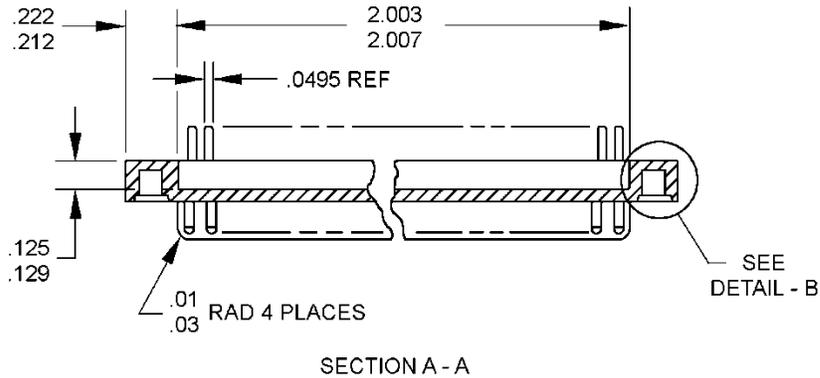


FIGURE 1. Dimensions and configurations – Continued.

MIL-DTL-28754/6D



| Inches | mm  | Inches | mm    | Inches | mm   | Inches | mm    |
|--------|-----|--------|-------|--------|------|--------|-------|
| .002   | .05 | .040   | 1.02  | .125   | 3.13 | .220   | 5.59  |
| .004   | .10 | .045   | 1.14  | .126   | 3.20 | .222   | 5.64  |
| .005   | .13 | .047   | 1.19  | .129   | 3.28 | .270   | 6.86  |
| .006   | .15 | .0495  | 1.257 | .130   | 3.30 | .280   | 7.11  |
| .007   | .18 | .050   | 1.27  | .134   | 3.40 | .310   | 7.87  |
| .008   | .20 | .052   | 1.32  | .139   | 3.53 | .320   | 8.13  |
| .009   | .23 | .060   | 1.52  | .145   | 3.68 | .360   | 9.14  |
| .010   | .25 | .096   | 2.44  | .150   | 3.81 | 1.900  | 48.26 |
| .015   | .38 | .100   | 2.54  | .155   | 3.94 | 2.003  | 50.88 |
| .019   | .48 | .101   | 2.57  | .160   | 4.06 | 2.007  | 50.98 |
| .020   | .51 | .109   | 2.77  | .180   | 4.57 | 2.200  | 55.88 |
| .021   | .53 | .111   | 2.82  | .185   | 4.70 | 2.435  | 61.85 |
| .025   | .64 | .114   | 2.90  | .195   | 4.95 | 2.445  | 62.10 |
| .03    | .8  | .115   | 2.92  | .212   | 5.38 |        |       |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  on 3 place decimals and  $\pm .01$  on two place decimals and  $\pm 2^\circ$  on angles.
4. Contact numbers 1, 20, 21 and 40 shall be marked on pin shield in color contrasting characters, .06 inch high.
5. Flash around blade contacts not to exceed .010 from the body and shall be firmly attached.
6. Mark in this area in color contrasting characters, .06 inch high.
7. The letters CONN are to be marked in color contrasting characters, .06 inch high and are to proceed the military Part or Identifying Number (PIN) but are not to be included in the PIN.
8. The line referred to as -G- designates a plane passing through the axis of the two .114  $\pm .000$  -.005 diameter keying pin holes.

FIGURE 1. Dimensions and configurations – Continued.

MIL-DTL-28754/6D

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Contacts: See figure 1.

Plating: Contact plating shall be in accordance with MIL-C-28754. Solder coated contact tail shall be tinned (see detail C) with solder to a thickness of 0.0005 inch to 0.003 inch and solder shall cover tails. Solder used shall be in accordance with J-STD-006, type Sn60, form B, no-fluxed. A noncorrosive flux may be used in accordance with J-STD-004, flux designator R0M0 or R0M1.

Pin shields:

Dash numbers 01 and 02: Aluminum alloy, 3/4 hard in accordance with SAE-AMS-QQ-A-250. Anodized black in accordance with MIL-A-8625, type II, class 2.

Dash numbers 03 and 04 (insulated): Aluminum alloy, 3/4 hard in accordance with SAE-AMS-QQ-A-250. Anodized black in accordance with MIL-A-8625, type III, class 2.

Alternate material: Unclad E-glass, woven reinforcement material and flame resistant epoxy resin system in accordance with ASTM D1867.

Contact resistance: Voltage drop shall not exceed 20 millivolts.

Solderability: In accordance with MIL-C-28754.

Current rating: 3 amperes.

Temperature rating: -55° to + 105°C.

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

Durability: Voltage drop shall not exceed 20 millivolts.

Marking: In accordance with MIL-C-28754 and figure 1.

PIN: M28754/6- (dash number from table I).

TABLE I. Dash numbers and dimensions.

| Dash no.     | Y                          |
|--------------|----------------------------|
| 01 <u>1/</u> | .058 (1.47)<br>.062 (1.57) |
| 02 <u>1/</u> | .031 (.79)<br>.035 (.89)   |
| 03           | .058 (1.47)<br>.062 (1.57) |
| 04           | .031 (.79)<br>.035 (.89)   |

1/ Inactive for new design. Use -03 and -04.

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

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue 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 and relationship to the previous issue.

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

MIL-A-8625  
J-STD-004  
J-STD-006  
ASTM D1867  
SAE-AMS-QQ-A-250

#### CONCLUDING MATERIAL

Custodians:

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

Preparing activity:  
DLA - CC

(Project 5935-2014-058)

Review activities:

Army – AR, MI  
Navy – MC  
Air Force – 99

NOTE: The activities listed 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/>.