DETAIL SPECIFICATION SHEET
CONNECTORS, ELECTRICAL, MODULAR, CRIMP, CONTACT, TYPE V

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 and MIL-DTL-28754.

FIGURE 1. Crimp contact.
MIL-DTL-28754/15B w/AMENDMENT 1

<table>
<thead>
<tr>
<th>Inches</th>
<th>mm</th>
<th>Inches</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>.00001</td>
<td>0.0200</td>
<td>.047</td>
<td>1.19</td>
</tr>
<tr>
<td>.001</td>
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<td>.050</td>
<td>1.27</td>
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<tr>
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<td>0.05</td>
<td>.060</td>
<td>1.52</td>
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<td>.003</td>
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<td>.070</td>
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<td>.004</td>
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<td>.005</td>
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<td>.074</td>
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<td>.010</td>
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<td>.024</td>
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<tr>
<td>.043</td>
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</table>

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Break sharp edges .005 maximum.
4. Inside corners .005 R maximum.
5. Configuration optional within specified dimensional limits.
6. Unless otherwise specified tolerance is ± .005 on three place decimals, ± .01 on two place decimals and ± 2° on angles.

FIGURE 1. Crimp contact – Continued.

FIGURE 2. Crimp contact with spring.
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Configuration optional within the specified limits.
4. When spring is at .038 inch maximum closed position, end must lie in line within .003.
5. Contacts are used with MIL-DTL-28754/16 connectors.
7. Inside corners .008 R maximum.

FIGURE 2. Crimp contact with spring – Continued.

FIGURE 3. Straight backend.
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 3. Straight backend - Continued.

REQUIREMENTS:

Dimensions and configuration: See figures 1 and 2.

Contacts: Contacts shall be cadmium copper alloy, UNS C16200 in accordance with the Copper Development Association (CDA), and have the following properties:

- 99.1 percent copper and 0.9 percent cadmium.
- Conductivity, 80 percent.
- Tensile strength of 55,000 to 65,000 pounds per square inch.

Spring: Alloy UNS C17200 in accordance with ASTM B194.

Plating: Contact plating shall be per MIL-DTL-28754 except that a minimum of 20 microinches of gold is required within the crimp barrel.

Contact resistance: See table I.

Current rating: See table I.

Temperature rating: -55° to +105°C.

Voltage rating: 300 volts, ac (rms) at sea level.

Durability: See table I.

Marking: In accordance with MIL-DTL-28754.

Part or Identifying Number (PIN): M28754/15- (dash number from table I).

Crimp positioner: SAE-AS22520/2.

Crimp tool: SAE-AS22520/2.

Inches mm
.001 .03
.002 .05
.003 .08
.015 .38
.030 .76
.042 1.07
.062 1.57
TABLE I. Dash number and characteristics.

<table>
<thead>
<tr>
<th>Dash</th>
<th>Contact figure</th>
<th>Backend figure</th>
<th>Conductor size</th>
<th>Current rating</th>
<th>Contact resistance</th>
<th>Durability</th>
<th>Crimp joint resistance</th>
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<td>AMPS</td>
<td>MV</td>
<td>MV</td>
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<td>20.0</td>
<td>4.0</td>
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<td>24</td>
<td>3.0</td>
<td>20.0</td>
<td>20.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

First article testing: Perform the applicable tests as specified in MIL-DTL-28754 and the appendix thereto.

Amendment notations. 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.

Referenced documents. In addition to MIL-DTL-28754, this document references the following:

- MIL-DTL-28754/16
- SAE-AS22520/2
- ASTM B194

CONCLUDING MATERIAL

Custodians:
- Army – CR
- Navy – AS
- Air Force – 85
- DLA - CC

Preparing activity:
- DLA - CC (Project 5935-2020-005)

Review activities:
- Army AR, MI
- Navy – MC

NOTE: The activities above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil.