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REV.  
D

AS21004™

FEDERAL SUPPLY CLASS  
5940

## RATIONALE

REVISION IS REQUIRED TO CHANGE THE TOTAL CONDUCTOR TEMPERATURE FROM 175 TO 150 °C AND TO MAKE MINOR TECHNICAL CHANGES AS NEEDED.

## NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.

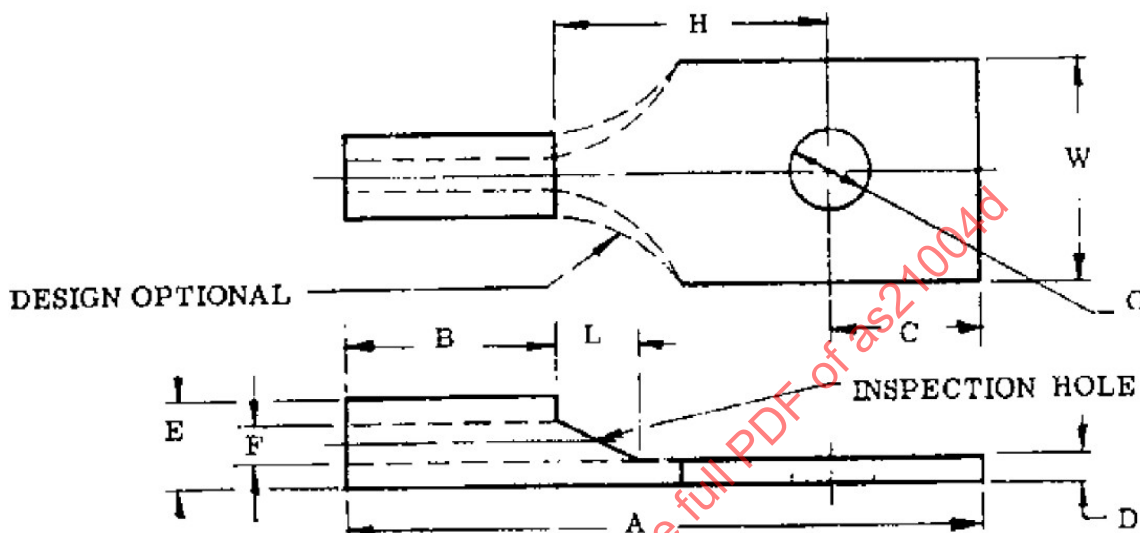
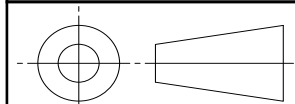


FIGURE 1 - TERMINAL CONFIGURATION

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS21004D/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS7928



## AEROSPACE STANDARD

TERMINAL, LUG, UNINSULATED, RECTANGULAR  
TONGUE, CRIMP STYLE, COPPER, TYPE I, CLASS 1,  
FOR 150 °C TOTAL CONDUCTOR TEMPERATURE

AS21004™  
SHEET 1 OF 3

REV.  
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**TABLE 1 - TERMINAL CONFIGURATION DIMENSIONS**

| DASH NO. | WIRE SIZE | STUD SIZE | A MAX | B MIN | C ±.010 | D    | E    | F    | G    |      | H    | L    | W     | MIL-T-16366 (SHIPS) REFERENCE |
|----------|-----------|-----------|-------|-------|---------|------|------|------|------|------|------|------|-------|-------------------------------|
|          |           |           |       |       |         |      |      |      | MAX  | MIN  | MIN  | MAX  | ±.005 |                               |
| 22 1/    |           | 2 (.086)  | .759  | .240  | .110    |      |      |      | .098 | .090 | .203 | .125 | .182  |                               |
| 1        | 22-18     | 4 (.112)  | .826  |       | .143    |      |      |      | .122 | .114 | .237 | .125 | .237  | L-86, 1-2                     |
| 2        |           | 5 (.125)  | .858  |       | .143    |      |      |      | .137 | .129 | .277 | .125 | .277  | L-83, 1-2                     |
| 3        |           | 8 (.164)  | 1.040 |       | .227    | .037 | .165 | .070 | .178 | .168 | .465 | .250 | .302  | L-82, 1-2                     |
| 4        |           | 6 (.138)  | 1.040 | .250  | .227    | .023 | .110 | .052 | .152 | .142 | .465 | .250 | .302  | L-81, 1-2                     |
| 5        |           | 4 (.112)  | .980  |       | .195    |      |      |      | .122 | .114 | .404 | .156 | .237  | L-85, 1-2                     |
| 6        |           | 6 (.138)  | .980  |       | .195    |      |      |      | .152 | .142 | .404 | .166 | .237  | L-84, 1-2                     |
| 7        |           | 8 (.164)  | 1.290 |       | .310    |      |      |      | .178 | .168 | .621 | .281 | .390  | L-80, 1-2                     |
| 8        | 16-14     | 4 (.112)  | .889  |       | .143    |      |      |      | .122 | .114 | .237 | .125 | .237  | L-86, 2-1/2-4                 |
| 9        |           | 5 (.125)  | .921  |       | .143    |      |      |      | .137 | .129 | .277 | .125 | .277  | L-83, 2-1/2-4                 |
| 10       |           | 8 (.164)  | 1.075 |       | .227    | .037 | .192 | .090 | .178 | .168 | .465 | .250 | .302  | L-82, 2-1/2-4                 |
| 11       |           | 6 (.138)  | 1.075 | .250  | .227    | .023 | .139 | .081 | .152 | .142 | .465 | .250 | .302  | L-81, 2-1/2-4                 |
| 12       |           | 4 (.112)  | 1.043 |       | .195    |      |      |      | .122 | .114 | .404 | .166 | .237  | L-85, 2-1/2-4                 |
| 13       |           | 6 (.138)  | 1.043 |       | .195    |      |      |      | .152 | .142 | .404 | .156 | .237  | L-84, 2-1/2-4                 |
| 14       |           | 8 (.164)  | 1.294 |       | .310    |      |      |      | .178 | .168 | .621 | .281 | .390  | L-80, 2-1/2-4                 |
| 15       | 12-10     | 4 (.112)  | 1.014 |       | .143    |      |      |      | .122 | .114 | .237 | .125 | .237  | L-86, 6-9                     |
| 16       |           | 5 (.125)  | 1.146 |       | .143    |      |      |      | .137 | .129 | .277 | .125 | .277  | L-83, 6-9                     |
| 17       |           | 8 (.164)  | 1.200 |       | .227    | .043 | .255 | .135 | .178 | .168 | .465 | .250 | .302  | L-82, 6-9                     |
| 18       |           | 6 (.138)  | 1.200 | .250  | .227    | .033 | .199 | .128 | .152 | .142 | .465 | .250 | .302  | L-81, 6-9                     |
| 19       |           | 4 (.112)  | 1.168 |       | .195    |      |      |      | .122 | .114 | .404 | .156 | .237  | L-85, 6-9                     |
| 20       |           | 6 (.136)  | 1.168 |       | .195    |      |      |      | .152 | .142 | .404 | .156 | .237  | L-84, 6-9                     |
| 21       |           | 8 (.164)  | 1.419 |       | .310    |      |      |      | .178 | .168 | .621 | .281 | .390  | L-80, 6-9                     |

1/ TERMINAL SIZE 22 IS NOT RECOMMENDED FOR USAGE. THERE IS NO KNOWN SOURCE OF SUPPLY. CONTACT THE AS21004 QUALIFIED SOURCE FOR FURTHER SUPPORT.

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.

1. TERMINAL CONFIGURATION:

TERMINAL CONFIGURATION IS AS SHOWN IN FIGURE 1 AND TABLE 1. DESIGN IS OPTIONAL WITHIN THE DIMENSIONS SHOWN. DIMENSIONS ARE IN INCHES. STUD SIZE DIMENSIONS ARE SHOWN IN PARENTHESES.

2. MATERIAL:

TERMINAL SHALL BE TIN PLATED OVER COPPER BASE METAL.

3. PART IDENTIFICATION NUMBER (PIN):

MS21004      -21  
 |                      |  
 |                      | DASH NUMBER (SEE TABLE 1)  
 |                      | AS7928 DETAIL SPECIFICATION NUMBER

4. CRIMP TOOLS:

TERMINAL SHALL BE CRIMP WITH THE TOOLS SPECIFIED IN TABLE 2. CLASS II TOOLS MAY BE USED IN ACCORDANCE WITH AS7928.

**TABLE 2 - CRIMP TOOLS PART NUMBERS**

| MS21004 WIRE SIZE | M22520/38-01 CRIMP CAVITY |
|-------------------|---------------------------|
| 22 THROUGH 14     | AB                        |
| 12 THROUGH 10     | C                         |

5. QUALIFICATION CABLES:

AS7928 QUALIFICATION SHALL BE PERFORMED WITH MIL-DTL-915 SINGLE CONDUCTOR CABLE.