

INCH - POUND

MIL-DTL-28754/17E
21 November 2014
SUPERSEDING
MIL-DTL-28754/17D
15 October 2001

DETAIL SPECIFICATION

CONNECTORS, ELECTRICAL, MODULAR, CONNECTOR ASSEMBLY,
TYPE V, STYLE I, CONTACT TAILS ON .100 CENTERS

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-C-28754.

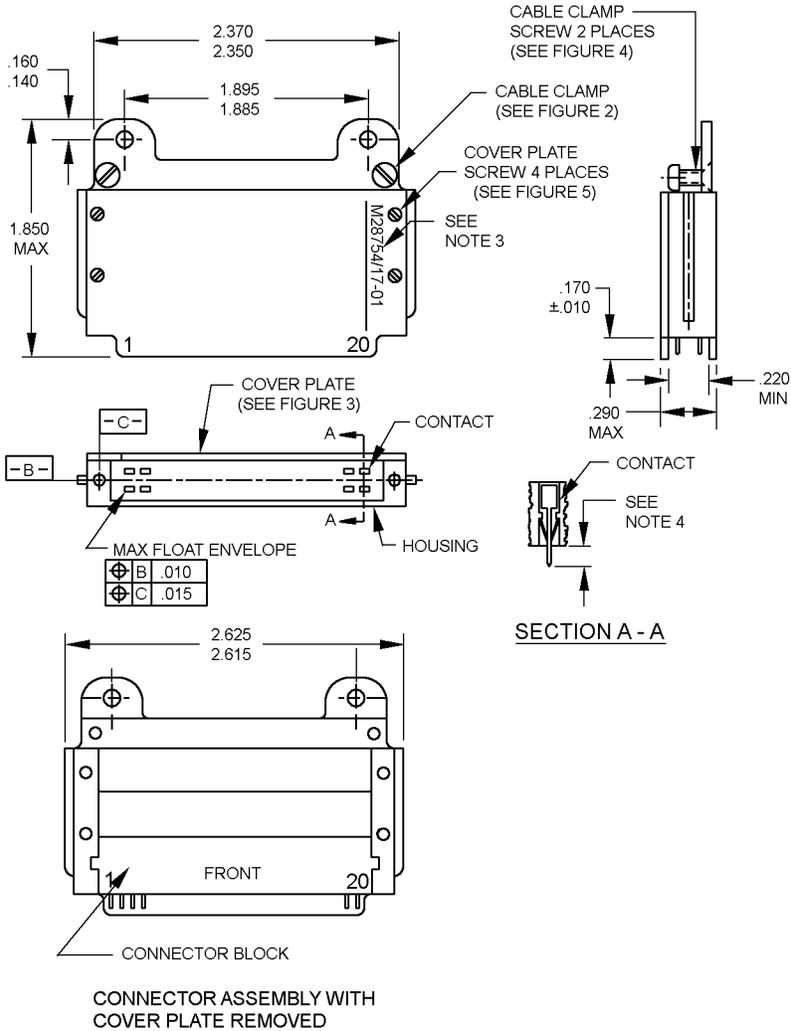


FIGURE 1. Connector assembly type V.

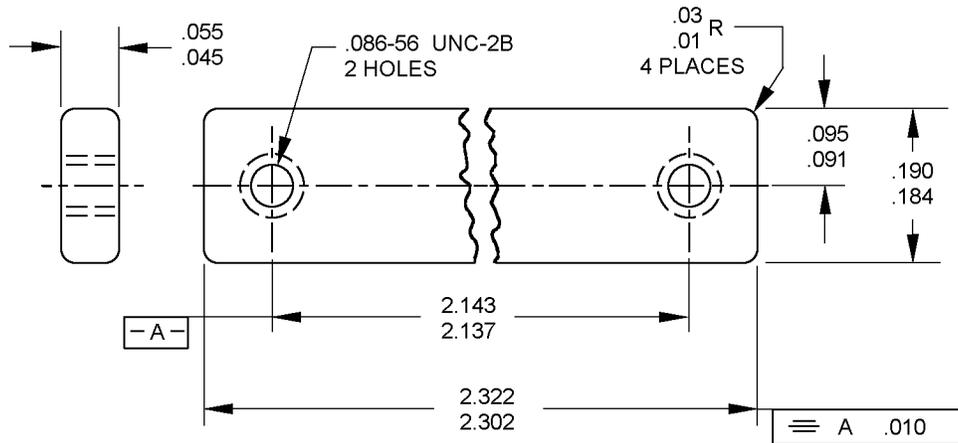
Inches	mm
.010	0.25
.015	0.38
.140	3.56
.145	3.68
.160	4.06
.170	4.32
.220	5.59
.290	7.37
1.850	46.99
1.885	47.88
1.895	48.13
2.350	59.59
2.370	60.20
2.615	66.42
2.625	66.70

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Mark this area in contrasting color characters .30 inch (7.62 mm) high maximum. Marking can be vertical or horizontal.
4. This dimension applies after assembly of contacts.
5. Component parts to be supplied unassembled.
6. Unless otherwise specified tolerance are $\pm .005$ inch (0.13 mm) on three place decimals and $\pm 2^\circ$ on angle.

FIGURE 1. Connector assembly type V – Continued.

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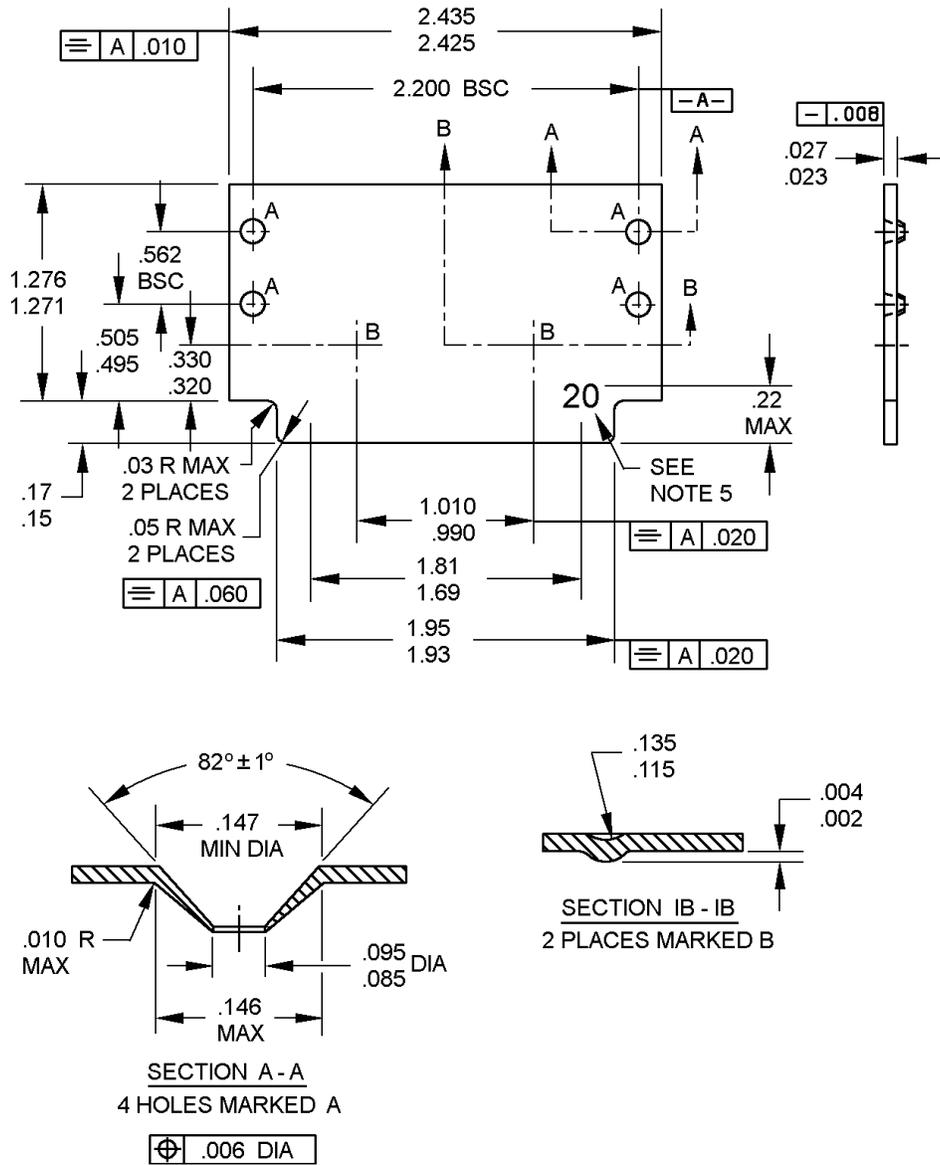
Inches	mm	Inches	mm
.010	0.25	.184	4.67
.03	0.76	.190	4.83
.045	1.14	2.137	54.30
.055	1.40	2.143	54.40
.086	2.18	2.302	58.50
.091	2.31	2.322	59.00
.095	2.41		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Break sharp edges .015 inch (0.38 mm) maximum.
4. Material: Stainless steel in accordance with ASTM A240/A240M, type 304, annealed, finish in accordance with ASTM A480/A480M No. 2B. Magnetic permeability shall not be higher than 1.02 at 200 oersteds (air equal to 1.00).
5. Passivate in accordance with SAE AMS2700.
6. Unless otherwise specified tolerances are $\pm .005$ inch (0.13 mm) for three place decimals and $\pm .01$ inch (0.25 for two place decimals). For angles the specified tolerance is $\pm 2^\circ$.

FIGURE 2. Cable clamp, Part or Identifying Number (PIN) MS14060.

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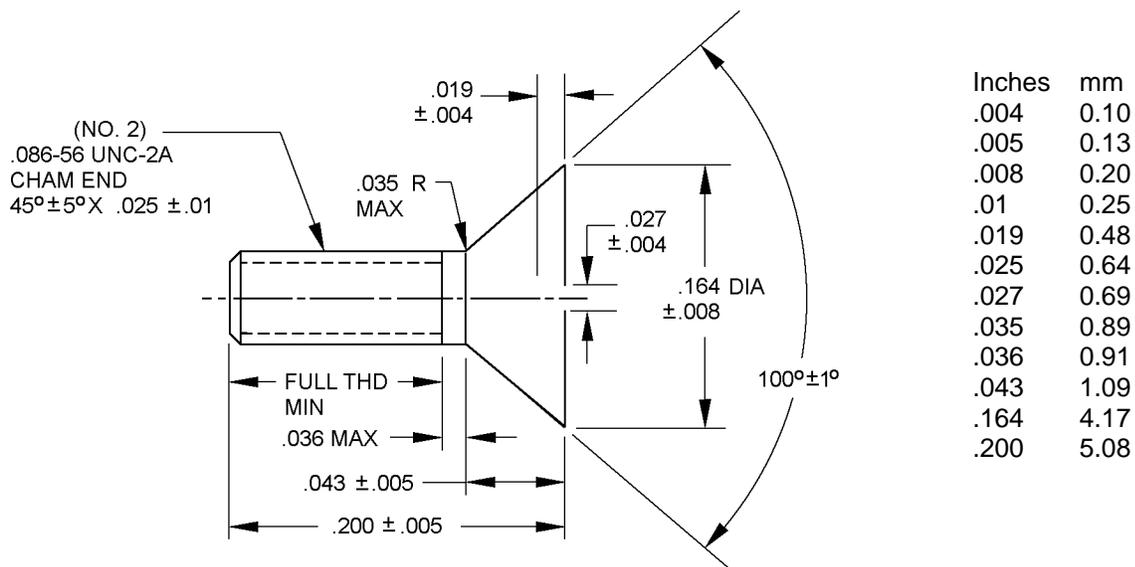
Type	Finish	Marking
A	Anodize in accordance with MIL-A-8625, type 2, dyed black.	Mark characters .06 inch (1.52 mm) high with white epoxy ink, in accordance with MIL-C-28754.
B	Anodize in accordance with MIL-A-8625, type 2, dyed red.	Mark characters .06 inch (1.52 mm) high with black epoxy ink, in accordance with MIL-C-28754.

FIGURE 3. Cover plate, PIN MS14061.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Break sharp edges .005 inch (0.13 mm) maximum.
4. Material: Aluminum alloy in accordance with SAE AMS-QQ-A-250, H32, or AA 5052, H32.
5. Marking and finish per table.
6. Unless otherwise specified tolerances are $\pm .005$ inch (0.13 mm) for three place decimals and $\pm .01$ inch (0.25 for two place decimals). For angles the specified tolerance is $\pm 2^\circ$.

FIGURE 3. Cover plate, PIN MS14061 - Continued.

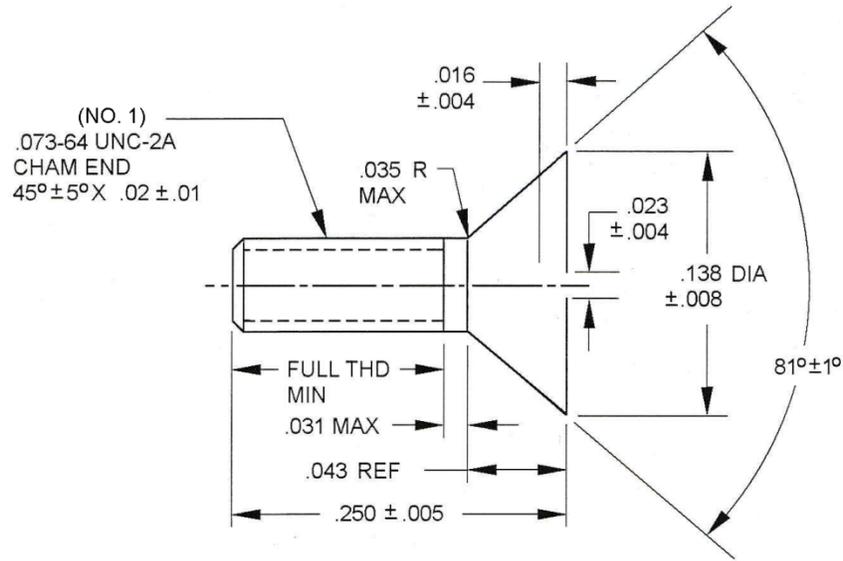


NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Break sharp edges .005 inch (0.13 mm) maximum.
4. Material: Steel in accordance with ASTM A 582/A582M, type 303 or 303Se, condition annealed.
5. Passivate in accordance with SAE AMS2700.
6. Inside corners: .005 inch (0.13 mm) R maximum.
7. Unless otherwise specified tolerances are $\pm .005$ inch (0.13 mm) for three place decimals and $\pm .01$ inch (0.25 for two place decimals). For angles the specified tolerance is $\pm 2^\circ$.

FIGURE 4. Flat head screw – cable clamp (.200), PIN MS14066.

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Inches	mm
.004	0.10
.005	0.13
.008	0.20
.01	0.25
.016	0.41
.02	0.51
.023	0.58
.029	0.74
.031	0.79
.043	1.09
.073	1.85
.138	3.51
.250	6.35

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Break sharp edges .005 inch (0.13 mm) maximum.
4. Material: Steel in accordance with ASTM A 582/A582M, type 303 or 303Se, condition annealed.
5. Passivate in accordance with SAE AMS-2700.
6. Inside corners: .005 inch (0.13 mm) R maximum.
7. Unless otherwise specified tolerances are $\pm .005$ inch (0.13 mm) for three place decimals and $\pm .01$ inch (0.25 for two place decimals). For angles the specified tolerance is $\pm 2^\circ$.

FIGURE 5. Flat head screw – cover plate (.250) PIN, MS14065.

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REQUIREMENTS:

Dimensions and configuration: In accordance with figures 1 through 5.

Applicable connector block: In accordance with MIL-DTL-28754/16.

Applicable contact assembly: In accordance with MIL-DTL-28754/15.

Applicable cable clamp: See figure 2.

Applicable cover plate: See figure 3.

Applicable cable clamp screw: See figure 4.

Applicable cover plate screw: See figure 5.

Contact installing tool: See MIL-I-81969/2.

Contact removal tool: See MIL-I-81969/3.

Marking in accordance with MIL-C-28754, figure 1, and table I.

PIN: M28754/17- (dash number from table I).

TABLE I. Dash numbers and characters.

Dash number	Connector	MIL-C-28754/49 Housing type	Cover plate type (see figure 3)
01	M28754/16-01	A	A
02	M28754/16-01	B	B
03	M28754/16-01	C	A
04	M28754/16-02	A	A

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.

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

MIL-DTL-28754/15
MIL-DTL-28754/16
MIL-C-28754/49
MIL-A-8625
MIL-I-81969/2
MIL-I-81969/3
ASTM A240/A240M
ASTM A480/A480M
ASTM A582/A582M
SAE-AMS2700
SAE-AMS-QQ-A-250

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 5935-2014-069)

Review activities:

Army AR, MI
Navy – MC, YD
Air Force – 19

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>.