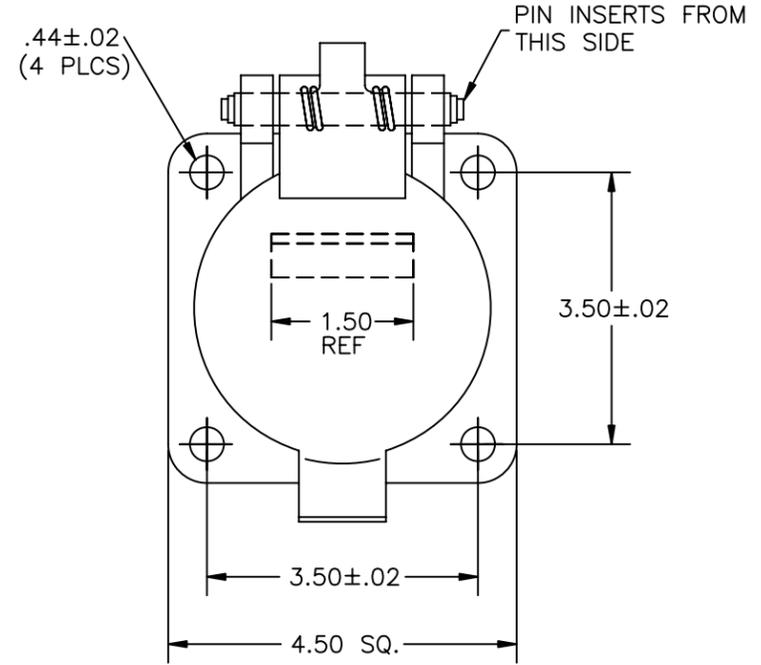


K	D-12-7191
REV.	DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
J		SHEETS 1 THRU 8 & 10 THRU 12 REDRAWN WITHOUT CHANGE. SHEET 9, ADDED ITEM 12. ADDED CLEMENTS NATIONAL & GE TO TABULATION. DWG TITLE WAS "CONNECTION JUMPER CABLE ASSY".	JC 1/15/98	RFB 4/15/98
K		ADDED SHEET 13, MALE TO MALE JUMPER. FIGURES RENUMBERED TO MATCH SHEET NUMBERS. TITLE BLOCKS ALL ALIKE.	GM 9/03/08	MD 9/08/08



ITEM	AMTRAK P/N	PYLE NATIONAL	ANDERSON	CLEMENTS NATIONAL	G & G TRANSIT
1	25 426 02806	RPC-17-WO		MRA-H	55001520

FIGURE 1
480V, 400A, OUTLET HOUSING

NOTES

- VENDOR NAME, AMMS NO. AND DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
- HOUSING TO BE PAINTED OSHA RED.

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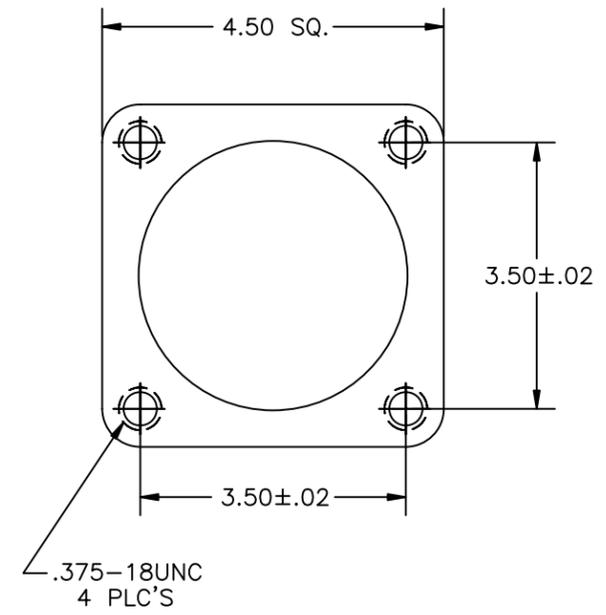
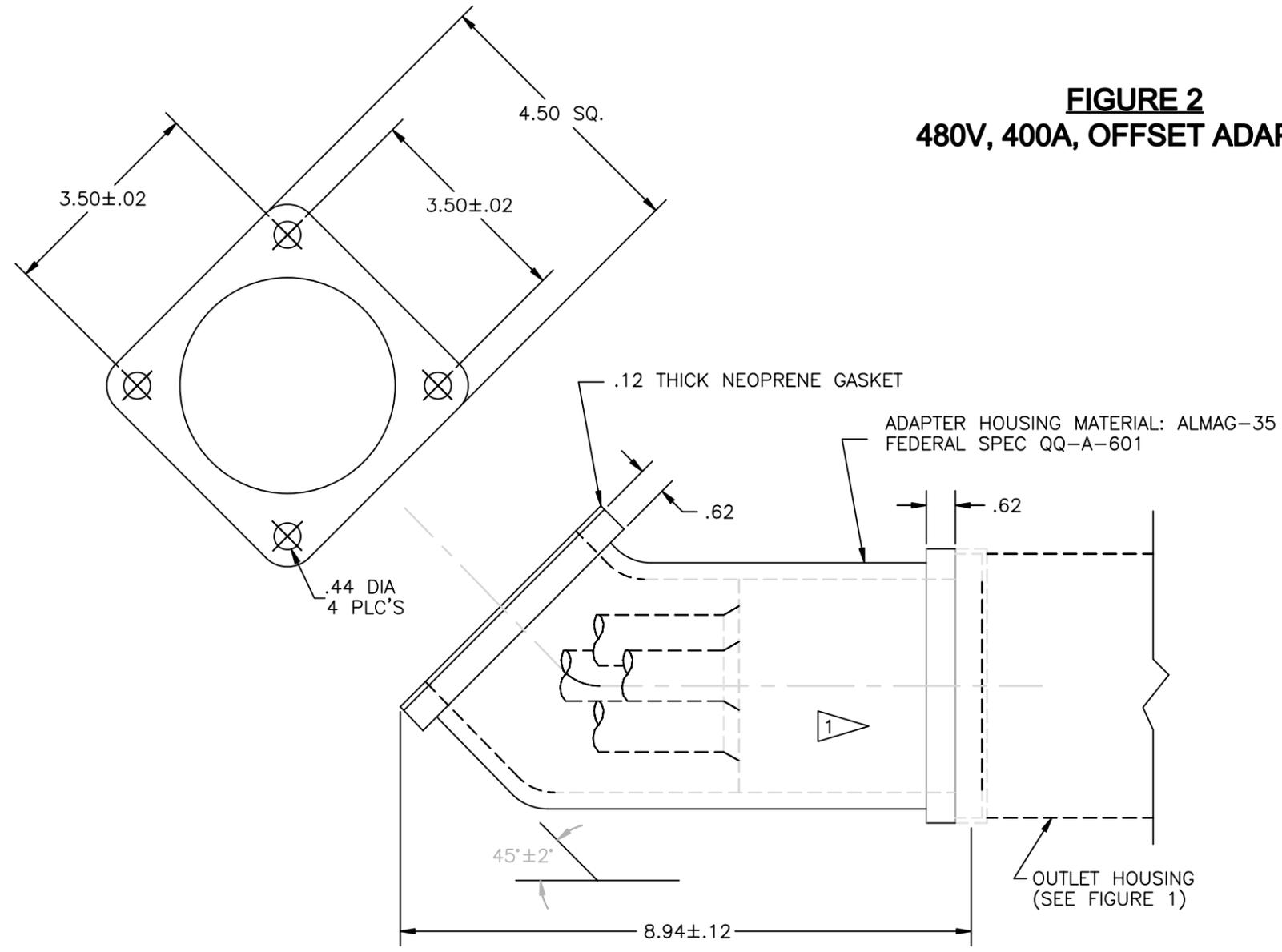
THE AMTRAK DRAWING IS THE GOVERNING DOCUMENT, AND SUPERSEDES ANY LIKE INFORMATION ON REFERENCE DRAWINGS, PART NUMBERS, SPECIFICATIONS, ETC.

QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
LIST OF MATERIAL						
		REFERENCE DRAWINGS	AMTRAK		TITLE 480V TRAINLINE JUMPERS, PLUGS AND RECEPTACLES	
			<small>Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 4001 Westmore Ave., Washington, DC 20001</small>			
SPEC 223		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	TOLERANCES		<small>Drawn: G. MARZOLI Date: 10/29/08 Approved: Approved D.C.</small> <small>Checked: M. DELIZO Date: 11/09/08 Approved: For Issue</small> <small>Scale: SCALE DRAWING NUMBER</small> <small>REV. 1 OF 13</small>	
PROGRAM	NEXT ASSY	USED ON	<small>Remove all burrs & break sharp edges.</small>			
		DO NOT SCALE DRAWING	D-12-7191		K	

K	D-12-7191
REV.	DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	-	SEE SHEET 1		

FIGURE 2
480V, 400A, OFFSET ADAPTER



ITEM	AMTRAK P/N	ANDERSON	PYLE-NATIONAL	CLEMENTS NATIONAL		
1						

NOTES

- VENDOR NAME, AMMS NO. AND DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
- HOUSING TO BE PAINTED OSHA RED.

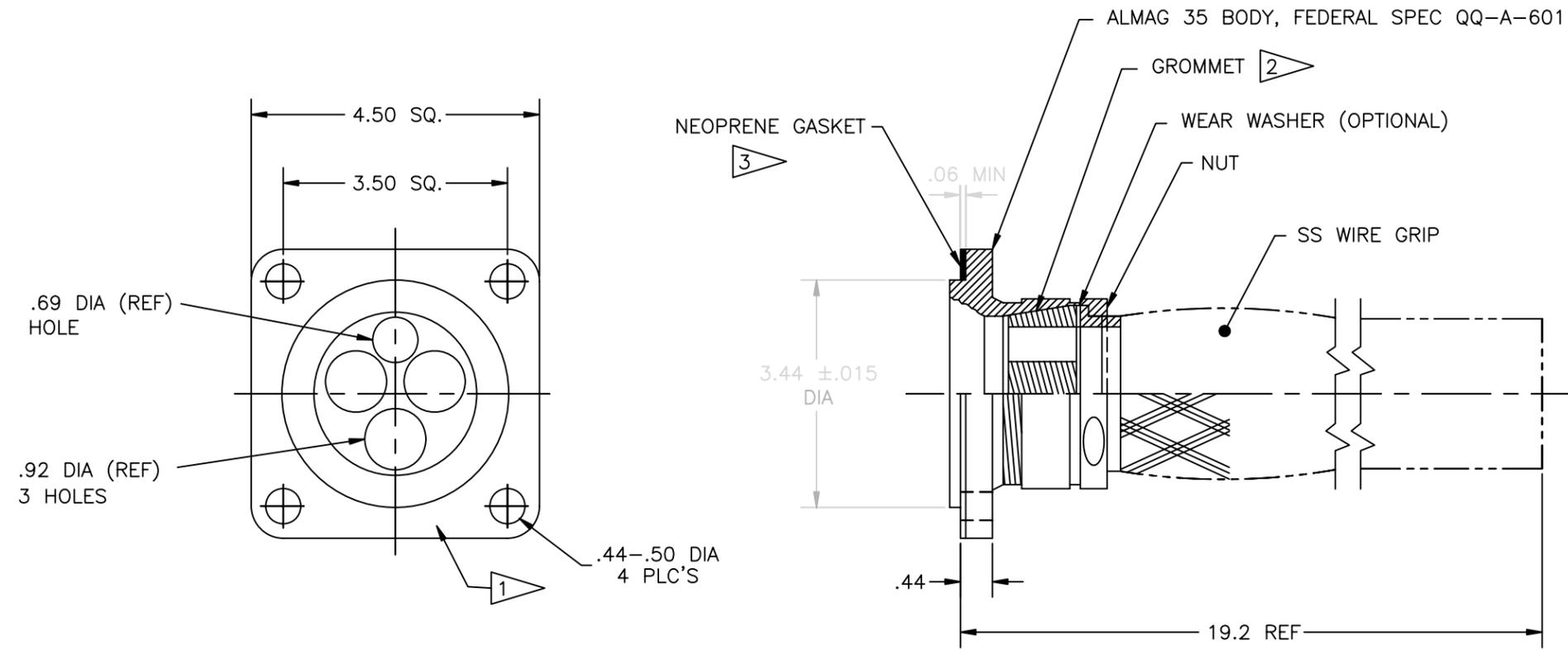
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QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
LIST OF MATERIAL						
		REFERENCE DRAWINGS			TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES	
			<small>Mechanical Department Bureau of Rolling Stock Engineering National Passenger Institute 4001 Westmore Ave., Washington, DC 20007</small>			
SPEC 223		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	<small>Drawings are to be made in accordance with the following standards: ASME Y14.5-2000 ANSI Z39.1-2003</small>		Drawn: G. MARZOLI Date: 10/28/09 Checked: M. DELIZZO Date: 11/09/09 Scale: 1:1 Drawing Number: D-12-7191	Approved: [Signature] Date: [Date] For Issue: [Date]
PROGRAM	NEXT ASSY	USED ON	DO NOT SCALE DRAWING		SCALE	REV. K
Remove all burrs & break sharp edges.						1 D-12-7191.dwg

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D-12-7191
REV
DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	-	SEE SHEET 1	-	-



ITEM	AMTRAK P/N	ANDERSON	PYLE NATIONAL	CLEMENTS NATIONAL	G & G TRANSIT
1	25 789 80008		RPC-2124	MPA-SR	55001312

NOTES

- 1 VENDOR NAME, AMMS NO. AND DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
- 2 WHEN INSTALLED, THE GROMMET MUST FORM A WATERTIGHT SEAL AGAINST 30 PSIG BETWEEN ITSELF AND THE BODY, AS WELL AS ITSELF AND THE CABLES UTILIZED IN THE ASSEMBLIES SPECIFIED APPENDIX A.
- 3 FLANGE GASKET SHALL SEAL AGAINST 30 PSIG AIR PRESSURE.

**FIGURE 3
FLANGE-MOUNTED CABLE GRIP
(FIXED JUMPER)**

ESTIMATED WEIGHT 1.5 LBS.

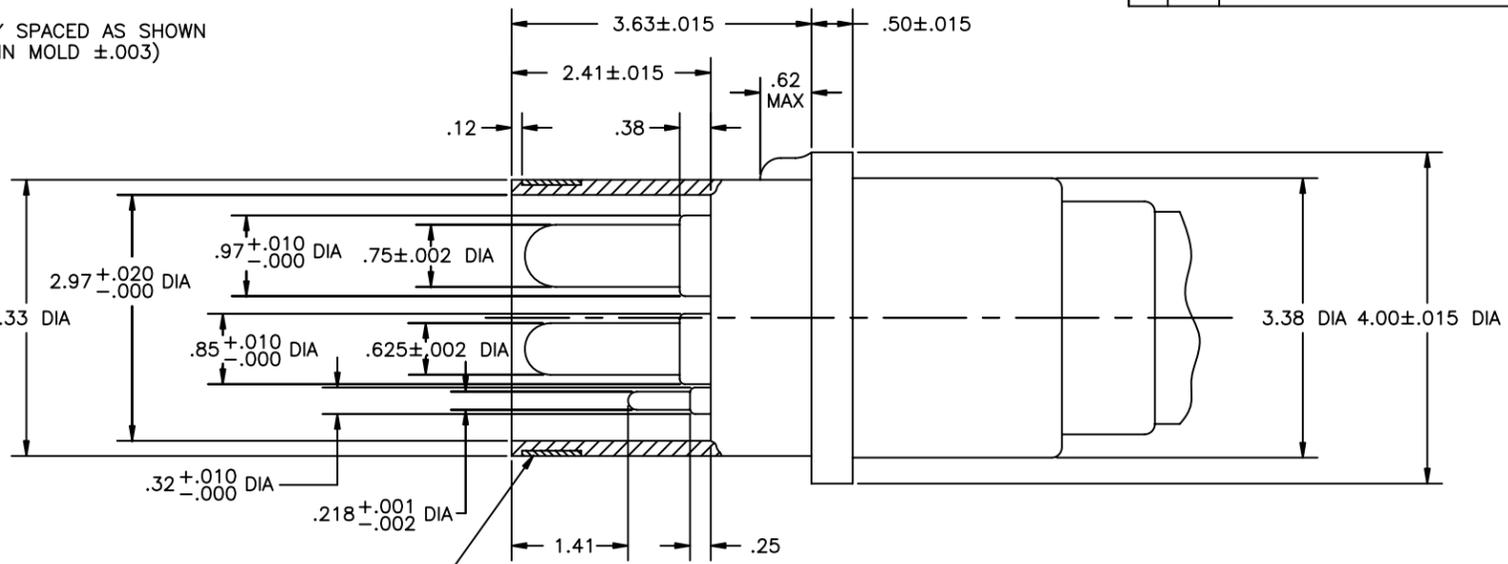
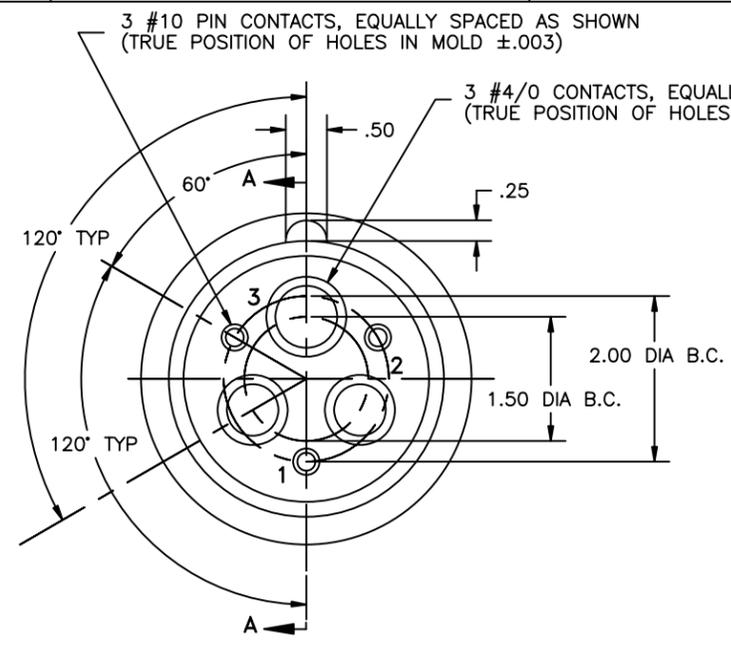
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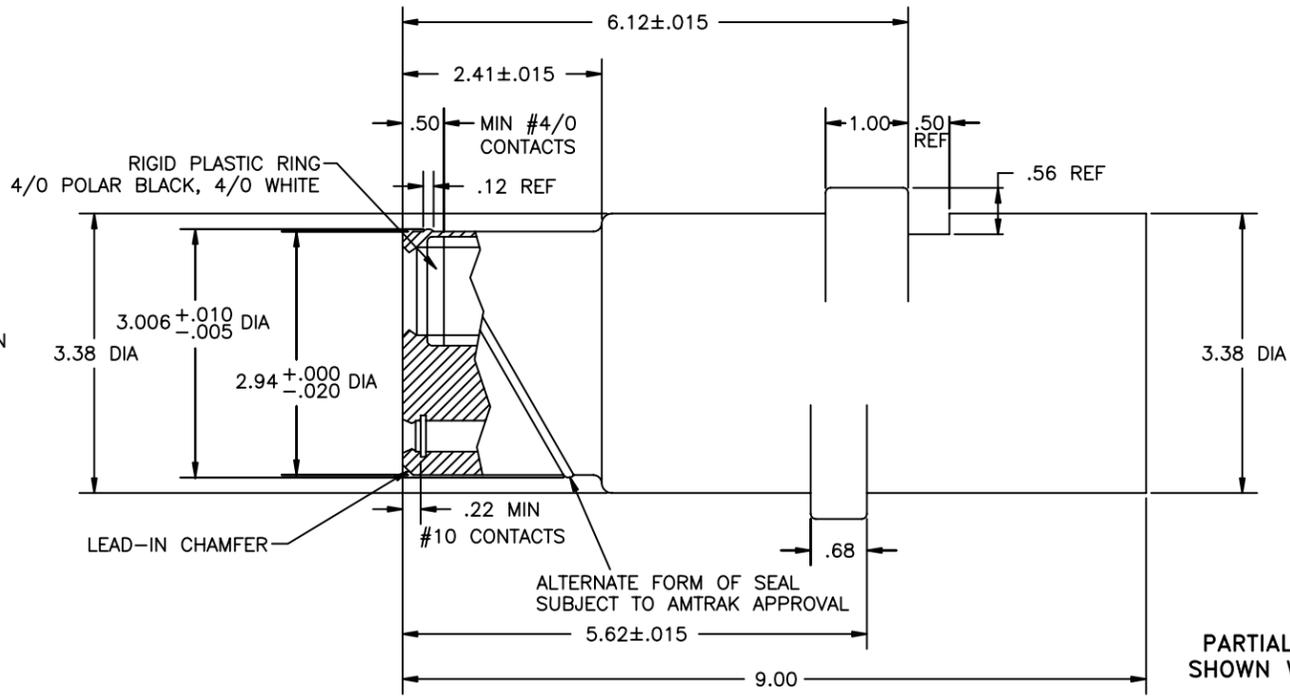
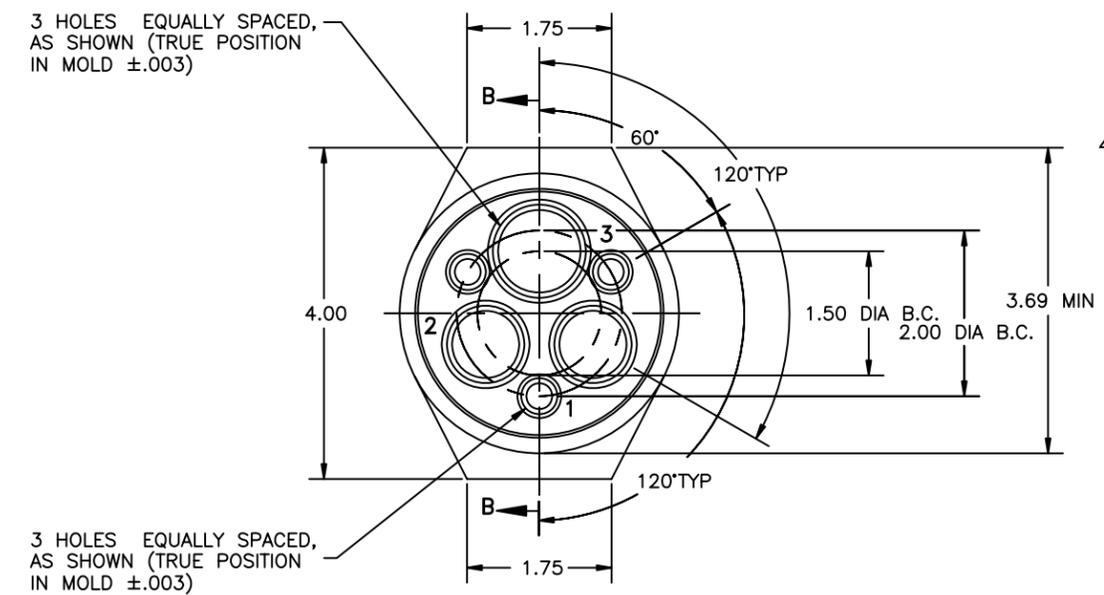
QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
LIST OF MATERIAL						
		REFERENCE DRAWINGS	<p>Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 4001 Westwood Ave, Washington DC 20004</p> <p>Drawn: G. MARZOLI Date: 10/29/09 Approved: Approved D.C. Checked: M. DELIZZO Date: 11/09/09 Approved: For Issue Scale: SCALE DRAWING NUMBER: D-12-7191 REV: K REV. 3 OF 15</p>			
SPEC 223		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	TOLERANCES			
PROGRAM	NEXT ASSY	USED ON	DO NOT SCALE DRAWING	Remove all burrs & break sharp edges.		

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D-12-7191
REV
DRAWING NUMBER

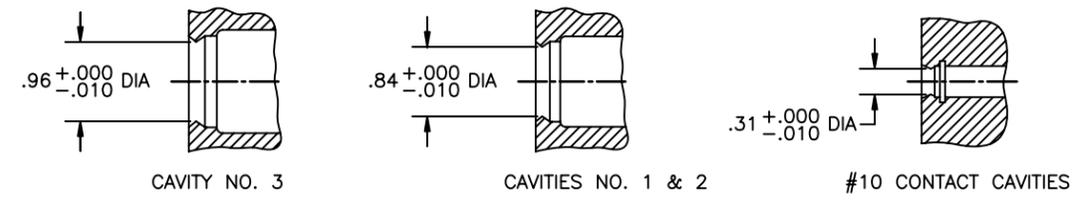
REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	-	SEE SHEET 1		



RECEPTACLE
PARTIAL SECTION A-A



PLUG
PARTIAL SECTION B-B
SHOWN WITHOUT SOCKETS



CAVITY CLIP SEAL DIA.

FIGURE 4
480V, 400A, PLUG AND
RECEPTACLE INTERFACE
DIMENSIONS

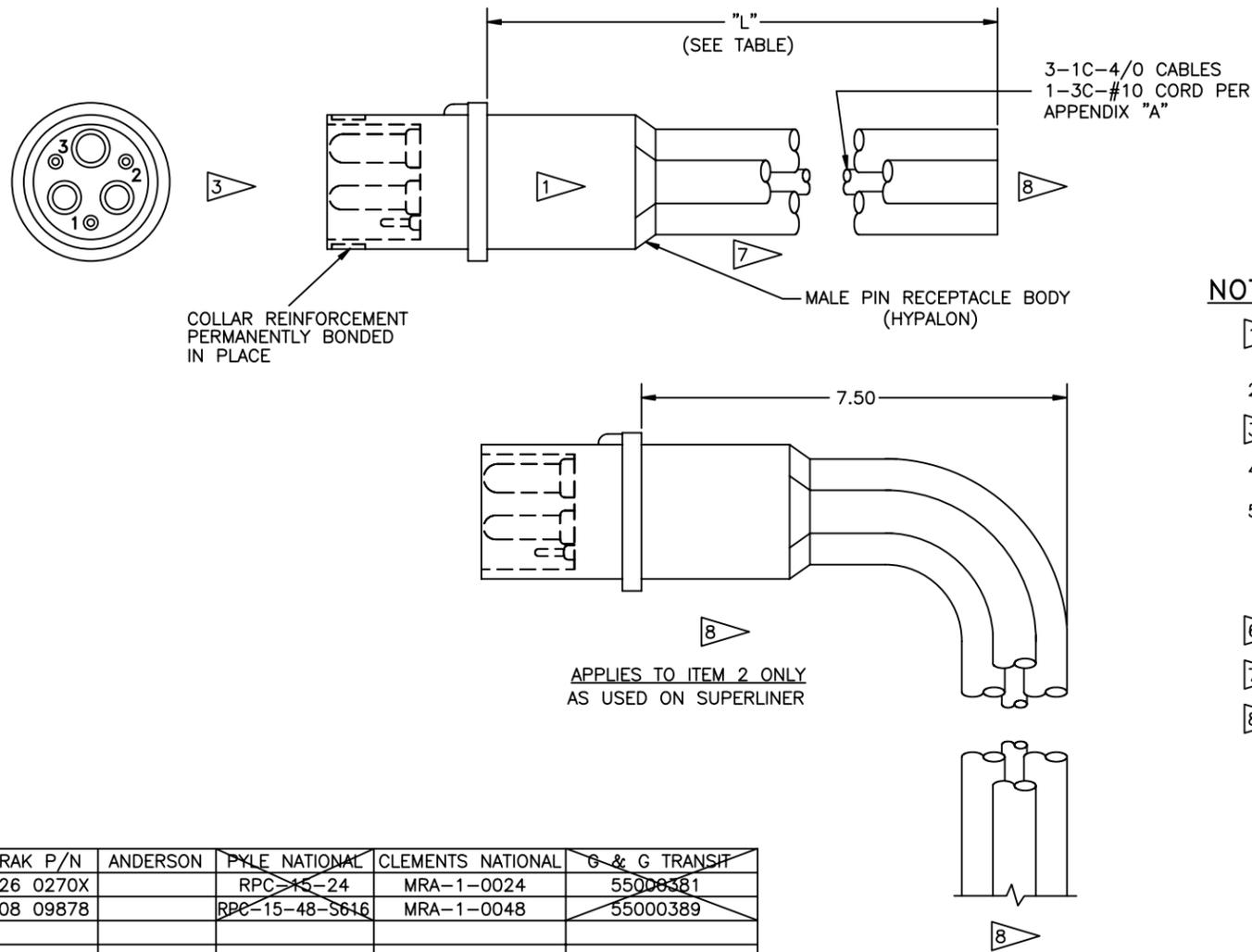
QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
LIST OF MATERIAL						
REFERENCE DRAWINGS						
Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 400 North Ave., Washington, DC 20001						
SPEC 223		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	TOLERANCES		TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES	
PROGRAM	NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. Remove all burrs & break sharp edges.	Drawn G. MARZOLI Date 10/29/09	Approved M. DELIZIO Date 11/09/09	Approved For Issue D.C.
DO NOT SCALE DRAWING				SCALE	DRAWING NUMBER	REV.
				4 OF 13	D-12-7191	K

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K
D-12-7191
REV. DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	-	SEE SHEET 1		



NOTES

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- 2 INTEGRALLY MOLDED BODY TO BE RED IN COLOR, 60-70 DUROMETER.
- 3 REFER TO FIGURE 4, SHEET 4 FOR INTERFACE DIMENSIONS.
- 4 PHASE ROTATION 1, 2, 3.
- 5 COLOR CODE OF 4/0 & #10 CONDUCTORS:
#1 BLACK
#2 WHITE
#3 RED
- 6 PIGTAIL SUBJECT TO SHARP BEND AS INSTALLED IN SUPERLINER.
- 7 INDIVIDUAL #10 CONDUCTORS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.
- 8 APPLY HEAT SHRINK TUBING BAND, 3/4" WIDE, AT 1" IN FROM FREE END OF 4/0 CABLE COLOR PER NOTE 5.

ITEM	LENGTH	WEIGHT "LBS"	AMTRAK P/N	ANDERSON	PLYE NATIONAL	CLEMENTS NATIONAL	G & G TRANSIT
1	24"±2"	10.0	25 426 0270X		RPC-15-24	MRA-1-0024	55000381
2	48"±2"	17.5	24 808 09878		RPC-15-48-S616	MRA-1-0048	55000389
3	180"±2"						

FIGURE 5
480V, 400A, OUTLET CABLE ASS'Y

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LIST OF MATERIAL						
		REFERENCE DRAWINGS	AMTRAK		TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES	
			<small>Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 4001 Westwood Ave, Washington DC 20001</small>			
SPEC 223		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	TOLERANCES Dimensions are in inches unless otherwise specified.		Drawn: G. MARZOLI Date: 10/29/09 Approved: Approved D.C. Checked: M. DELIZZO Date: 11/09/09 Approved: For Issue Scale: SCALE DRAWING NUMBER: D-12-7191 REV.	
PROGRAM	NEXT ASS'Y	USED ON	DO NOT SCALE DRAWING	SHEET 5 OF 13 D-12-7191.dwg		K

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REV
D-12-7191
DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	SEE SHEET 1			

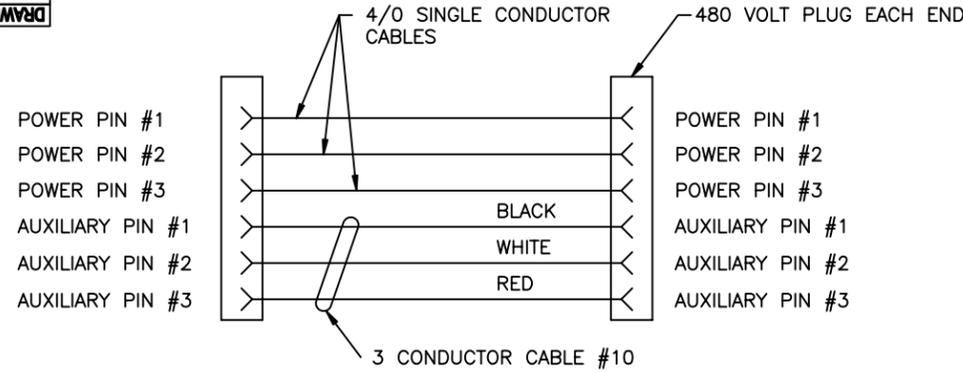
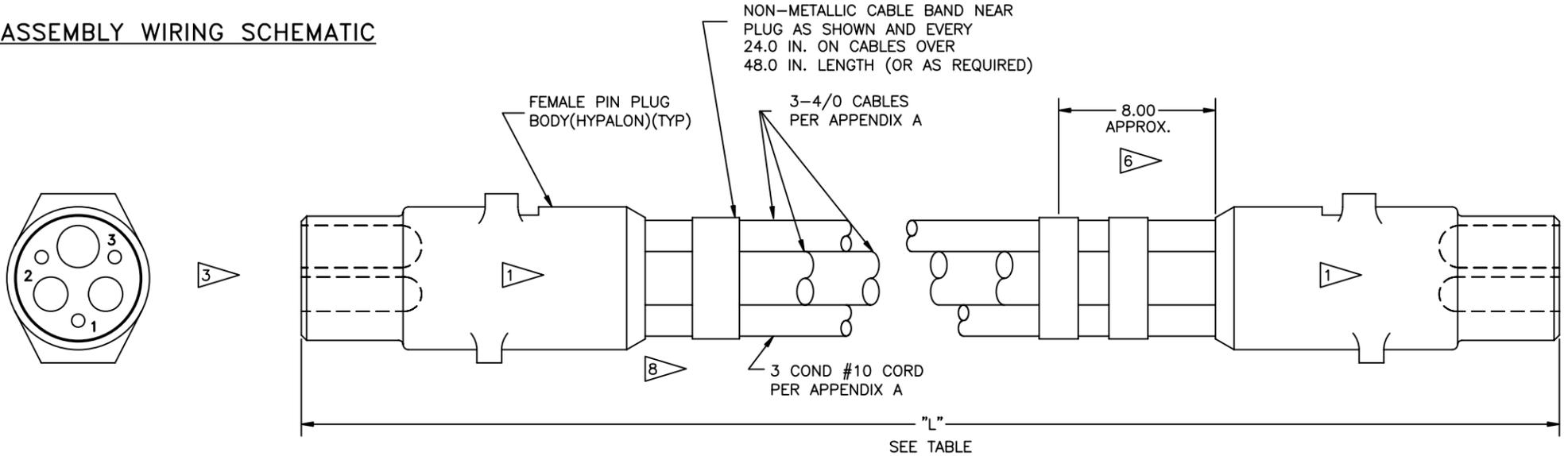


FIGURE 6
480V, 400A, PORTABLE
JUMPER CABLE ASSEMBLY

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JUMPER CABLE ASSEMBLY WIRING SCHEMATIC



NOTES:

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- 2 INTEGRALLY MOLDED BODY TO BE YELLOW IN COLOR, 60-70 DUROMETER.
- 3 REFER TO FIGURE 4, (SHEET 4) FOR INTERFACE DIMENSIONS.
- 4 PHASE ROTATION 1, 2, 3.
- 5 COLOR CODE OF 4/0 & #10 CONDUCTORS:
#1 BLACK
#2 WHITE
#3 RED
- 6 MINIMUM OF THREE WRAPS 1.50" WIDE PVC TAPE COLORED (OSHA COLORS) AS SHOWN ABOVE

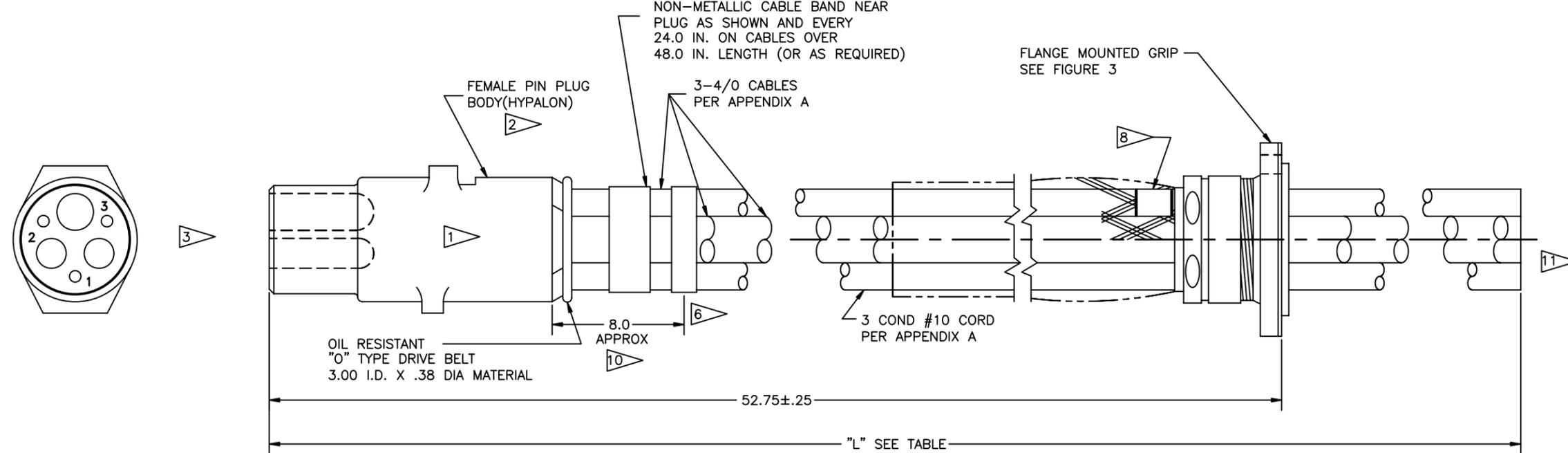
YEAR ENDING IN	COLOR
1, 4, 7	BLUE
2, 5, 8	YELLOW
3, 6, 9	RED
0	GREEN
- 7 PROVIDE SLACK IN 3/C CORD FOR STRAIN RELIEF (4/0 CABLE TAKES STRAIN).
- 8 INDIVIDUAL #10 CONDUCTORS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.

ITEM	LENGTH	AMTRAK P/N	WEIGHT "LBS"	ANDERSON	PYLE NATIONAL	CLEMENTS NATIONAL	G & G TRANSIT
1	51"±1/2"	25 426 02603	20.0		RPC-10-051	MPA-2-0051	55000358
2	84"±1/2"	25 426 02507	28.0		RPC-10-084	MPA-2-0084	55000361
3	10'±1"	24 422 07040	37.0		RPC-10-120	MPA-2-0120	55000354
4	25'±2"	25 426 01408	82.0		RPC-10-300	MPA-2-0300	55000357
5	50'±2"	24 045 0057X	157.0		RPC-10-600	MPA-2-0600	55000359
6	100±2"	25 426 01301	307.0		RPC-10-1200	MPA-2-1200	55000355

QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM								
LIST OF MATERIAL														
		REFERENCE DRAWINGS	AMTRAK		TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES									
		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 400 Westmore Ave. Washington DC 20001		<table border="1"> <tr> <td>Drawn G. MARZOLI</td> <td>Date 10/29/09</td> <td>Approved</td> <td>Approved</td> </tr> <tr> <td>Checked M. DELIZZO</td> <td>Date 11/09/09</td> <td>Approved</td> <td>For Issue</td> </tr> </table>		Drawn G. MARZOLI	Date 10/29/09	Approved	Approved	Checked M. DELIZZO	Date 11/09/09	Approved	For Issue
Drawn G. MARZOLI	Date 10/29/09	Approved	Approved											
Checked M. DELIZZO	Date 11/09/09	Approved	For Issue											
		DO NOT SCALE DRAWING	TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS: 1/16" & 1/32" DECIMALS: .001" & .010" ANGLES: ±1°		SCALE DRAWING NUMBER D-12-7191									
		PROGRAM	Remove all burrs & break sharp edges.		REV. 9 OF 13									

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D-12-7191
REV
DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-		SEE SHEET 1		



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- 2 INTEGRALLY MOLDED BODY TO BE YELLOW IN COLOR, 60-70 DUROMETER.
- 3 REFER TO FIGURE 4 (SHEET 4) FOR INTERFACE DIMENSIONS.
- 4 PHASE ROTATION 1, 2, 3.
- 5 COLOR CODE OF 4/0 & #10 CONDUCTORS: #1 BLACK, #2 WHITE, #3 RED.
- 6 MINIMUM OF THREE WRAPS 1.50" WIDE PVC TAPE COLORED (OSHA COLORS) AS SHOWN ABOVE

YEAR ENDING IN	COLOR
1, 4, 7	BLUE
2, 5, 8	YELLOW
3, 6, 9	RED
0	GREEN
- 7 PROVIDE SLACK IN 3/C CORD FOR STRAIN RELIEF (4/0 CABLE TAKES STRAIN).
- 8 APPLY WHITE TAPE OR HEAT SHRINK TUBING : TO BE FLUSH WITH GROMMET FACE WHEN CABLE LENGTH SET TO 52.75". SET CABLE LENGTH & TIGHTEN FLANGE-MOUNTED GRIP NUT FIRMLY.
- 10 INDIVIDUAL #10 CONDUCTORS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.
- 11 APPLY HEAT SHRINK TUBING BAND 3/4" WIDE AT 1" IN FROM FREE END OF 4/0 CABLE COLOR PER NOTE 5.

ITEM	LENGTH	AMTRAK P/N	WEIGHT "LBS"	ANDERSON	PYLE NATIONAL	CLEMENTS NATIONAL	G & G TRANSIT
1	85.0" ± 0.0	24 240 20514	26.5		RPC-14-85	MPA-1SR-0085	55001377
2	110.0" ± 0.0	24 808 00179	29.5		RPC-14-096	MPA-1SR-0110	55001379
3							
4							
5							

**FIGURE 7
480V, 400A, FIXED JUMPER
CABLE ASSEMBLY**

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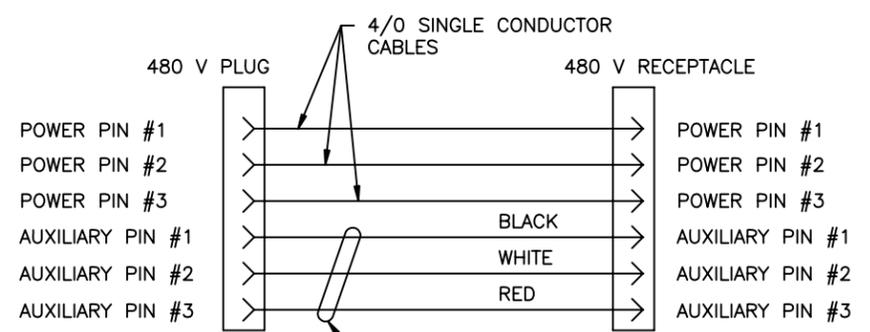
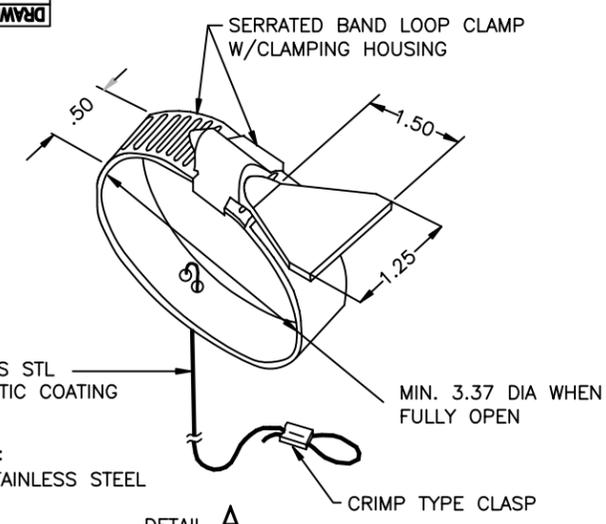
QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM																																												
LIST OF MATERIAL																																																		
		REFERENCE DRAWINGS	<table border="1"> <tr> <td colspan="2" rowspan="2" style="text-align: center;">AMTRAK</td> <td colspan="2">TITLE</td> </tr> <tr> <td colspan="2" style="text-align: center;">480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES</td> </tr> <tr> <td colspan="2">Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 400 North 4th Ave, Washington DC 20001</td> <td colspan="2"> <table border="1"> <tr> <td>Drawn</td> <td>Date</td> <td>Approved</td> <td>Approved</td> </tr> <tr> <td>G. MARZOLI</td> <td>10/29/09</td> <td></td> <td></td> </tr> <tr> <td>Checked</td> <td>Date</td> <td>Approved</td> <td>For Issue</td> </tr> <tr> <td>M. DELIZZO</td> <td>11/09/09</td> <td></td> <td></td> </tr> </table> </td> </tr> <tr> <td colspan="2"> <table border="1"> <tr> <td>SCALE</td> <td>DRAWING NUMBER</td> </tr> <tr> <td>SCALE</td> <td>D-12-7191</td> </tr> </table> </td> <td colspan="2"> <table border="1"> <tr> <td>REV.</td> <td>REV.</td> </tr> <tr> <td>7</td> <td>K</td> </tr> </table> </td> <td colspan="2"> <table border="1"> <tr> <td>DATE</td> <td>FILE</td> </tr> <tr> <td>11/09/09</td> <td>D-12-7191.dwg</td> </tr> </table> </td> </tr> </table>				AMTRAK		TITLE		480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES		Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 400 North 4th Ave, Washington DC 20001		<table border="1"> <tr> <td>Drawn</td> <td>Date</td> <td>Approved</td> <td>Approved</td> </tr> <tr> <td>G. MARZOLI</td> <td>10/29/09</td> <td></td> <td></td> </tr> <tr> <td>Checked</td> <td>Date</td> <td>Approved</td> <td>For Issue</td> </tr> <tr> <td>M. DELIZZO</td> <td>11/09/09</td> <td></td> <td></td> </tr> </table>		Drawn	Date	Approved	Approved	G. MARZOLI	10/29/09			Checked	Date	Approved	For Issue	M. DELIZZO	11/09/09			<table border="1"> <tr> <td>SCALE</td> <td>DRAWING NUMBER</td> </tr> <tr> <td>SCALE</td> <td>D-12-7191</td> </tr> </table>		SCALE	DRAWING NUMBER	SCALE	D-12-7191	<table border="1"> <tr> <td>REV.</td> <td>REV.</td> </tr> <tr> <td>7</td> <td>K</td> </tr> </table>		REV.	REV.	7	K	<table border="1"> <tr> <td>DATE</td> <td>FILE</td> </tr> <tr> <td>11/09/09</td> <td>D-12-7191.dwg</td> </tr> </table>		DATE	FILE	11/09/09	D-12-7191.dwg
AMTRAK		TITLE																																																
		480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES																																																
Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 400 North 4th Ave, Washington DC 20001		<table border="1"> <tr> <td>Drawn</td> <td>Date</td> <td>Approved</td> <td>Approved</td> </tr> <tr> <td>G. MARZOLI</td> <td>10/29/09</td> <td></td> <td></td> </tr> <tr> <td>Checked</td> <td>Date</td> <td>Approved</td> <td>For Issue</td> </tr> <tr> <td>M. DELIZZO</td> <td>11/09/09</td> <td></td> <td></td> </tr> </table>		Drawn	Date	Approved	Approved	G. MARZOLI	10/29/09			Checked	Date	Approved	For Issue	M. DELIZZO	11/09/09																																	
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DRAWING NUMBER

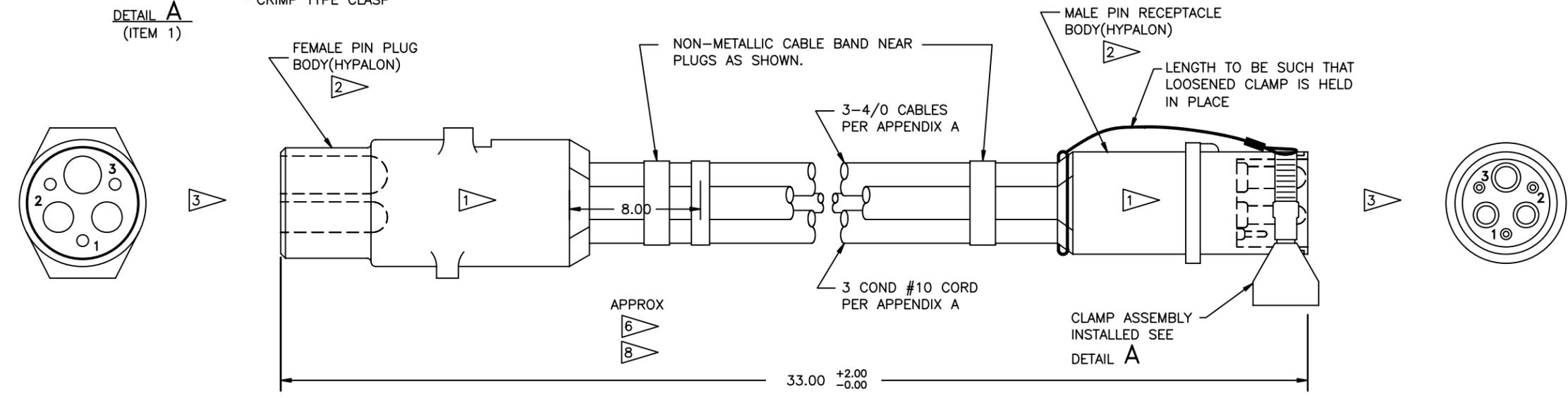
REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	SEE SHEET 1			

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THE AMTRAK DRAWING IS THE GOVERNING DOCUMENT, AND SUPERSEDES ANY LIKE INFORMATION ON REFERENCE DRAWINGS, PART NUMBERS, SPECIFICATIONS, ETC.



JUMPER CABLE ASSEMBLY WIRING SCHEMATIC



NOTES

- 1 VENDOR NAME, AMMS NO., & DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
 - 2 INTEGRALLY MOLDED PLUG BODY TO BE YELLOW IN COLOR, 60-70 DUROMETER; INTEGRALLY MOLDED RECEPTACLE TO BE RED IN COLOR.
 - 3 REFER TO FIGURE 4 (SHEET 4) FOR INTERFACE DIMENSIONS.
 - 4 PHASE ROTATION 1, 2, 3.
 - 5 COLOR CODE OF 4/0 & #10 CONDUCTORS: #1BLACK, #2 WHITE, #3 RED.
 - 6 MINIMUM OF THREE WRAPS 1.50" WIDE PVC TAPE COLORED (OSHA COLORS) AS SHOWN ABOVE
- | YEAR ENDING IN | COLOR |
|----------------|--------|
| 1, 4, 7 | BLUE |
| 2, 5, 8 | YELLOW |
| 3, 6, 9 | RED |
| 0 | GREEN |
- 7 PROVIDE SLACK IN 3/C CORD FOR STRAIN RELIEF (4/0 CABLE TAKES STRAIN).
 - 8 INDIVIDUAL #10 CONDUCTORS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.

ITEM	NAME	AMTRAK P/N	WEIGHT "LBS"	ANDERSON	PYLE NATIONAL	CLEMENTS NATIONAL	G & G TRANSIT
1	CLAMP ASSEMBLY	24 808 02481	1.7 OZ.		RPC-90-CP	MPA-C	55008731
2	ADAPTER ASSEMBLY	24 045 00537	15.5		RPC-13-33-S568	MPRA-2-0033	55000363

FIGURE 8
480V, 400A, ADAPTER JUMPER
CABLE ASSEMBLY

QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
						1

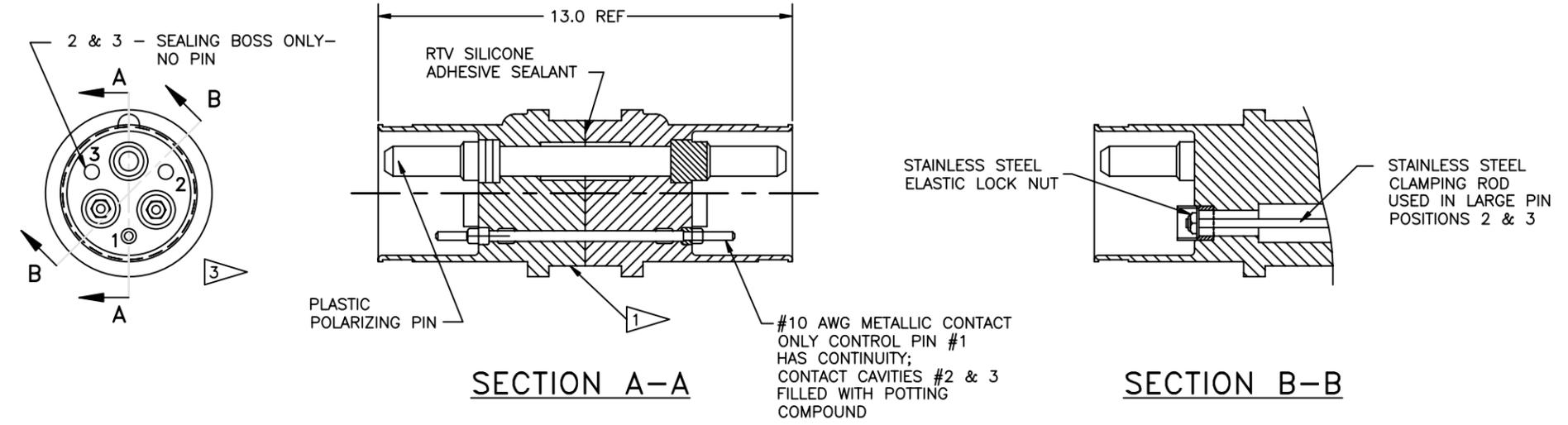
LIST OF MATERIAL

REFERENCE DRAWINGS	TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES
AMTRAK Mechanical Department Bureau of Rolling Stock Engineering 4001 Westmore Ave., Washington DC 20004	Drawn: G. MARZOLI Date: 10-28-06 Approved: Approved D.C. Checked: M. DELIZO Date: 11-08-06 Approved: For Issue Scale: SCALE DRAWING NUMBER Rev: 9 OF 13 D-12-7191 K

SPEC 223 PROGRAM NEXT ASSY USED ON REPORT ALL CHANGES TO ENGINEERING DEPARTMENT DO NOT SCALE DRAWING TOLERANCES: UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS & BREAK SHARP EDGES.

K	D-12-7191
REV	DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	SEE SHEET 1			



AMTRAK P/N	PYLE NATIONAL	CLEMENTS NATIONAL			GE
24 808 00160	RPC-16	MRRA-AMTK			

NOTES

- 1. VENDOR NAME, AMMS NO. AND DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
- 2. MOLDED BODY TO BE RED IN COLOR, 60-70 DUROMETER.
- 3. REFER TO FIGURE 4, (SHEET 4) FOR INTERFACE DIMENSIONS.

ESTIMATED WEIGHT 5.0 LBS.

**FIGURE 9
480V, 400A, CONNECTOR
(480V LOOP - CLOSING)**

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QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
						1

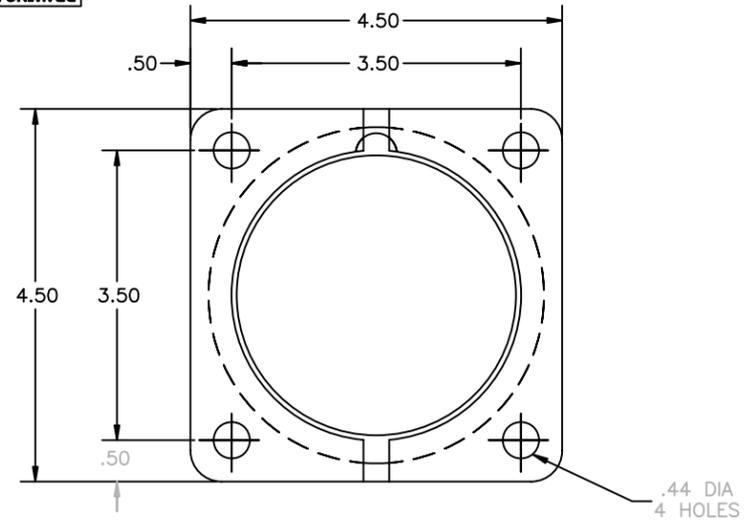
REFERENCE DRAWINGS		TOLERANCES		SCALE	
		Remove all burrs & break sharp edges.	Remove all burrs & break sharp edges.		

AMTRAK Mechanical Department Bureau of Rolling Stock Engineering National Passenger Railroad 4001 Westover Ave., Washington, DC 20007		TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES
Drawn G. MARZOLI Checked M. DELIZZO	Date 10/29/09 Date 11/09/09	Approved Approved For Issue REV.
SPEC 223 PROGRAM NEXT ASSY USED ON		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT DO NOT SCALE DRAWING
		DRAWING NUMBER D-12-7191

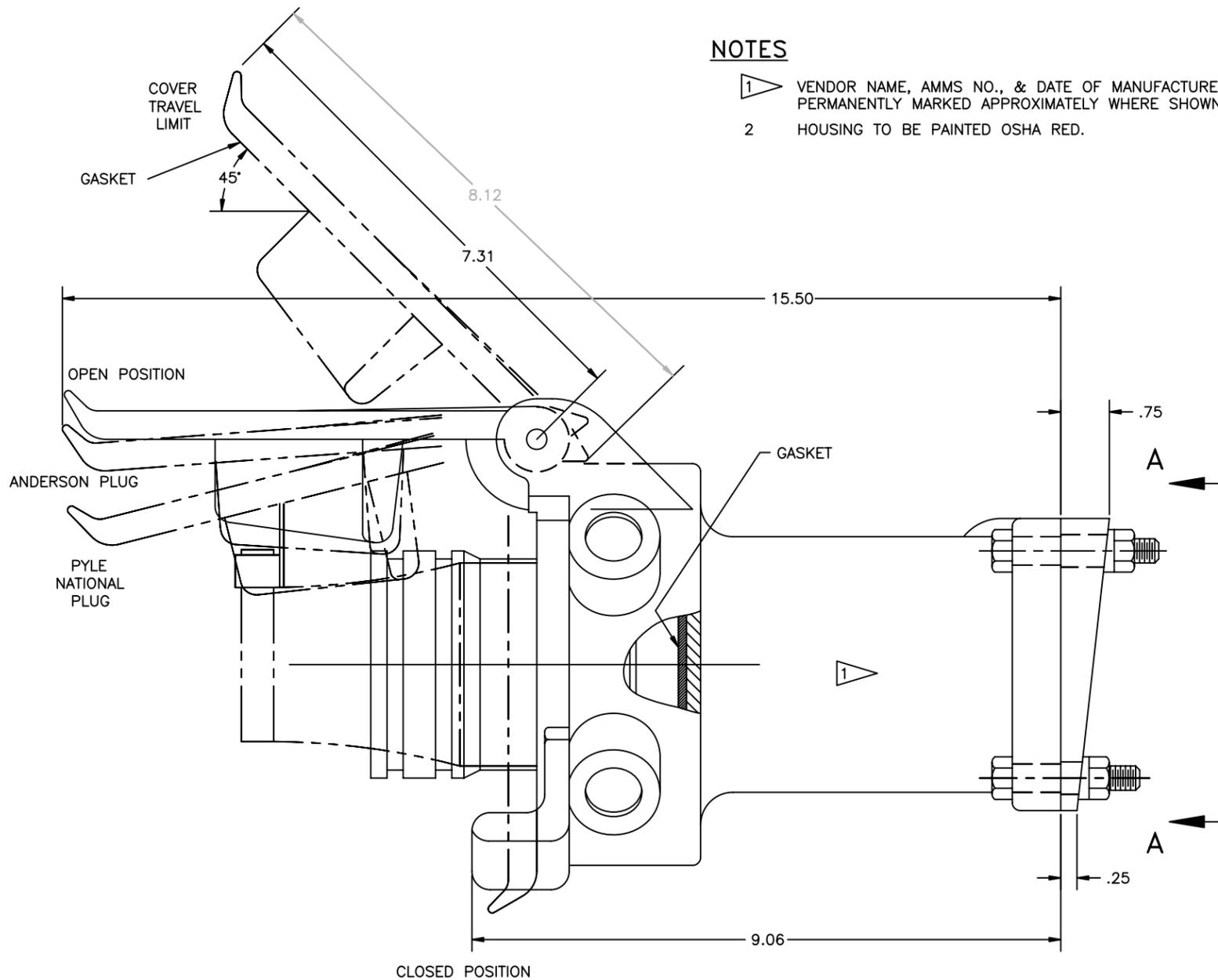
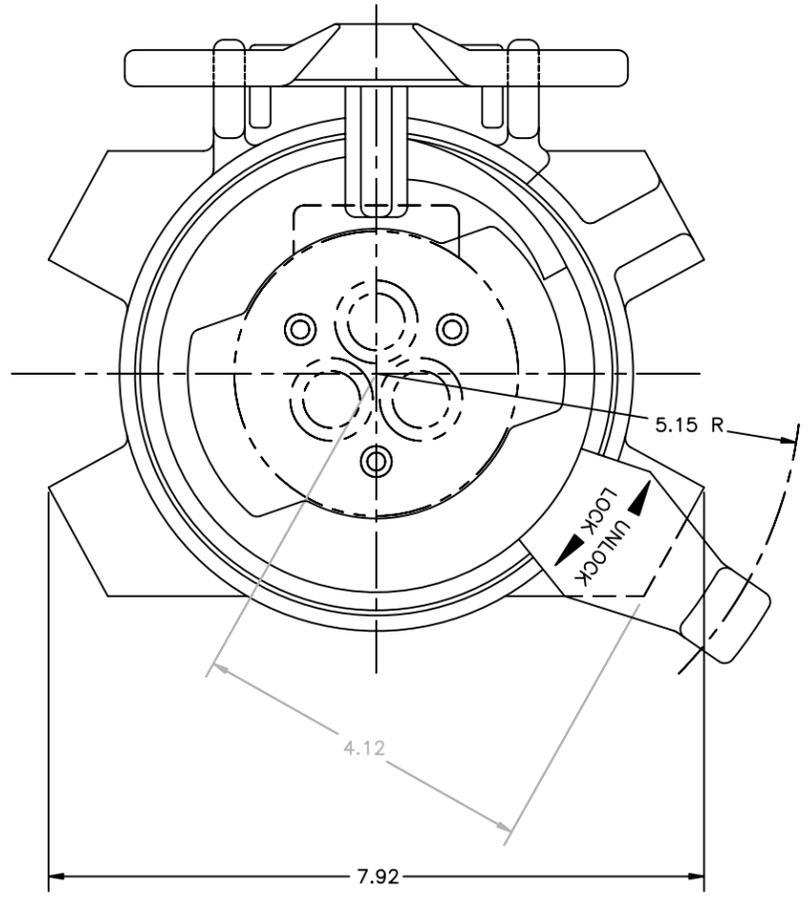
1 D-12-7191.dwg

K
D-12-7191
REV
DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	SEE SHEET 1			



VIEW A-A



NOTES

- 1 VENDOR NAME, AMMS NO., & DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
- 2 HOUSING TO BE PAINTED OSHA RED.

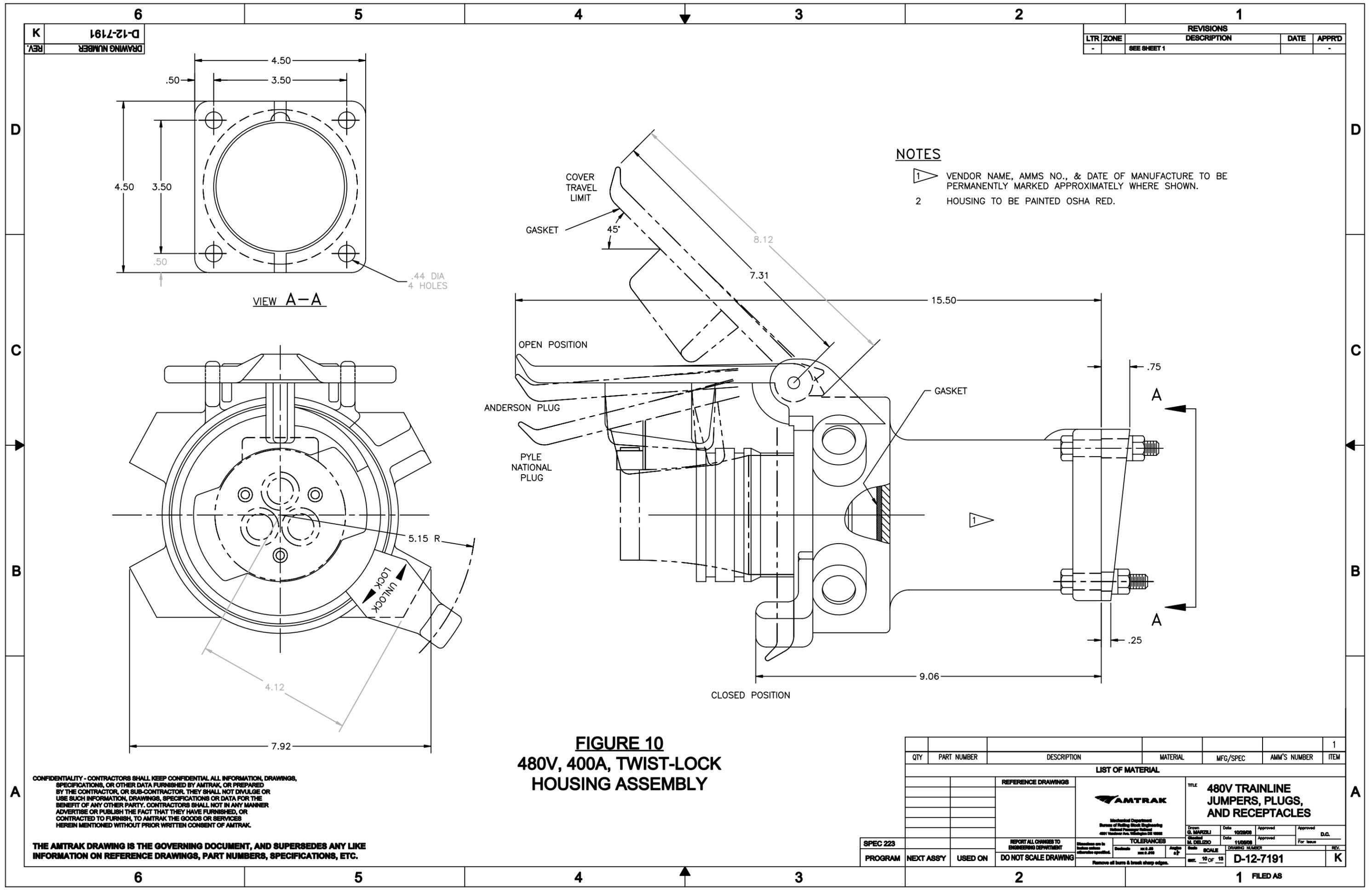
FIGURE 10
480V, 400A, TWIST-LOCK
HOUSING ASSEMBLY

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QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
LIST OF MATERIAL						
		REFERENCE DRAWINGS			TITLE 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES	
		REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	<small>Mechanical Department Bureau of Rolling Stock Engineering Federal Passenger Railroad 4001 Westwood Ave, Washington DC 20004</small>		<small>Drawn</small> G. MARZOLI <small>Date</small> 10/28/09 <small>Approved</small> <small>Approved</small> D.C. <small>Checked</small> M. DELIZZO <small>Date</small> 11/09/09 <small>Approved</small> <small>For Issue</small> <small>Scale</small> SCALE <small>Drawing Number</small> D-12-7191 <small>Rev.</small> K <small>Part</small> 10 OF 13 <small>Filed As</small> 1 FILED AS	
SPEC 223	PROGRAM	NEXT ASSY	USED ON	DO NOT SCALE DRAWING		

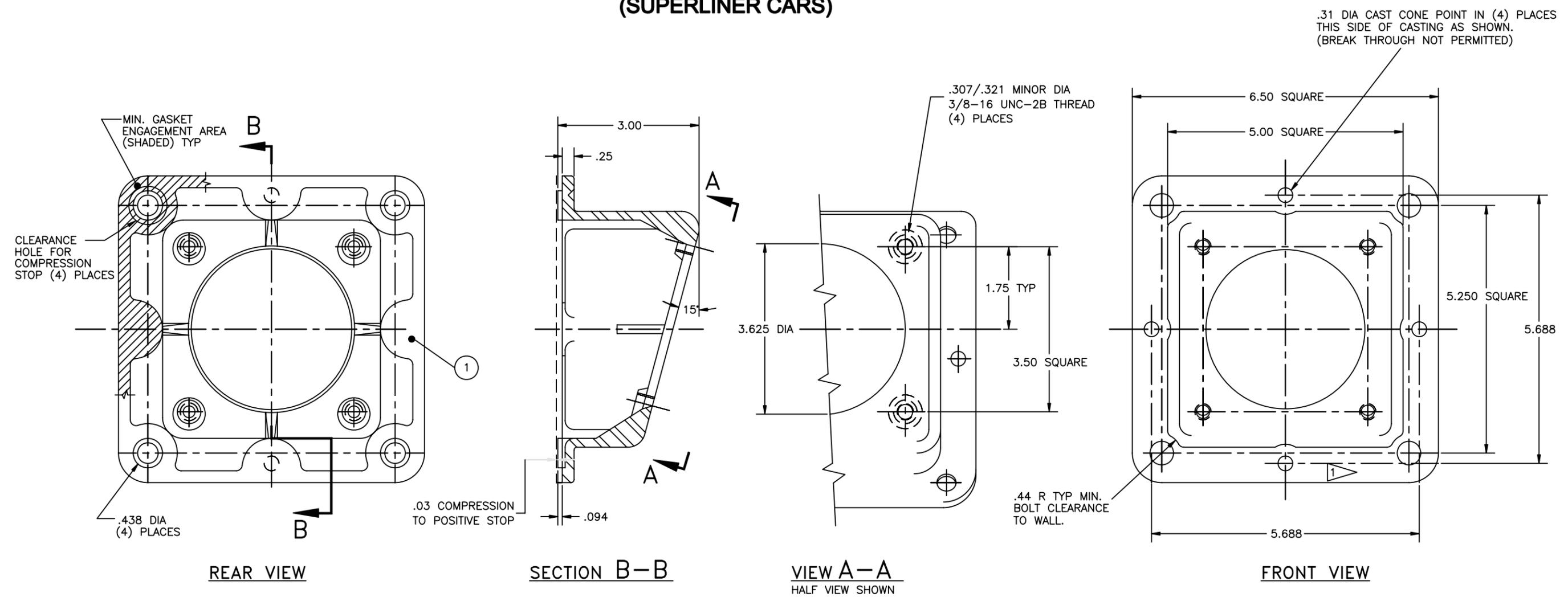
Remove all burrs & break sharp edges.



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D-12-7191
REV
DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	SEE SHEET 1			

FIGURE 11 ADAPTER - FIXED JUMPER MOUNTING (SUPERLINER CARS)



REAR VIEW

SECTION B-B

VIEW A-A
HALF VIEW SHOWN

FRONT VIEW

① ADAPTER

ESTIMATED WEIGHT _____ LBS

APPROVED VENDORS	
NAME	PART NO.
PYLE NATIONAL	RPC-2125
CLEMENTS	MPA-AA
ANDERSON	

NOTES

- 1 VENDOR NAME, AMMS NO., & DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROXIMATELY WHERE SHOWN.
- 2 THIS SHEET WAS D-00-7080 REVISION D.

QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
1		ADAPTER	ALMAG35	QQ-A-601		3
1		GASKET, .125 THK	NEOPRENE	DURO		2
1		ADAPTER			24 808 02625	1

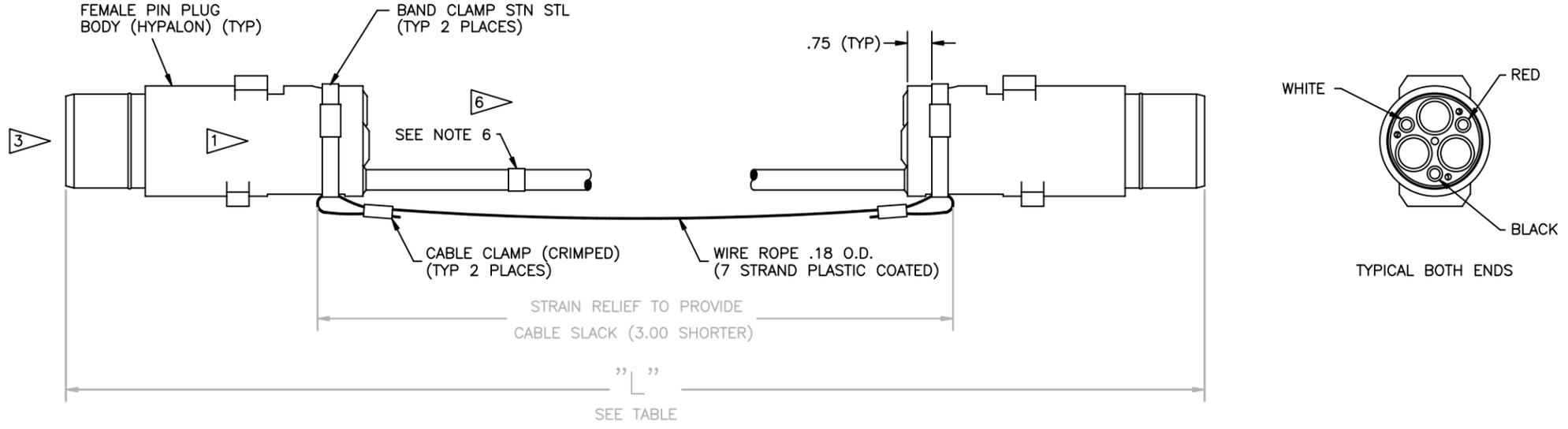
LIST OF MATERIAL					
REFERENCE DRAWINGS	AMTRAK		TITLE		
MOD#M-WST			480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES		
SUPER-0155					
D 00-7090					
SUPRLNR	Mechanical Department Bureau of Rolling Stock Engineering 4001 Westwood Ave., Washington, DC 20004		Drawn: G. MARZOLI Date: 10/29/09 Approved: Approved D.C. Checked: M. DELIZO Date: 11/09/09 Approved: For Issue Scale: SCALE DRAWING NUMBER: D-12-7191 REV.		
SPEC 223	REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	TOLERANCES		Remove all burrs & break sharp edges.	
PROGRAM	NEXT ASSY	USED ON	DO NOT SCALE DRAWING	.11 OF 13 D-12-7191.dwg	

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K
D-12-7191
REV. DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-		SEE SHEET 1		

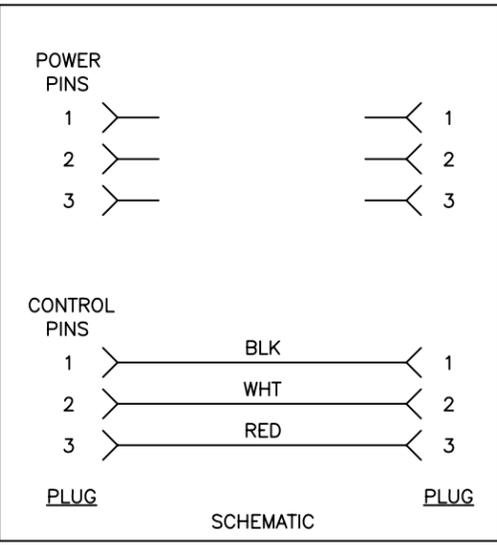


1 JUMPER, 480V FOR LOOPING LOCOMOTIVE

NOTES

- 1 - VENDOR NAME, AMMS NO. & DATE OF MANUFACTURE TO BE PERMANENTLY MARKED APPROX. WHERE SHOWN.
- 2 - MOLDED BODY TO BE YELLOW IN COLOR, 60-70 DUROMETER.
- 3 - REFER TO FIGURE 4, (SHEET 4) FOR INTERFACE DIMENSIONS.
- 5 - COLOR CODE OF #10 CONDUCTORS:
#1 BLACK #2 WHITE #3 RED
- 6 - MINIMUM OF 3 WRAPS 1.50 WIDE PVC TAPE COLORED (OSHA COLORS) AS SHOWN BELOW

YEAR ENDING IN	COLOR
1, 4, 7	BLUE
2, 5, 8	YELLOW
3, 6, 9	RED
0	GREEN



ITEM	LENGTH "L"	AMTRAK P/N	WEIGHT (LBS)	G.E.	PYLE NATIONAL	CLEMENTS	ANDERSON
1	30.00 +1.00 -0.00	26 568 50648		41B517757P1		MPA-2-0030-E60	2-7158G1

FIGURE 12
480V JUMPER, MOTOR ALTERNATOR
(FOR LOOPING LOCOMOTIVE)

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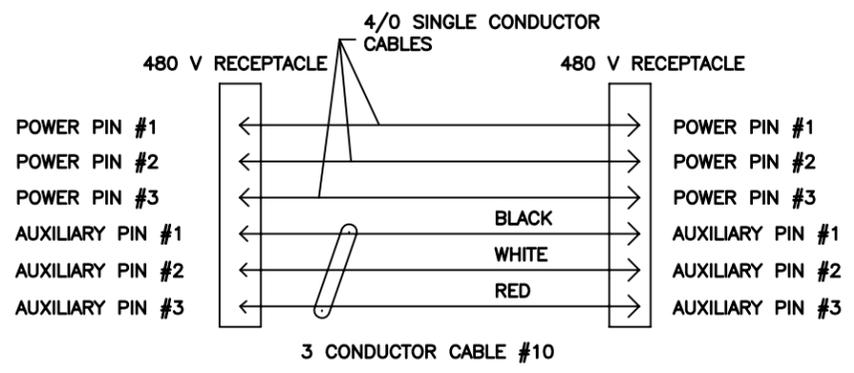
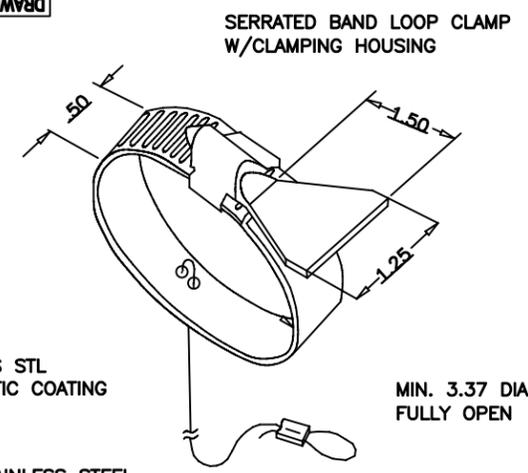
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-1		JUMPER FOR LOOPING LOCOMOTIVE			26 568 50648	1

REFERENCE DRAWINGS		TOLERANCES	
		Remove all burrs & break sharp edges.	

Drawn: G. MARZOLI Checked: M. DELIZIO Date: 10/29/09 Date: 11/09/09		Approved: [Signature] Approved: [Signature] Date: 11/09/09 Date: 11/09/09	
TITLE: 480V TRAINLINE JUMPERS, PLUGS, AND RECEPTACLES		SCALE: 1:1 DRAWING NUMBER: D-12-7191	

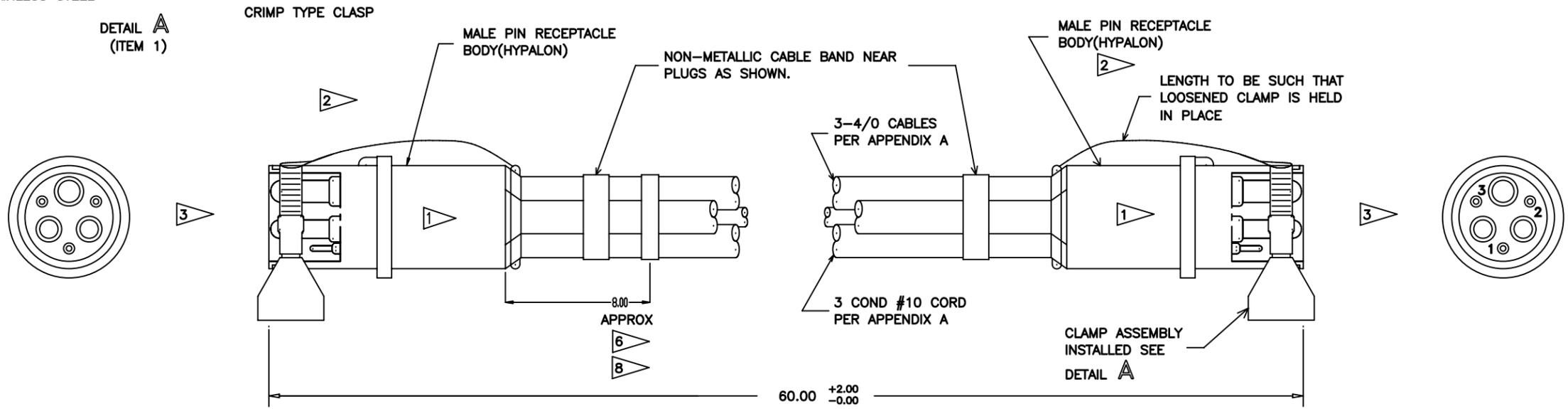
K
D-12-7191
REV. DRAWING NUMBER

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPRD
-	K	SEE SHEET 1		



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NOTES

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- 2 INTEGRALLY MOLDED RECEPTACLE TO BE RED IN COLOR, 60-70 DUROMETER;
- 3 REFER TO SHEET 4 FOR INTERFACE DIMENSIONS.
- 4 PHASE ROTATION 1, 2, 3.
- 5 COLOR CODE OF 4/0 & #10 CONDUCTORS: #1BLACK, #2 WHITE, #3 RED.
- 6 MINIMUM OF THREE WRAPS 1.50" WIDE PVC TAPE COLORED (OSHA COLORS) AS SHOWN ABOVE

YEAR ENDING IN	COLOR
1, 4, 7	BLUE
2, 5, 8	YELLOW
3, 6, 9	RED
0	GREEN
- 7 PROVIDE SLACK IN 3/C CORD FOR STRAIN RELIEF (4/0 CABLE TAKES STRAIN).
- 8 INDIVIDUAL #10 CONDUCTORS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.

ITEM	NAME	AMTRAK P/N	WEIGHT "LBS"	ANDERSON	PYLE NATIONAL	CLEMENTS NATIONAL	G & G TRANSIT
1	CLAMP ASSEMBLY	24 808 02481	1.7 OZ.		RPC-90-CP	MPA-C	55008731
2	JUMPER ASSEMBLY	24 457 00589	XX		RPC-13-33-S568	MRA-2-0060	55000363

FIGURE 13
480V, 400A, JUMPER CABLE ASSEMBLY
PLUGS (MALE PINS) BOTH ENDS

QTY	PART NUMBER	DESCRIPTION	MATERIAL	MFG/SPEC	AMM'S NUMBER	ITEM
						1

LIST OF MATERIAL

REFERENCE DRAWINGS	TOLERANCES	REPORT ALL CHANGES TO ENGINEERING DEPARTMENT	DO NOT SCALE DRAWING
--------------------	------------	--	----------------------

AMTRAK
Mechanical Department
Bureau of Rolling Stock Engineering
National Passenger Railroad
400 North Ave. Washington DC 20001

Drawn: G. MARZOLI Date: 10/29/09 Approved: Approved D. C.
Checked: M. DELIZO Date: 11/09/09 Approved: For Issue
Scale: 1:1 DRAWING NUMBER: D-12-7191 REV. K

Remove all burrs & break sharp edges.