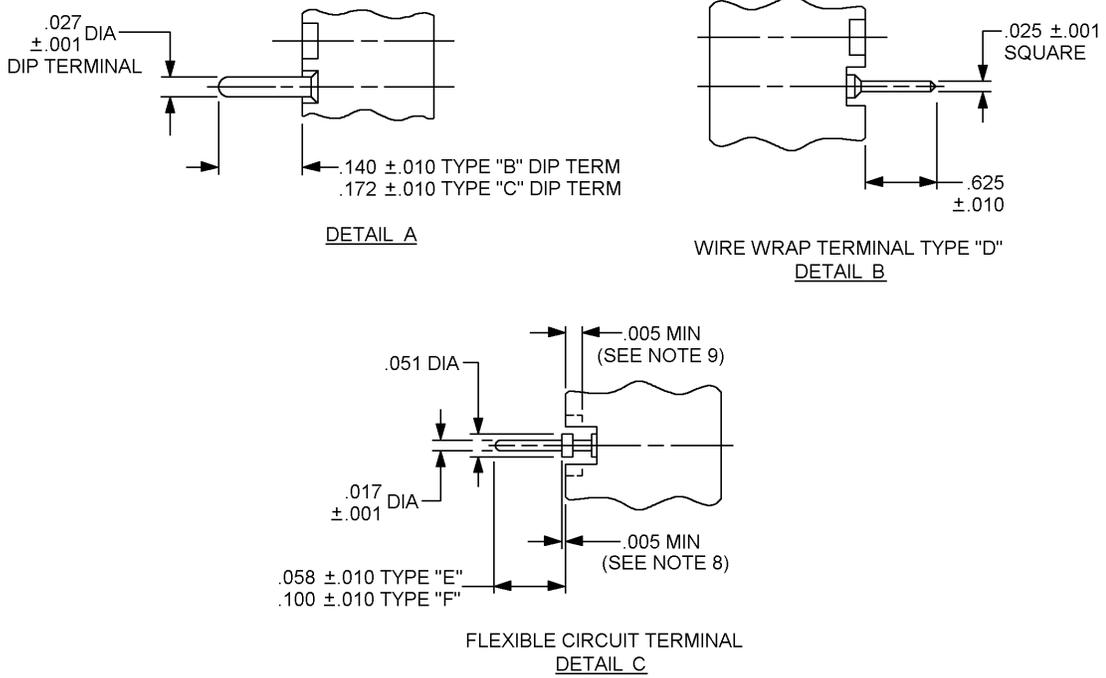


MIL-DTL-55302/56H
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Number of contacts	Dimensions			Number of contacts	Dimensions		
	A ±.010	BSC B	REF C		A ±.010	BSC B	REF C
10	.850 (21.59)	.650 (16.51)	.400 (10.16)	44	2.550 (64.77)	2.350 (56.69)	2.100 (53.35)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)	50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)	54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
40	2.350 (56.69)	2.150 (54.61)	1.900 (48.26)				

FIGURE 1. Connectors, receptacle, .100 (2.54 mm) spacing - Continued.

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Inches	mm	Inches	mm
.001	0.03	.075	1.91
.005	0.13	.086	2.18
.006	0.15	.100	2.54
.008	0.20	.128	3.25
.010	0.25	.130	3.30
.017	0.43	.140	3.56
.025	0.64	.150	3.81
.027	0.69	.172	4.37
.030	0.76	.247	6.27
.035	0.89	.250	6.35
.051	1.30	.325	8.26
.058	1.47	.626	15.88

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ± 0.005 (0.13 mm).
4. These connectors mate with connectors specified in MIL-DTL-55302/55.
5. Numbers indicating the first and last position in each row and every fourth contact position in between shall be marked on the side(s) of the connector. As an option to the above, numbers indicating every fourth cavity may be stamped on the side of the connector, with the exception that the number one contact shall be marked.
6. Termination layout on .025 (0.64 mm) modular grid.
7. Metric equivalents are in parentheses.
8. Conformal coating clearances shall be .005 (0.13 mm) minimum (not required for optional design).
9. Optional design conformal coating clearance.
10. Hole depth to female guide hardware is .282 min (7.16 mm). Full thread depth to female threaded hardware is .240 min (6.1 mm).
11. Accessory mounting hardware (nut) is optional and may be supplied separately (see figure 1).

FIGURE 1. Connectors, receptacle, .100 (2.54 mm) spacing - Continued.

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Requirements:

Dimensions and configuration: See figure 1.

Material: Jackscrews and jack sockets shall be made of corrosion resisting stainless steel in accordance with ASTM A581/A581M or ASTM A582/A582M passivated in accordance with SAE-AMS2700 or shall be corrosion resistant copper nickel alloy (61 ±2% nickel, 2.5% max. other, and the balance zinc and shall have a brinell hardness of 145 to 175.

Plating: The contact plating shall be in accordance with MIL-DTL-55302 or gold in accordance with MIL-DTL-45204, type II, grade C, class 1 or equivalent, over nickel plating in accordance with SAE-AMSQQ-N-290, class 2, 50 to 150 microinches in the engaging area and gold in accordance with MIL-DTL-45204, type II, grade C, class 00 or type III, grade A, class 00 or equivalent, over nickel plating in accordance with SAE-AMS-QQ-N-290, class 2, 50 to 150 microinches in the termination area.

Contact identification: See figure 1.

Contact resistance: The average contact resistance of all contacts measured shall not exceed 0.010 ohm, and no individual contact pair shall have a resistance exceeding 0.020 ohm.

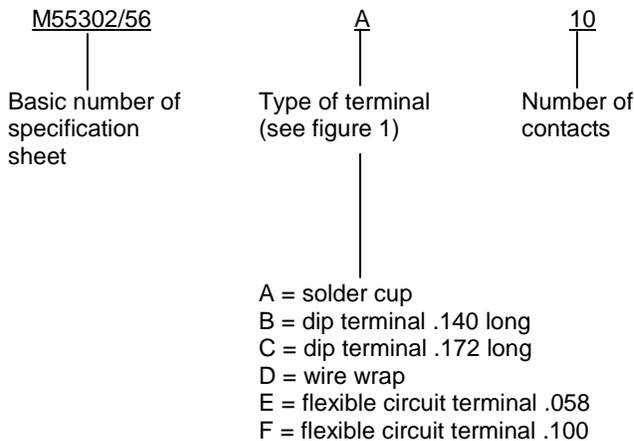
Dielectric withstanding voltage:

Sea level: 1,000 volts rms.

High altitude: 300 volts rms.

Current rating: 5.0 amperes maximum in accordance with contact.

Example of Part or Identifying Number (PIN):



Supersession data: See table I.

TABLE I. Supersession data.

New PIN	Superseded PIN
M55302/56***	M55302/56-***

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Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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-55302, this document references the following:

MIL-DTL-55302/55
MIL-DTL-45204
ASTM A581/A581M
ASTM A582/A582M
SAE-AMS2700
SAE-AMS-QQ-N-290

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 85
NASA - NA
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2013-173)

Review activities:
Army - AR, AT, AV, CR4, MI
Navy - AS, MC, OS
Air Force - 19, 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/>.