

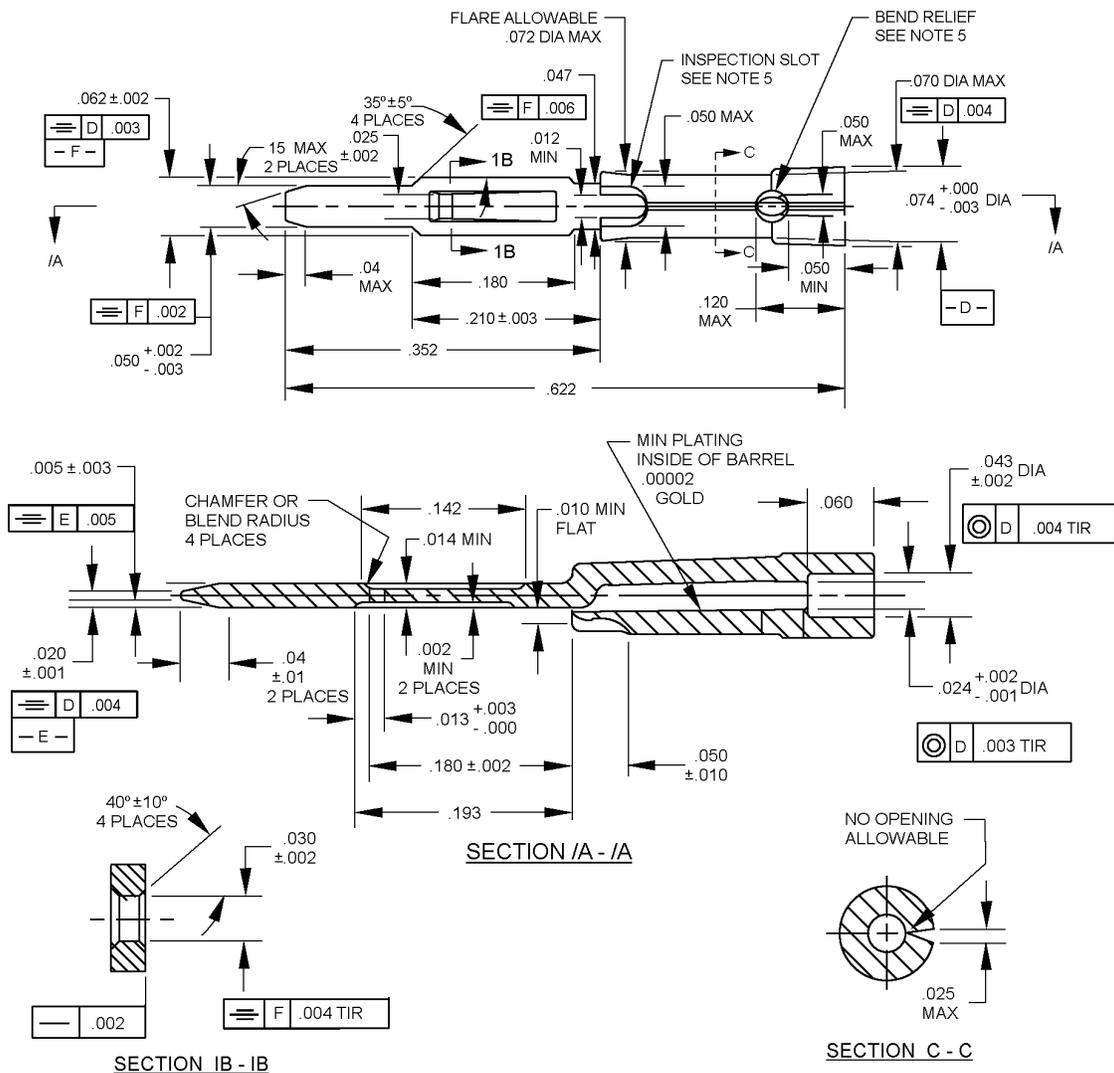
INCH - POUND

MIL-DTL-28754/15B
21 November 2014
SUPERSEDING
MIL-C-28754/15A
4 September 1975

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-C-28754.



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 FIGURE 1. Crimp contact.

Inches	mm	Inches	mm
.00001	0.0200	.047	1.19
.001	0.03	.050	1.27
.002	0.05	.060	1.52
.003	0.08	.070	1.78
.004	0.10	.072	1.83
.005	0.13	.074	1.88
.006	0.15	.142	3.61
.010	0.25	.180	4.57
.012	0.30	.193	4.90
.013	0.33	.210	5.33
.014	0.36	.352	8.94
.020	0.51	.622	15.80
.024	0.61		
.025	0.64		
.030	0.76		
.04	1.01		
.043	1.09		

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 $\pm .005$ on three place decimals, $\pm .01$ on two place decimals and $\pm 2^\circ$ on angles.

FIGURE 1. Crimp contact – Continued.

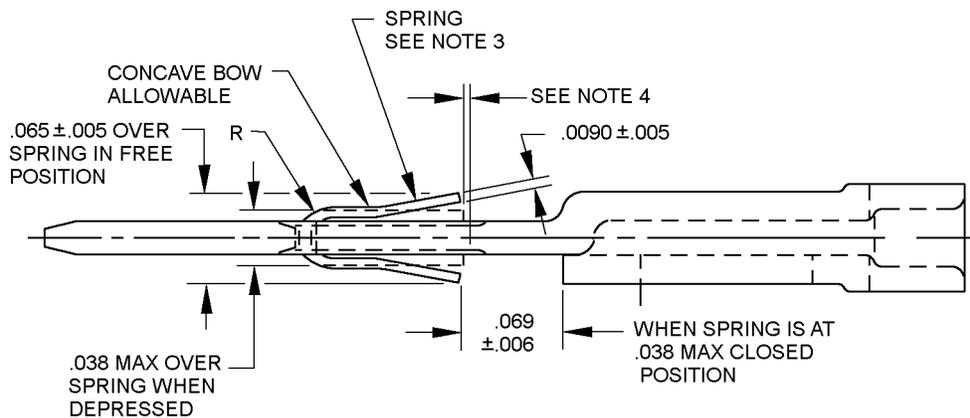


FIGURE 2. Crimp contact with spring.

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Inches	mm
.0005	0.01
.003	0.08
.005	0.13
.006	0.15
.008	0.20
.0090	0.23
.038	0.97
.065	1.65
.069	1.75

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.
6. Break all sharp edges .003 inch maximum.
7. Inside corners .008 R maximum.

FIGURE 2. Crimp contact with spring – Continued.

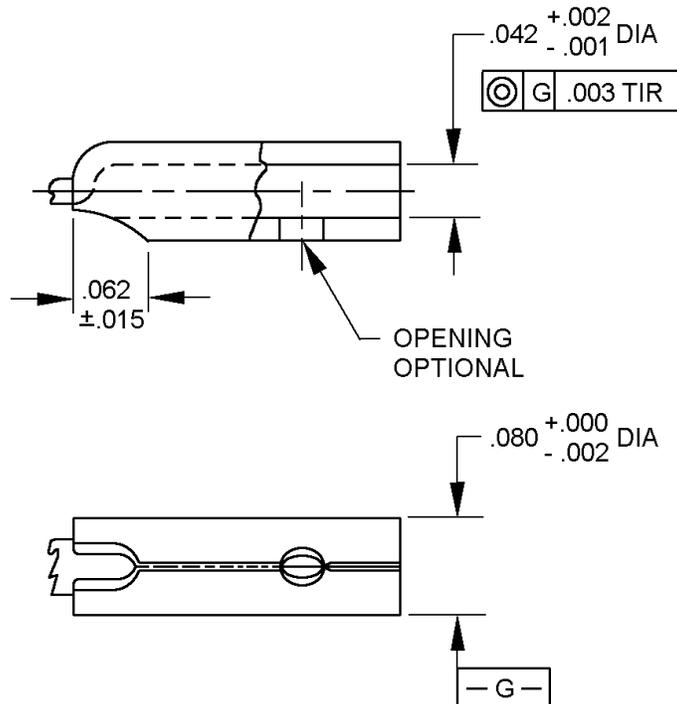


FIGURE 3. Straight backend.

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Inches	mm
.001	.03
.002	.05
.003	.08
.015	.38
.030	.76
.042	1.07
.062	1.57

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 C162000 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 C172000 in accordance with ASTM B194.

Plating: Contact plating shall be per MIL-C-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-C-28754 and figures 1 and 2.

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

Crimp positioner: MIL-C-22520/2.

Crimp tool: MIL-C-22520/2-01.

TABLE I. Dash number and characteristics.

Dash number	Contact figure	Backend figure	Conductor size	Current rating	Contact resistance	Durability	Crimp joint resistance
			AWG	AMPS	MV	MV	MV
01	2	1	26	2.4	16.0	16.0	4.0
			28	2.0	13.3	13.3	4.0
			30	1.1	7.4	7.4	4.0
02	2	3	20	3.0	20.0	20.0	4.0
			22	3.0	20.0	20.0	4.0
			24	3.0	20.0	20.0	4.0

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-DTL-28754/16
MIL-C-22520/2
ASTM B194

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5935-2014-067)

Review activities:
Army AR, MI
Navy – MC
Air Force – 99

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>.