DETAIL SPECIFICATION SHEET

TURNBUCKLE BODY, CLIP LOCKING

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet, MIL-DTL-8878, and QPL-8878.

Note:
1. The notch shall align within the width of the slot.

FIGURE 1. Turnbuckle body, clip locking.
TABLE I. Dash numbers and dimensions.

<table>
<thead>
<tr>
<th>Dash number</th>
<th>Wire rope diameter</th>
<th>Minimum breaking strength lbs.</th>
<th>Thread UNF-3B</th>
<th>L ±0.031</th>
<th>LB ±0.005</th>
<th>N ±0.031</th>
<th>ND ±0.005</th>
<th>E ±0.005</th>
<th>K</th>
<th>LS</th>
<th>LP ±0.005</th>
<th>LH FIM</th>
<th>Applicable Locking clip MS21256</th>
</tr>
</thead>
<tbody>
<tr>
<td>2S B2S A2S</td>
<td>1/16</td>
<td>0.662</td>
<td>800</td>
<td>0.1380</td>
<td>(56)-40</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-1</td>
</tr>
<tr>
<td>2L B2L A2L</td>
<td>3/32</td>
<td>0.693</td>
<td>1,600</td>
<td>0.1900</td>
<td>(51)-32</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2</td>
</tr>
<tr>
<td>3S B3S A3S</td>
<td>5/32</td>
<td>0.156</td>
<td>3,200</td>
<td>0.2500</td>
<td>(14)-28</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-1</td>
</tr>
<tr>
<td>4S B4S A4S</td>
<td>7/32</td>
<td>0.187</td>
<td>4,600</td>
<td>0.3125</td>
<td>(16)-24</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-1</td>
</tr>
<tr>
<td>5S B5S A5S</td>
<td>9/32</td>
<td>0.218</td>
<td>8,000</td>
<td>0.3750</td>
<td>(18)-24</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2</td>
</tr>
<tr>
<td>6S B6S A6S</td>
<td>11/32</td>
<td>0.250</td>
<td>12,750</td>
<td>0.4375</td>
<td>(17)-20</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2</td>
</tr>
<tr>
<td>6L B6L A6L</td>
<td>13/32</td>
<td>0.281</td>
<td>17,500</td>
<td>0.5000</td>
<td>(17)-20</td>
<td>2.250</td>
<td>4.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-3</td>
</tr>
</tbody>
</table>

NOTES:

1. The part or identifying number (PIN) to be used for turnbuckles acquired to this specification is created as shown below. The first letter of the dash number indicates material, the second number refers to the size, and the third letter indicates length (short or long).

EXAMPLE: MS 21251 - B5L

Dash number (see table I)

Specification sheet number

MS21251-B5L Indicates - Body (barrel), turnbuckle, brass, 0.2500 (1/4)-28 thread, long.

2. Dimensions are in inches.

3. Remove burrs and break sharp edges. (See MIL-DTL-8878.)

REQUIREMENTS:

1. Material and protective treatment: Material and protective treatment shall be in accordance with MIL-DTL-8878.

2. Finish: Surface finish shall be RMS 125 or better.


4. Bodies (barrels): Bodies (barrels) shall be marked with the year of manufacture.

5. Marking: Marking by impression stamping (or any other stress inducing method), if used, shall be done before stress relieving.

6. Tolerances: Unless otherwise specified, tolerances: decimals ± 0.010, angles ± 3°.
4. Interpret drawing in accordance with ASME Y14.5M.

5. For clip locking of turnbuckles, see MS33736 and MIL-DTL-8878.

6. For 0.125 (1/8) inch diameter wire rope use -5 parts, minimum breaking strength 2,200 pounds (lbs.) (reference).

7. A turnbuckle with a manufacturing date of 1978 or older shall not be used for replacement repairs since stress relieving was not required prior to this date.

8. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.

9. Unless otherwise specified, issues of referenced documents are those in effect at the time of solicitation.

AMENDMENT ANNOTATIONS: The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians: Preparing Activity:
Army - AV DLA - GS5
Navy - AS (Project 1640-2009-001)
Air Force - 99

Review Activities:
Navy - MC
Air Force - 71

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