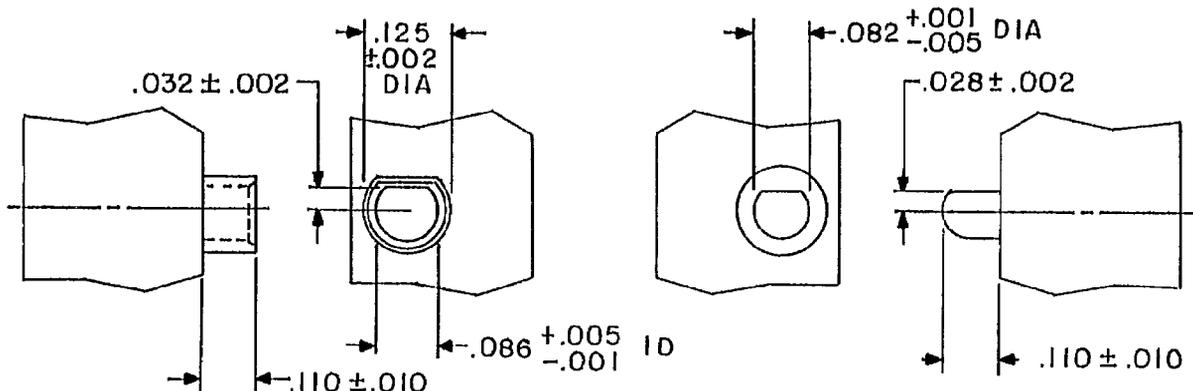


CONNECTOR POLARIZATION WITH D SHAPED GUIDE PINS AND SOCKETS (TYPE Y)



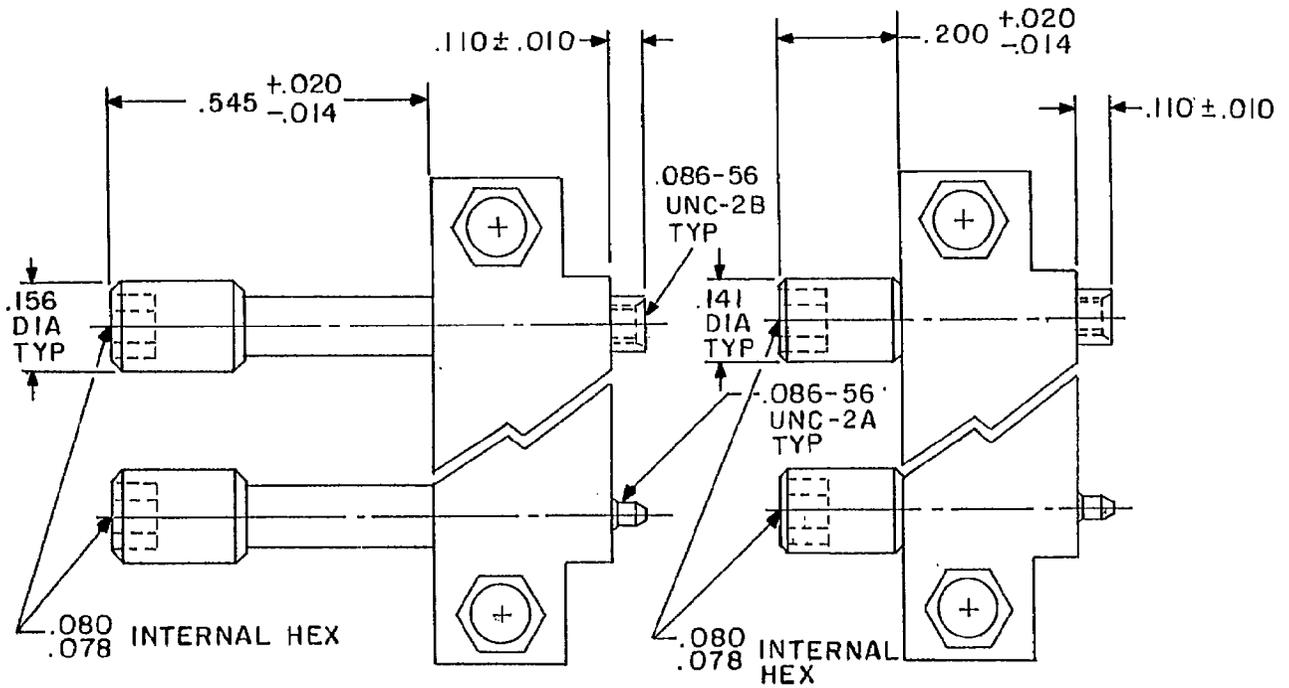
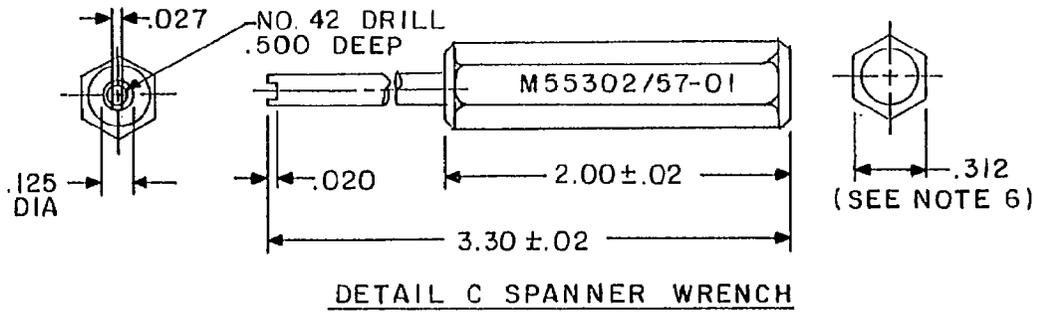
DETAIL A. POLARIZATION PINS/SOCKETS.
(FOR POLARIZATION CONFIGURATION SEE DETAIL B)

DETAIL B. POLARIZATION CONFIGURATION CHART

-1		-9		-17		-25		-33		-41		-49		-57	
-2		-10		-18		-26		-34		-42		-50		-58	
-3		-11		-19		-27		-35		-43		-51		-59	
-4		-12		-20		-28		-36		-44		-52		-60	
-5		-13		-21		-29		-37		-45		-53		-61	
-6		-14		-22		-30		-38		-46		-54		-62	
-7		-15		-23		-31		-39		-47		-55		-63	
-8		-16		-24		-32		-40		-48		-56		-64	

NOTE: PINS/SOCKETS IN CHART CAN BE EASILY ADJUSTED TO ANY DESIRED CONFIGURATION BY THE SPANNER WRENCH (SEE DETAIL C)

FIGURE 1. Connector, plug .075 (1.91 mm) spacing - Continued.



TYPE N TURNING HEX JACKSET

DETAIL D

TYPE S SHORT TURNING HEX JACKSET

DETAIL E

FIGURE 1. Connector, plug .075 (1.91 mm) spacing - Continued.

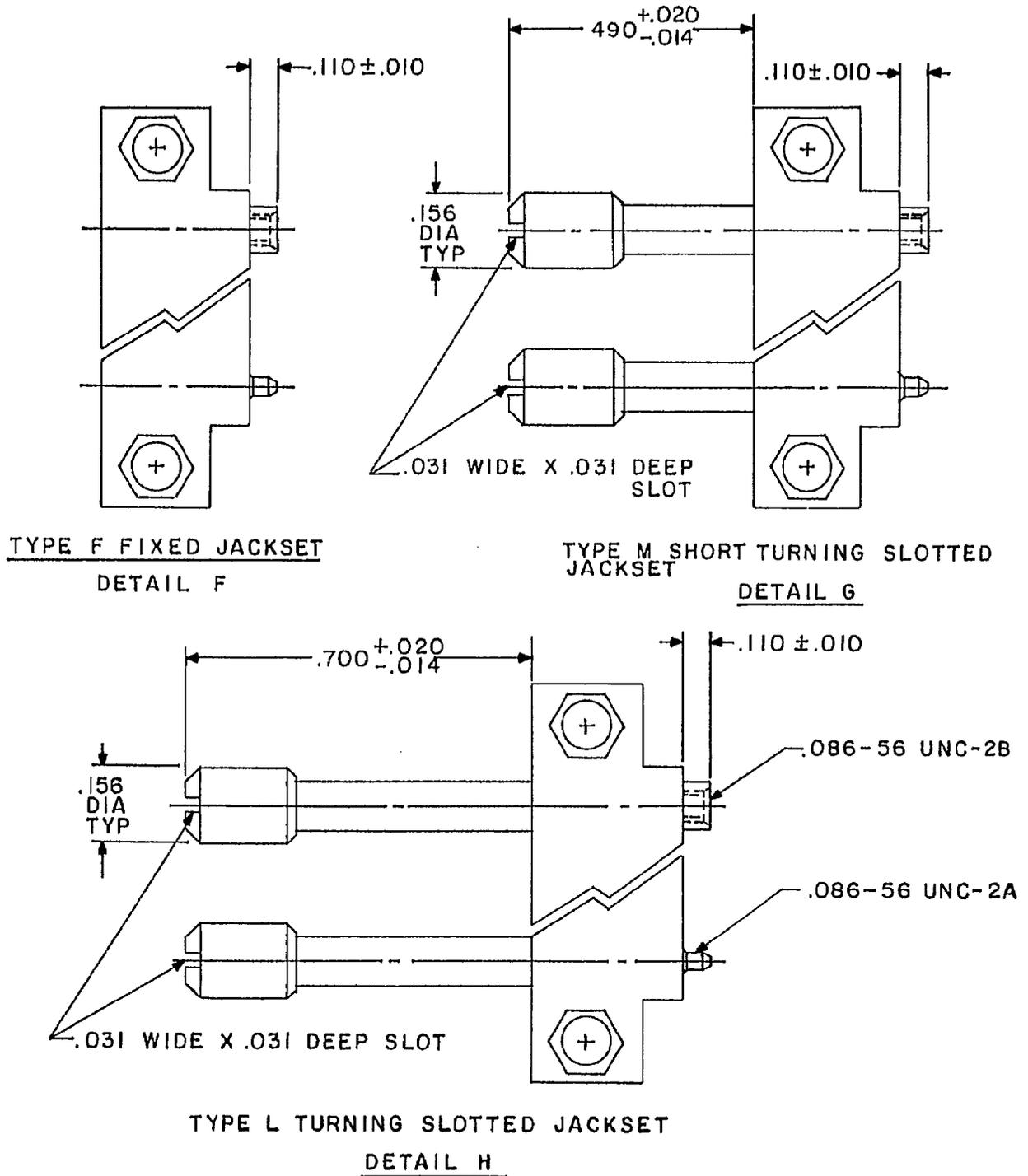
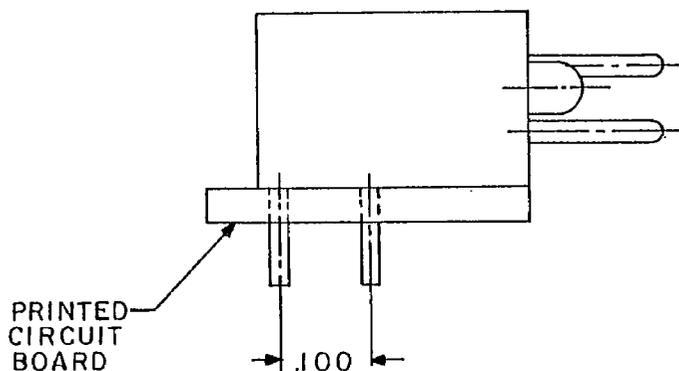


FIGURE 1. Connector, plug .075 (1.91 mm) spacing - Continued.



Number of contacts	Dimensions				
	A ±.010	BSC B	BSC C	BSC D	E ±.010
100	4.173 (105.99)	3.993 (101.42)	3.675 (93.35)	4.343 (110.31)	4.513 (114.63)

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.0375	0.95	.150	3.81
.002	0.05	.0625	1.59	.156	3.96
.005	0.13	.075	1.91	.170	4.32
.006	0.15	.078	1.98	.172	4.37
.008	0.20	.080	2.03	.200	5.08
.010	0.25	.082	2.08	.300	7.62
.014	0.36	.085	2.16	.312	7.92
.020	0.51	.086	2.18	.315	8.00
.023	0.58	.100	2.54	.400	10.16
.0245	0.62	.109	2.77	.490	12.45
.0255	0.66	.110	2.79	.545	13.84
.027	0.69	.125	3.18	.700	17.78
.028	0.71	.135	3.43	2.00	50.80
		.141	3.58	3.30	83.82

NOTES:

1. Dimensions are in inches.
2. Metric equivalents, in parentheses, are given for general information only.
3. Unless otherwise specified, tolerance is ±.005 (0.13 mm).
4. These connectors mate with connectors specified in MIL-C-55302/190 using appropriate hardware.
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. Handle shape optional.

FIGURE 1. Connector, plug .075 (1.91 mm) spacing - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Material: Guide pins, type X guide sockets, jackscrews, and jacksockets shall be made of corrosion resisting stainless steel in accordance with ASTM-A581 or ASTM-A582, passivated in accordance with QQ-P-35, or shall be corrosion resistant copper nickel alloy (61 ±2 percent copper, 25 ±2 percent nickel, 2.5 percent maximum other, and the balance zinc) and shall have a Brinell hardness of 145 to 175. Type Y guide sockets shall be beryllium copper in accordance with QQ-C-550, nickel plated in accordance with QQ-N-290, class 02, 50 to 150 microinches.

Plating: The contact plating shall be in accordance with MIL-C-55302, or gold in accordance with MIL-G-45204, type II, grade C, class 1, over nickel plating in accordance with QQ-N-290, class 02, 50 to 150 microinches in the engaging area and gold in accordance with MIL-G-45204, type II, grade C, class 00, or type III, grade A, class 00, over nickel plating in accordance with QQ-N-290, class 02, 50 to 150 microinches in the termination area.

Contact identification: See figure 1.

Mating and unmating:

Low insertion force contacts: The maximum mating force, in pounds, shall be the number of contacts multiplied by 0.25 and the withdrawal force, in pounds, shall be a minimum of 0.04 times the number of contacts and shall not exceed the measured insertion force.

Contact resistance: The average contact resistance of all contacts measured shall not exceed 0.007 ohm, and no individual contact pair shall have a resistance exceeding 0.015 ohm.

Dielectric withstanding voltage:

Sea level: 750 volts rms.

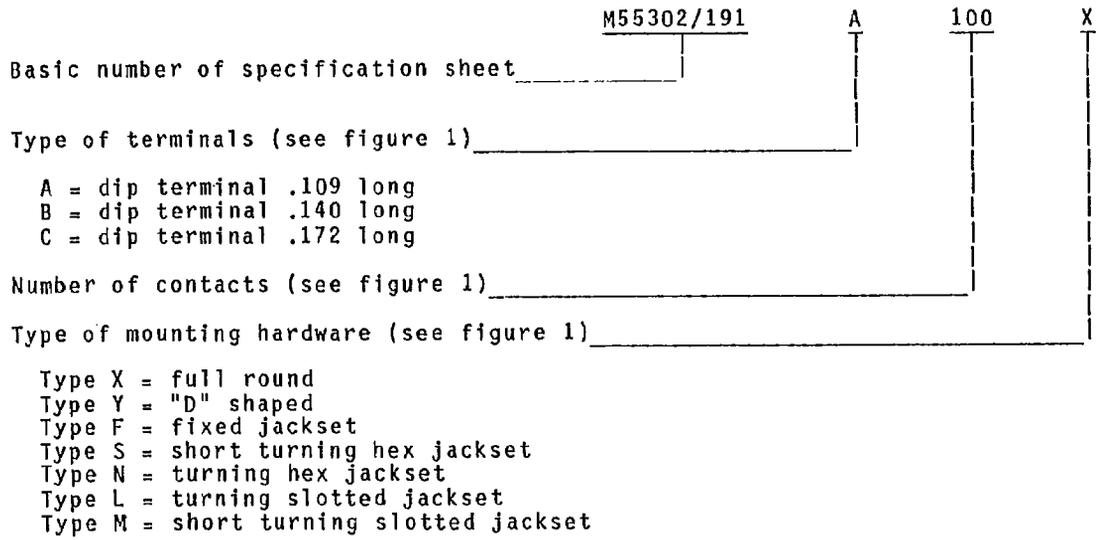
High altitude: 250 volts rms at 70,000 feet.

Current rating: 3.0 amperes maximum per contact.

Polarization: Type X, regular, guide pin and socket, full round (see figure 1). Type Y, adjustable "D" shaped guide pin and socket (see figure 1, detail A). All connectors are supplied in the -1 polarized position. For other than OEM use, connectors may be repolarized by using M55302/57-01 spanner wrench and M55302/190-01 guide pin and guide socket kit. When guides are removed and reinstalled in another position, apply Loctite 83-CV or equivalent to the threads. Ordering connectors in other than the -1 polarized position may be done by the OEM's by placing the desired polarized position in brackets three spaces after the part number on the purchase order. Example: M55302/57-A10Y [-32]. Polarization pins and sockets shall be adjusted to any desired configuration by spanner wrench (M55302/57-01). Ordering connectors in the -1 polarized position without Loctite 83-CV or equivalent applied may be done by placing a "-0" in brackets three spaces after the part number on the purchase order. Guide sets, as installed, shall withstand 7 ounce-inches backoff torque applied through the guide set mounting nut.

M55302/190-01 kit: Consists of one type Y "D" shaped guide socket and one type Y "D" shaped guide pin.

Example of part number:



CONCLUDING MATERIAL

Custodians:
 Army - CR
 Navy - EC
 Air Force - 17

Review activities:
 Army - AR, MI
 Navy - AS, OS, SH
 Air Force - 85, 99

User activities:
 Army - AT, AV, ME
 Navy - MC
 Air Force - 11, 19, 80

Preparing activity:
 Army - CR

Agent:
 DLA - ES

(Project 5935-3593-09)