

INCH-POUND

MIL-DTL-55302/17B  
24 March 2004  
SUPERSEDING  
MIL-C-55302/17A  
11 August 1970

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:  
SOCKET, STRAIGHT-THRU, FOR PRINTED WIRING BOARDS (.200 SPACING)

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-DTL-55302.

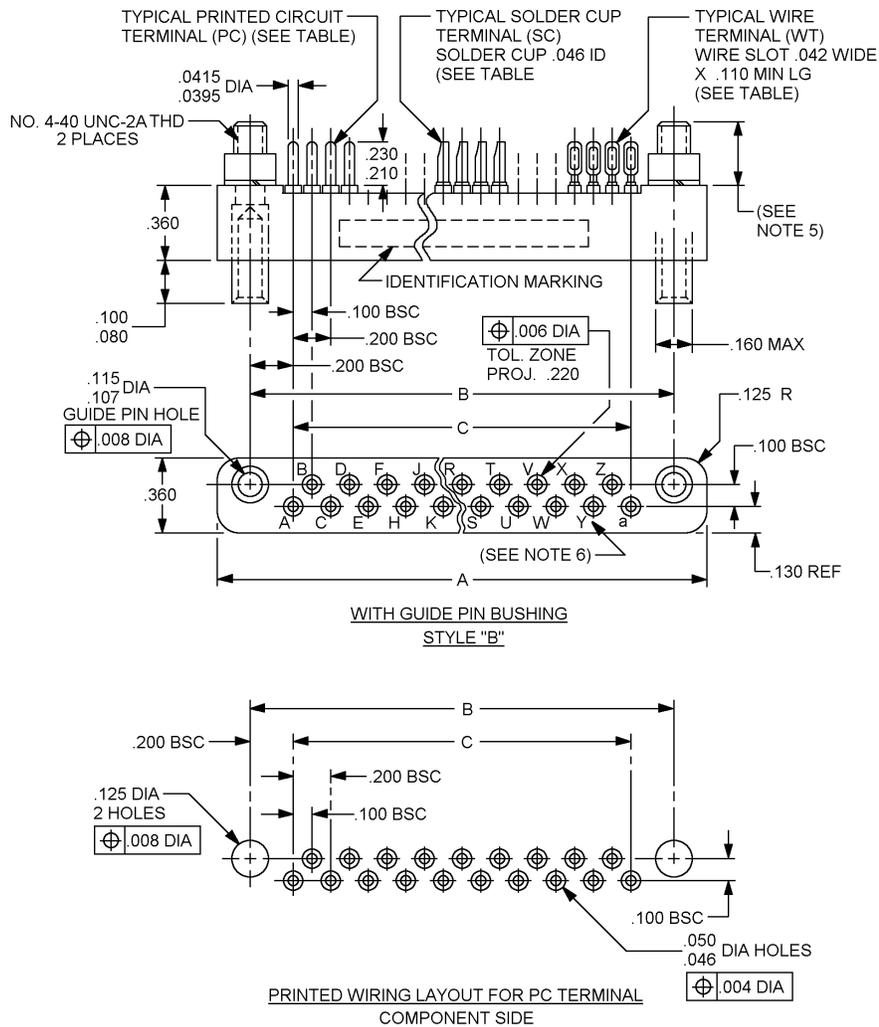
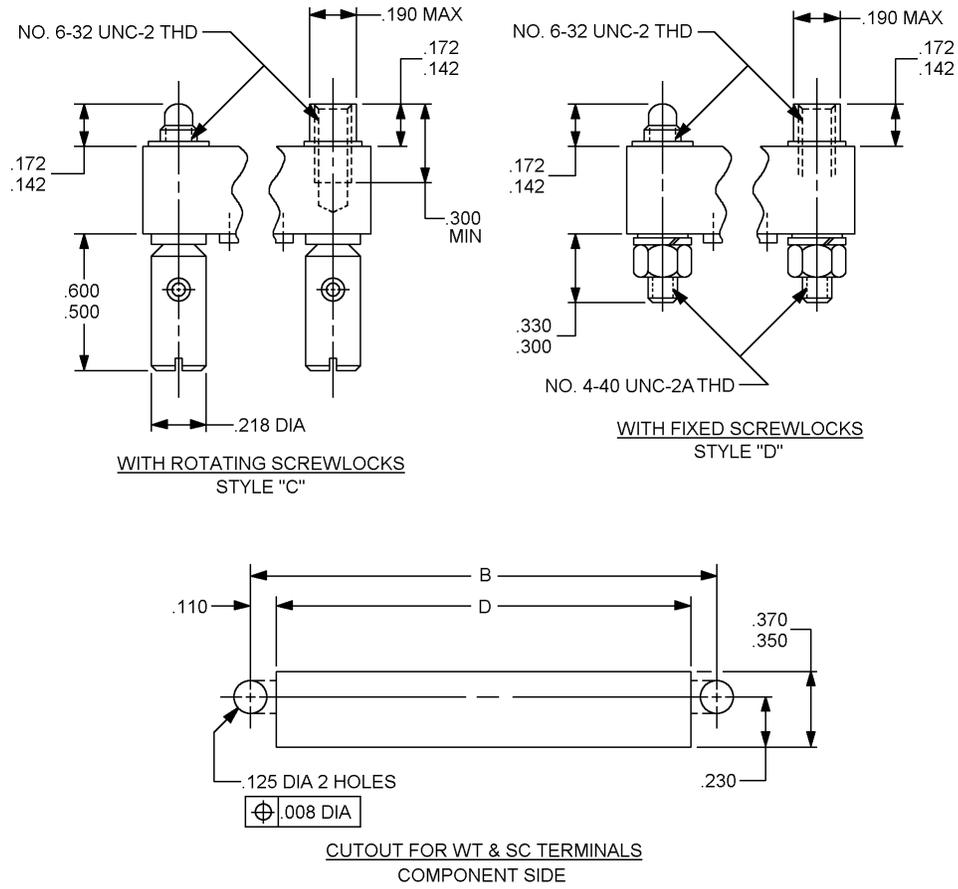


FIGURE 1. Connectors, receptacle (.200 spacing).

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Dimensions and Part or Identifying Number (PIN).

Guide pin bushing			Rotating screwlocks			Fixed screwlocks			No. contacts	Dimensions			
PC	SC	WT	PC	SC	WT	PC	SC	WT		A ±.010	B BSC	C Ref	D ±.010
PIN M55302/17-( )													
Dash number	Dash number	Dash number	Dash number	Dash number	Dash number	Dash number	Dash number	Dash number					
01	07	13	19	25	31	37	43	49	7	1.300	1.000	.600	.780
02	08	14	20	26	32	38	44	50	9	1.500	1.200	.800	.980
03	09	15	21	27	33	39	45	51	11	1.700	1.400	1.000	1.180
04	10	16	22	28	34	40	46	52	15	2.100	1.800	1.400	1.580
05	11	17	23	29	35	41	47	53	19	2.500	2.200	1.800	1.980
06	12	18	24	30	36	42	48	54	23	2.900	2.600	2.200	2.380
55	56	57	58	59	60	61	62	63	37	4.300	4.000	3.600	3.780

Solder termination's:  
 PC - Printed circuit  
 SC - Solder cup  
 WT - Wire terminal

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

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.004	0.10	.142	3.61	.370	9.40	1.980	50.29
.006	0.15	.150	3.81	.500	12.70	2.100	53.34
.008	0.20	.160	4.06	.600	15.24	2.200	55.88
.010	0.25	.165	4.19	.780	19.81	2.380	60.45
.0395	1.00	.172	4.37	.800	20.32	2.500	63.50
.0415	1.05	.190	4.83	.980	24.89	2.600	66.04
.046	1.17	.200	5.08	1.000	25.40	2.900	73.66
.050	1.27	.210	5.33	1.180	29.97	3.600	91.44
.080	2.03	.218	5.54	1.200	30.48	3.780	96.01
.100	2.54	.220	5.59	1.300	33.02	4.000	101.60
.107	2.72	.230	5.84	1.400	35.56	4.300	109.22
.110	2.79	.300	7.62	1.500	38.10		
.115	2.92	.330	8.38	1.700	43.18		
.125	3.18	.350	8.89	1.800	45.72		
.130	3.30	.360	9.14				

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.005$  (0.13 mm).
4. These connectors mate with connectors specified in MIL-DTL-55302/16 and MIL-DTL-55302/18 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, receptacle (.200 spacing) - Continued.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and note 5.

Material:

Style B mounting and guidance hardware shall be brass rod, C36000, half hard as specified in ASTM B16, nickel plated .0002 inch (0.01 mm) thick 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.

PIN: See figure 1.

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-55302/16	ASTM A276
MIL-DTL-55302/18	SAE-AMS-QQ-P-35
ASTM B16	SAE-AMS-QQ-N-290

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CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC  
(Project 5935-4411-013)

Review activities:

Army - AR, AT, CR4, 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>.