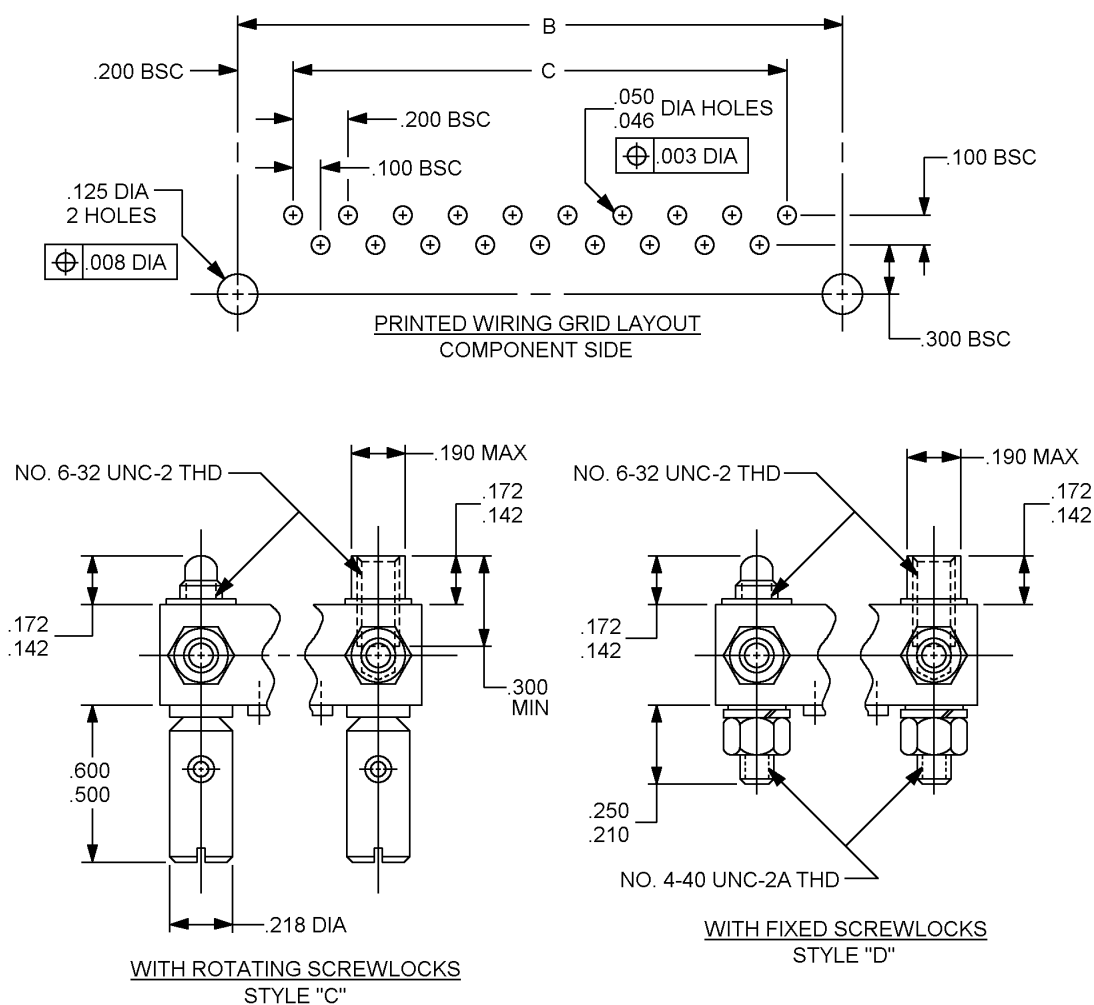


MIL-DTL-55302/16C



Dimensions and dash numbers.

Guide pins dash number	Rotating screwlocks dash number	Fixed screwlocks dash number	Number contacts	Dimensions		
				A ±.010	B BSC	C Ref
01	07	13	7	1.300	1.000	.600
02	08	14	9	1.500	1.200	.800
03	09	15	11	1.700	1.400	1.000
04	10	16	15	2.100	1.800	1.400
05	11	17	19	2.500	2.200	1.800
06	12	18	23	2.900	2.600	2.200
19	20	21	37	4.300	4.000	3.600

FIGURE 1. Connectors, plug (.200 spacing) - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.046	1.17	.172	4.37	.300	7.62	1.700	43.18
.006	0.15	.050	1.27	.180	4.57	.360	9.14	1.800	45.72
.008	0.20	.090	2.29	.190	4.83	.500	12.70	2.100	53.34
.010	0.25	.096	2.44	.200	5.08	.600	15.24	2.200	55.88
.012	0.30	.100	2.54	.210	5.33	.800	20.32	2.500	63.50
.015	0.38	.125	3.18	.218	5.54	1.000	25.40	2.600	66.04
.016	0.41	.130	3.30	.230	5.84	1.200	30.48	2.900	73.66
.031	0.79	.142	3.61	.240	6.104	1.300	33.02	3.600	91.44
.039	0.99	.150	3.81	.250	6.35	1.400	35.56	4.000	101.60
.041	1.04	.170	4.32	.280	7.11	1.500	38.10	4.300	109.22

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.005 (0.13 mm).
4. These connectors mate with connectors specified in MIL-DTL-55302/17 and are primarily for use with single-sided and double-sided printed wiring board.
5. Mounting screws for .062 (1.57 mm) and .094 (2.39 mm) thick printed wiring boards shall be .250 (6.35 mm) long.
6. Contact identification letters may be molded as shown on horizontal.

FIGURE 1. Connectors, plug (.100 spacing) - Continued.

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REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Material:

Style A mounting and guidance hardware shall be brass rod, alloy 260, half hard as specified in ASTM B36, nickel plated .0002 inch in accordance with SAE-AMS-QQ-N-290. Styles C and D mounting guidance hardware shall be corrosion resistant steel in accordance with ASTM A276, class 303, passivated in accordance with SAE-AMS-QQ-P-35.

Contact identification:

Shall be alphabetical and sequential in the pattern indicated, using upper case characters followed by lower case characters.

Mating and unmating:

The maximum insertion force, in pounds, shall not exceed a value equal to 1.0 times the number of contacts, and the withdrawal force, in pounds, shall be a minimum of 0.25 times the number of contacts, and shall not exceed the measured insertion force.

Contact resistance:

The average resistance of all contact pairs measured shall not exceed 0.015 ohm, and no individual contact pair shall have a resistance exceeding 0.020 ohm.

Dielectric withstanding voltage:

Sea level: 1,000 volts rms, 60 cycles, ac.

High altitude: 500 volts rms, 60 cycles, ac.

Pin size: 20.

Wire size: 20.

Current rating: 7.5 amperes.

Part of Identifying Number (PIN): M55302/16-(dash number from figure I).

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Reference documents. In addition to MIL-DTL-55302, this document references the following:

MIL-DTL-55302/17	SAE-AMS-QQ-P-35
ASTM A276	SAE-AMS-QQ-N-290
ASTM B36	

MIL-DTL-55302/16C

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-4411-012)

Review activities:

Army - AR, AT, AV, MI
Navy - AS, MC
Air Force - 19

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 <http://www.dodssp.daps.mil>.