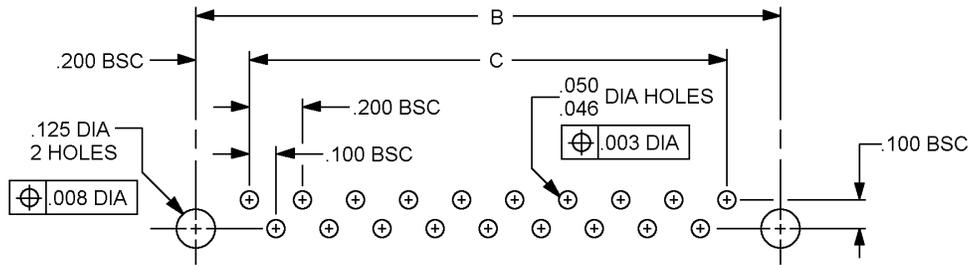
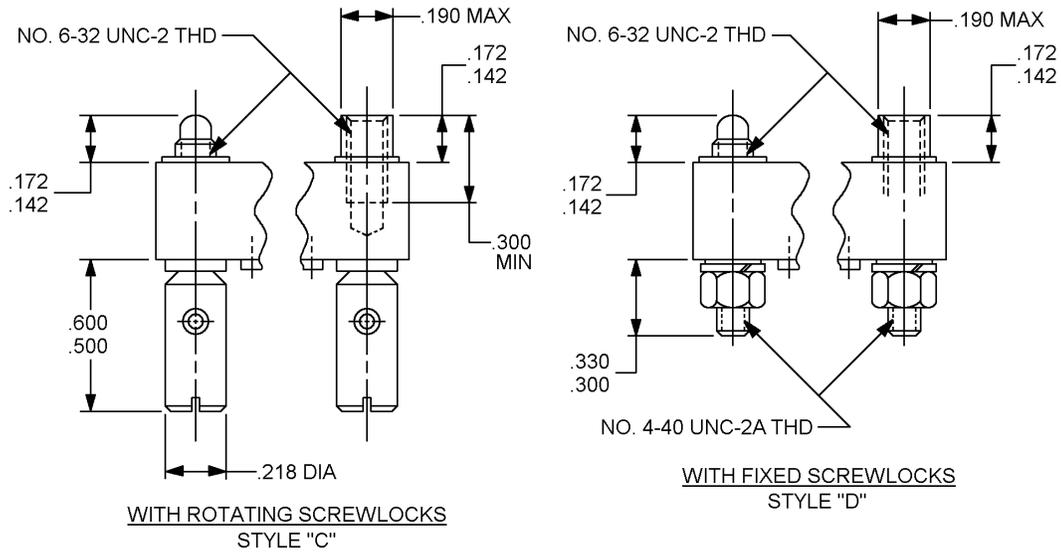




MIL-DTL-55302/18B



PRINTED WIRING GRID LAYOUT  
COMPONENT SIDE



Dimensions and Part or Identifying Number (PIN).

Mounting styles	Guide pins	Rotating screw-locks	Fixed screw-locks	Number of contacts	Dimensions		
					A ±.010	B BSC	C Ref
PIN M55302/18-( )	Dash number	Dash number	Dash number				
	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
.003	0.08	.100	2.54	.218	5.54	1.400	35.56
.006	0.15	.125	3.18	.230	5.84	1.500	38.10
.008	0.20	.130	3.30	.300	7.62	1.700	43.18
.012	0.30	.140	3.56	.330	8.38	1.800	45.72
.031	0.79	.150	5.33	.360	9.40	2.100	53.34
.0395	1.00	.156	5.54	.500	12.70	2.200	55.88
.0415	1.05	.160	5.59	.600	15.24	2.500	63.50
.046	1.17	.165	5.84	.800	20.32	2.600	66.04
.050	1.27	.190	7.62	1.000	25.40	2.900	73.66
.090	2.29	.200	8.38	1.200	30.48	3.600	91.44
.096	2.44	.210	5.33	1.300	33.02	4.000	101.60
						4.300	109.22

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-55302/17 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 (.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 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-55302/17	SAE-AMS-QQ-P-35
ASTM A276	SAE-AMS-QQ-N-290
ASTM B16	

MIL-DTL-55302/18B

CONCLUDING MATERIAL

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

Preparing activity:  
DLA - CC

(Project 5935-4411-014)

Review activities:  
Army - 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>.