

MIL-DTL-28754/55A

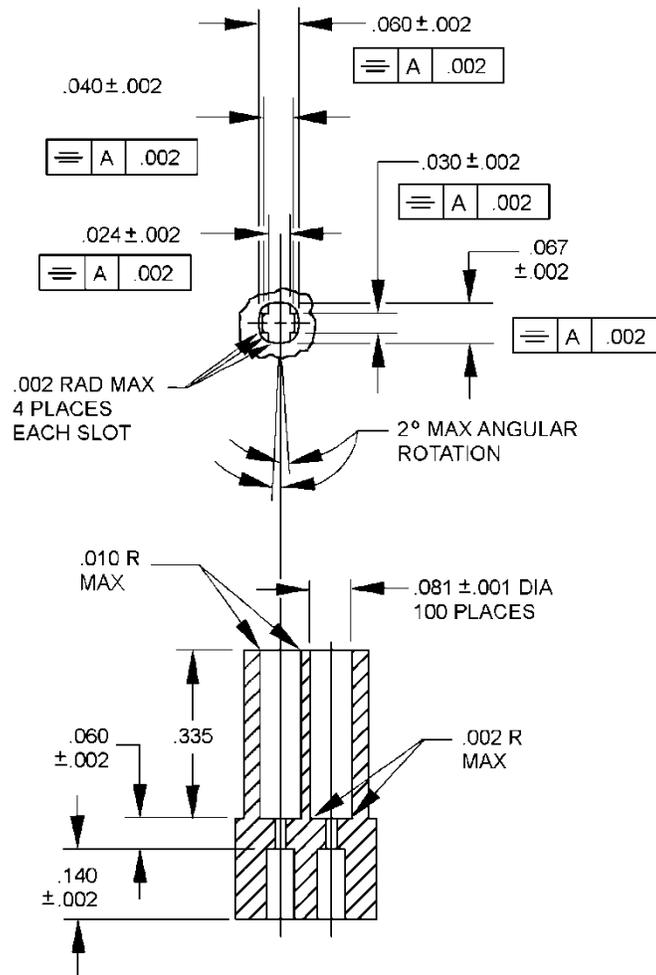
| Inches | mm | Inches | mm |
|--------|------|--------|--------|
| .001 | 0.05 | .150 | 3.81 |
| .005 | 0.13 | .158 | 4.01 |
| .010 | 0.25 | .17 | 4.3 |
| .012 | 0.31 | .220 | 5.59 |
| .015 | 0.38 | .250 | 6.35 |
| .050 | 1.27 | .275 | 6.99 |
| .090 | 2.29 | 1.68 | 42.7 |
| .097 | 2.46 | 4.89 | 124.2 |
| .100 | 2.54 | 4.900 | 124.46 |
| .128 | 3.25 | 4.94 | 125.5 |
| .145 | 3.68 | 5.200 | 132.08 |
| | | 5.62 | 142.7 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm) on three place decimals, $\pm .01$ (0.3 mm) on two place decimals and $\pm 2^\circ$ on angles.
4. Mark 1, 50, 51, 100 and Part or Identifying Number (PIN) using color contrasting ink in the area shown.
5. Datum A and B are established by planes passing through the two keying pin holes.

FIGURE 1. 100 pin cable connector assembly – Continued.

MIL-DTL-28754/55A



| Inches | mm | Inches | mm |
|--------|------|--------|------|
| .001 | 0.03 | .040 | 1.02 |
| .002 | 0.05 | .060 | 1.52 |
| .005 | 0.13 | .067 | 1.70 |
| .010 | 0.25 | .081 | 2.06 |
| .024 | 0.61 | .140 | 3.56 |
| .030 | 0.76 | .335 | 8.51 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm) for three place decimals, $\pm .01$ (0.3 mm) for two place decimals.

FIGURE 2. Insert cross-section.

MIL-DTL-28754/55A

REQUIREMENTS:

Dimensions and configuration: See figures 1 and 2.

Two clamps and pads, 4 screws, and 2 grove pins are supplied with each assembly.

Material: Housing, Polyphenylene sulfide in accordance with ASTM D4067, PPS000G40A43042E11. Insert, GPT-30F or GET-30F in accordance with MIL-M-24519 or TPES013G30 or TPES023G30 in accordance with ASTM D5927.

Temperature rating: -55°C to +100°C.

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

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

Part number: M28754/55- (dash number from table I).

TABLE I. Dash number and characteristics.

| Dash number | Conductor AWG size | Conductor type | Contact supplied | Insert supplied |
|-------------|--------------------|----------------|------------------|-----------------|
| 01 | 26-30 | Round | M28754/15-01 | See figure 2 |
| 02 | 20-24 | Round | M28754/15-02 | See figure 2 |

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-M-24519
- ASTM D4067
- ASTM D5927

MIL-DTL-28754/55A

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 5935-2015-204)

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/>.