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LOC

DIST

REV

PER

ECO

15-006633

DATE

5-11-15

DWN

CT

APVD

DM

1. THIS CONNECTOR ASSEMBLY IS SUPPLIED WITH METAL CONTACT RETENTION CLIPS INSTALLED IN THE INSERT ASSEMBLY.

2. THIS CONNECTOR ASSEMBLY MEETS THE REQUIREMENTS OF LORAL SPEC 010772 AND MATES WITH ANY RECEPTACLE CONNECTOR WITH SAME INSERT ARRANGEMENT.

3. MARK WITH .047 [1.19]-.062 [1.57] HIGH CHARACTERS. FAR SIDE REFERS TO THE WIDE SIDE OF THE KEYSTONE. NEAR SIDE REFERS TO THE NARROW SIDE OF THE KEYSTONE. IF THE REAR SHELL IS TOO SMALL FOR THE ENTIRE CUSTOMER PART NUMBER, MARKING SHALL BE LOCATED AS FOLLOWS:

A. "B010772" ON FRONT SHELL, FAR SIDE.

B. CUSTOMER BASE NUMBER ON FRONT SHELL, NEAR SIDE.

C. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.

D. AMP PART NUMBER ON REAR SHELL, NEAR SIDE.

4. DIMENSIONS ARE .155 [3.94] MINIMUM FULL PIN DIAMETER EXTENSION (SIZES 3 THRU 6) AND .164 [4.17] MINIMUM FULL PIN DIAMETER EXTENTION (SIZES 1 AND 2).

5. MAXIMUM WIRE INSULATION TO BE USED WITH THIS CONNECTOR ASSEMBLY IS .072 [1.83] DIAMETER.

6. FOR CONTACT CRIMPING INSTRUCTION SHEET REFER TO AMP IS 7516. FOR CONTACT INSTALLATION AND REMOVAL INSTRUCTION SHEET REFER TO AMP IS 7508.

7. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.

8. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100.

|                                           |                                   |                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                         |              |              |
|-------------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------|--------------|
| PRELIMINARY — NOT RELEASED FOR PRODUCTION | .040<br>.020 [ 1.02<br>0.51 ]     | .432<br>.412 [ 10.97<br>10.46 ] | 1.093<br>1.073 [ 27.76<br>27.25 ] | .241<br>.229 [ 6.12<br>5.82 ]     | .432<br>.412 [ 10.97<br>10.46 ]   | .509<br>.479 [ 12.93<br>12.17 ]   | .334<br>.324 [ 8.48<br>8.23 ]     | 1.317<br>1.307 [ 33.45<br>33.20 ] | .999<br>.989 [ 25.37<br>25.12 ]   | 1.556<br>1.526 [ 39.52<br>38.76 ] | MS18274-1                         | 15                                | 2                                 | B010772-0044            | 3-448815-2   | 3-448815-2   |
| PRELIMINARY — NOT RELEASED FOR PRODUCTION | .049<br>.029 [ 1.24<br>0.74 ]     | .544<br>.524 [ 13.82<br>13.31 ] | 2.188<br>2.168 [ 55.58<br>55.07 ] | .236<br>.224 [ 5.99<br>5.69 ]     | .436<br>.416 [ 11.07<br>10.57 ]   | .620<br>.590 [ 15.75<br>14.99 ]   | .441<br>.431 [ 11.20<br>10.95 ]   | 2.411<br>2.401 [ 61.24<br>60.99 ] | 2.084<br>2.074 [ 52.93<br>52.68 ] | 2.650<br>2.620 [ 67.31<br>66.55 ] | MS18277-1                         | 50                                | 5                                 | B010772-0031            | 1-448815-5   | 1-448815-5   |
|                                           |                                   | .432<br>.412 [ 10.97<br>10.46 ] | 1.635<br>2.262 [ 41.53<br>57.45 ] |                                   |                                   |                                   |                                   | .509<br>.479 [ 12.93<br>12.17 ]   | .334<br>.324 [ 8.48<br>8.23 ]     | 2.505<br>2.495 [ 63.63<br>63.37 ] | 2.187<br>2.177 [ 55.55<br>55.30 ] | 2.744<br>2.714 [ 69.70<br>68.94 ] | MS18276-1                         | 37                      | 4            | B010772-0029 |
|                                           | 1.093<br>1.615 [ 27.76<br>41.02 ] |                                 | 1.857<br>1.847 [ 47.17<br>46.91 ] | 1.539<br>1.529 [ 39.09<br>38.84 ] | 2.103<br>2.073 [ 53.42<br>52.65 ] | MS18275-1                         | 25                                |                                   |                                   | 3                                 | B010772-0027                      | 1-448815-3                        | 1-448815-3                        |                         |              |              |
|                                           | 1.073<br>.769 [ 27.25<br>19.53 ]  |                                 | 1.317<br>1.307 [ 33.45<br>33.20 ] | .999<br>.989 [ 25.37<br>25.12 ]   | 1.556<br>1.526 [ 39.52<br>38.76 ] | MS18274-1                         | 15                                |                                   |                                   | 2                                 | B010772-0025                      | 1-448815-2                        | 1-448815-2                        |                         |              |              |
|                                           | .040<br>.020 [ 1.02<br>0.51 ]     | .749 [ 19.02 ]                  | .241<br>.229 [ 6.12<br>5.82 ]     | .432<br>.412 [ 10.97<br>10.46 ]   | .509<br>.479 [ 12.93<br>12.17 ]   | .334<br>.324 [ 8.48<br>8.23 ]     | 1.989<br>.979 [ 25.12<br>24.87 ]  | .671<br>.661 [ 17.04<br>16.79 ]   | 1.228<br>1.198 [ 31.19<br>30.43 ] | MS18273-1                         | 9                                 | 1                                 | B010772-0023                      | 1-448815-1              | 1-448815-1   |              |
|                                           |                                   |                                 |                                   |                                   |                                   |                                   | .544<br>.524 [ 13.82<br>13.31 ]   | 2.188<br>2.168 [ 55.58<br>55.07 ] | .236<br>.224 [ 5.99<br>5.69 ]     | .436<br>.416 [ 11.07<br>10.57 ]   | 2.411<br>2.401 [ 61.24<br>60.99 ] | 2.084<br>2.074 [ 52.93<br>52.68 ] | 2.650<br>2.620 [ 67.31<br>66.55 ] | MS18277-1               | 50           | 5            |
|                                           | .049<br>.029 [ 1.24<br>0.74 ]     | .432<br>.412 [ 10.97<br>10.46 ] | 1.635<br>2.262 [ 41.53<br>57.45 ] | .509<br>.479 [ 12.93<br>12.17 ]   | .334<br>.324 [ 8.48<br>8.23 ]     | 2.505<br>2.495 [ 63.63<br>63.37 ] |                                   | 2.187<br>2.177 [ 55.55<br>55.30 ] |                                   |                                   | 2.744<br>2.714 [ 69.70<br>68.94 ] | MS18276-1                         | 37                                | 4                       | A010772-0007 | 448815-9     |
|                                           |                                   |                                 | 1.093<br>1.615 [ 27.76<br>41.02 ] |                                   |                                   | 1.857<br>1.847 [ 47.17<br>46.91 ] | 1.539<br>1.529 [ 39.09<br>38.84 ] | 2.103<br>2.073 [ 53.42<br>52.65 ] | MS18275-1                         | 25                                | 3                                 | A010772-0005                      | 448815-8                          | 448815-8                |              |              |
|                                           | .040<br>.020 [ 1.02<br>0.51 ]     | .749 [ 19.02 ]                  | .241<br>.229 [ 6.12<br>5.82 ]     | .432<br>.412 [ 10.97<br>10.46 ]   | .509<br>.479 [ 12.93<br>12.17 ]   | .334<br>.324 [ 8.48<br>8.23 ]     | 1.317<br>1.307 [ 33.45<br>33.20 ] | .999<br>.989 [ 25.37<br>25.12 ]   | 1.556<br>1.526 [ 39.52<br>38.76 ] | MS18274-1                         | 15                                | 2                                 | A010772-0003                      | 448815-7                | 448815-7     |              |
|                                           |                                   |                                 |                                   |                                   |                                   |                                   | 1.989<br>.979 [ 25.12<br>24.87 ]  | .671<br>.661 [ 17.04<br>16.79 ]   | 1.228<br>1.198 [ 31.19<br>30.43 ] | MS18273-1                         | 9                                 | 1                                 | A010772-0001                      | 448815-6                | 448815-6     |              |
| L                                         | J                                 | .544<br>.524 [ 13.82<br>13.31 ] | 2.188<br>2.168 [ 55.58<br>55.07 ] | .236<br>.224 [ 5.99<br>5.69 ]     | .436<br>.416 [ 11.07<br>10.57 ]   | .620<br>.590 [ 15.75<br>14.99 ]   | .441<br>.431 [ 11.20<br>10.95 ]   | 2.411<br>2.401 [ 61.24<br>60.99 ] | 2.084<br>2.074 [ 52.93<br>52.68 ] | 2.650<br>2.620 [ 67.31<br>66.55 ] | MS18277-1                         | 50                                | 5                                 | B010772-0009            | 448815-5     | 448815-5     |
|                                           |                                   |                                 | 1.635<br>2.262 [ 41.53<br>57.45 ] |                                   |                                   |                                   |                                   | 1.857<br>2.495 [ 47.17<br>63.37 ] | 1.539<br>2.177 [ 39.09<br>55.30 ] | 2.103<br>2.714 [ 53.42<br>68.94 ] | MS18276-1                         | 37                                | 4                                 | B010772-0007            | 448815-4     | 448815-4     |
|                                           |                                   |                                 | 1.093<br>1.615 [ 27.76<br>41.02 ] |                                   |                                   |                                   |                                   | 1.857<br>1.847 [ 47.17<br>46.91 ] | 1.539<br>1.529 [ 39.09<br>38.84 ] | 2.103<br>2.073 [ 53.42<br>52.65 ] | MS18275-1                         | 25                                | 3                                 | B010772-0005            | 448815-3     | 448815-3     |
|                                           |                                   |                                 | 1.073<br>.769 [ 27.25<br>19.53 ]  |                                   |                                   |                                   |                                   | 1.317<br>1.307 [ 33.45<br>33.20 ] | .999<br>.989 [ 25.37<br>25.12 ]   | 1.556<br>1.526 [ 39.52<br>38.76 ] | MS18274-1                         | 15                                | 2                                 | B010772-0003            | 448815-2     | 448815-2     |
| .040<br>.020 [ 1.02<br>0.51 ]             | .749 [ 19.02 ]                    | .241<br>.229 [ 6.12<br>5.82 ]   | .432<br>.412 [ 10.97<br>10.46 ]   | .509<br>.479 [ 12.93<br>12.17 ]   | .334<br>.324 [ 8.48<br>8.23 ]     | 1.989<br>.979 [ 25.12<br>24.87 ]  | .671<br>.661 [ 17.04<br>16.79 ]   | 1.228<br>1.198 [ 31.19<br>30.43 ] | MS18273-1                         | 9                                 | 1                                 | B010772-0001                      | 448815-1                          | 448815-1                |              |              |
|                                           |                                   |                                 |                                   |                                   |                                   | 1.989<br>.979 [ 25.12<br>24.87 ]  | .671<br>.661 [ 17.04<br>16.79 ]   | 1.228<br>1.198 [ 31.19<br>30.43 ] | MS18273-1                         | 9                                 | 1                                 | B010772-0001                      | 448815-1                          | 448815-1                |              |              |
| L                                         | J                                 | H                               | G                                 | F                                 | E                                 | D                                 | C                                 | B                                 | A                                 | INSERT<br>ARRANGEMENT             | NO OF<br>POS                      | SHELL<br>SIZE                     | CUSTOMER P/N<br>ON CONNECTOR      | AMP P/N<br>ON CONNECTOR | PART NUMBER  |              |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES

MATERIAL  
SEE CALLOUTS

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ± -  
1 PLC ± -  
2 PLC ± -  
3 PLC ± -  
4 PLC ± -  
ANGLES ± ° 1'

FINISH  
SEE CALLOUTS

DWN  
AJ GRAFF  
2-11-93

CHK  
F. KINSEY  
2-17-93

APVD  
F. KINSEY  
2-17-93

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

—

CUSTOMER DRAWING

NAME

AMPLIMITE NONMAGNETIC PLUG ASSY  
WITH SIZE 20 CRIMP TYPE PIN CONTACTS  
SERIES 109, SHELL SIZES 1 THRU 5

SIZE  
A1

CAGE CODE  
00779

DRAWING NO  
448815

RESTRICTED TO

—

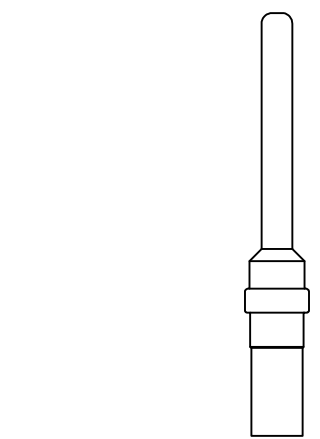
SCALE  
4:1

SHEET  
1

OF  
2

REV  
E

4805 (3/11)



3 MARK AMP, AMP PART NO AND DATE CODE, FAR SIDE.

SHELL, FRONT  
MATL: BRASS ALLOY PER ASTM B 36  
FINISH: GOLD PLATED IN ACCORDANCE WITH MIL-G-45204, TYPE II, GRADE C, CLASS 1 OVER COPPER IN ACCORDANCE WITH MIL-C-14550.

.220 [5.59] MAX

.375 MAX [9.53]

.125 REF [3.18]

-.070 [1.78] TYP  
-.040 [1.02]

SHELL, REAR  
MATL: BRASS ALLOY PER ASTM B 36  
FINISH: GOLD PLATED IN ACCORDANCE WITH MIL-G-45204, TYPE II, GRADE C, CLASS 1 OVER COPPER IN ACCORDANCE WITH MIL-C-14550.

INSERT ASSY  
MATERIAL PER MIL-DTL-24308

GROMMET, REAR  
MATL: SILICONE RUBBER PER IAW ZZ-R-765, CLASS 3a, GRADE 50 COLOR: RED FOR 448815-1 THRU -10 AND -32 ONLY

3 MARK CUSTOMER PART NO, FAR SIDE.

Z

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4805 (3/11)

# Mouser Electronics

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