

NOTICE OF CHANGEINCH-POUNDMIL-STD-1554
NOTICE 4
19 December 1989

MILITARY STANDARD

INSERT ARRANGEMENTS FOR
MIL-C-83723 SERIES III AND MIL-C-26500
ENVIRONMENT RESISTING, CIRCULAR,
ELECTRICAL CONNECTORS

TO ALL HOLDERS OF MIL-STD-1554:

1. THE FOLLOWING PAGES OF MIL-STD-1554 HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
2a	19 December 1989	2a	19 February 1980
2b	19 December 1989	NEW PAGE	---
2c	19 December 1989	NEW PAGE	---
3	19 December 1989	3	19 February 1980
4	19 December 1989	4	19 February 1980

2. RETAIN THIS NOTICE PAGE AND INSERT BEFORE THE TABLE OF CONTENTS.

3. Holders of MIL-STD-1554 will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - AS
Air Force - 85Preparing activity:
Air Force - 85Review activities:
Army - AR, AV, MI
Air Force - 11, 15, 17, 99
DLA - ESAgent:
DLA - ES
(Project 5935-3732)

MIL-STD-1554
NOTICE 4

Polarization table

Position	Shell key/keyway positions															Insert position	
	Size 8				Size 10				Size 12 through 24								
	A°	B°	C°	D°	A°	B°	C°	D°	A°	B°	C°	D°	E°	F°	G°		
N-Normal	105	140	215	265	105	140	215	265	105	140	215	265	105	140	215	265	0
1 <u>1/</u>	---	---	---	---	105	140	215	265	105	140	215	265	105	140	215	265	10
2 <u>1/</u>	---	---	---	---	105	140	215	265	105	140	215	265	105	140	215	265	20
3 <u>1/</u>	---	---	---	---	105	140	215	265	105	140	215	265	105	140	215	265	30
4 <u>1/</u>	---	---	---	---	105	140	215	265	105	140	215	265	105	140	215	265	40
5 <u>1/</u>	---	---	---	---	105	140	215	265	105	140	215	265	105	140	215	265	50
6	102	132	248	320	102	132	248	320	18	149	192	259	0				0
7	80	118	230	312	80	118	230	312	92	152	222	342	0				0
8	35	140	205	275	35	140	205	275	84	152	204	334	0				0
9	64	155	234	304	64	155	234	304	24	135	199	240	0				0
Y <u>2/</u>	---	---	---	---	25	115	220	270	98	152	268	338	0				0

1/ Inactive for new design.
2/ Alternate position "2" and "10" are cancelled and superseded by Position "Y".

FIGURE 1. Polarization.

MIL-STD-1554
NOTICE 4

Dimensions

Shell size	F +.000 -.005	G ±.003	H ±.003	J +.000 -.003	K +.005 -.000	L ±.003	M +.005 -.000	N +.005 -.000	P Min	R Max
8 <u>1/</u>	.424	.084	.042	.234	.428	.094	.063	.237	.352	.561
8 <u>2/</u>	.405	.084	.052	.225	.413	.094	.072	.228	.294	.562
10	.526	.084	.052	.285	.530	.094	.072	.288	.428	.696
12	.696	.084	.052	.370	.700	.094	.072	.373	.598	.875
14	.765	.084	.052	.405	.769	.094	.072	.408	.667	.936
16	.892	.115	.052	.468	.896	.125	.072	.471	.794	1.062
18	.998	.115	.052	.521	1.002	.125	.072	.524	.900	1.187
20	1.123	.115	.052	.583	1.127	.125	.072	.586	1.025	1.312
22	1.248	.115	.052	.646	1.252	.125	.072	.649	1.150	1.437
24	1.373	.115	.052	.708	1.377	.125	.072	.711	1.275	1.562

1/ Shell size 8 (bayonet MIL-C-83723 and MIL-C-26500 and threaded MIL-C-26500).
2/ Shell size 8 (MIL-C-83723, series III, threaded only).

FIGURE 1. Polarization - Continued.

MIL-STD-1554
NOTICE 4

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.352	8.94	.562	14.27	.998	25.35
.005	0.13	.370	9.40	.583	14.81	1.002	25.45
.042	1.07	.373	9.47	.586	14.88	1.025	26.04
.052	1.32	.405	10.29	.646	16.41	1.062	26.97
.063	1.60	.408	10.36	.649	16.48	1.123	28.52
.072	1.83	.413	10.49	.667	16.94	1.127	28.63
.084	2.13	.424	10.77	.696	17.68	1.150	29.21
.094	2.39	.428	10.87	.700	17.78	1.187	30.15
.115	2.92	.468	11.89	.708	17.98	1.248	31.70
.125	3.18	.471	11.96	.711	18.06	1.252	31.80
.225	5.72	.521	13.23	.765	19.43	1.275	32.38
.228	5.79	.524	13.31	.769	19.53	1.312	33.32
.234	5.94	.526	13.36	.794	20.17	1.373	34.87
.237	6.02	.530	13.46	.875	22.22	1.377	34.98
.285	7.24	.598	15.19	.892	22.66	1.437	36.50
.288	7.32	.561	14.25	.896	22.76	1.562	39.67
.294	7.47			.900	22.86		

FIGURE 1. Polarization - Continued.

MIL-STD-1554
NOTICE 4

5.2 Polarization (see figure 1).

- (a) Each insert arrangement is shown in the "normal position" in the shell.
- (b) In the normal position (N) the indexing radius coincides with the C_L of the master key or keyway of the shell.
- (c) For alternate polarization positions 1, 2, 3, 4, and 5, the socket insert is rotated clockwise relative to the centerline of the master key or keyway of the shell.
- (d) For alternate polarization positions 1, 2, 3, 4, and 5, the pin insert is rotated counter-clockwise relative to the centerline of the master key or keyway of the shell.
- (e) For alternate polarization positions 6, 7, 8, 9, and Y, the insert is in normal and the minor keys or keyways are relocated as indicated in figure 1 with reference to the master key or keyway.
- (f) Four keys or keyways (MMC) and insert shall be located within .004 either side of (TP) relative to master key or keyway (MMC) and shall OD or ID (MMC).
- (g) Alternate insert positions 1, 2, 3, 4, and 5 are for interchangeability use only. NOT RECOMMENDED FOR NEW DESIGN.

5.3 Marking. Marking shall be in accordance with MIL-C-83723 series III, MIL-C-26500, and as shown in the applicable section of this military standard.

5.4 Contacts. Solder contacts shall be in accordance with MIL-C-83723 or MIL-C-26500. Crimp contacts shall be in accordance with table I or table II.

TABLE I. Contact identification, MIL-C-83723.

Pins		Sockets	
Contact or cavity size	Part number	Contact or cavity size	Part number
<u>Power</u>		<u>Power</u>	
20-20	M39029/4-110	20-20	M39029/5-115
16-16	-111	16-16	-116
16-20	-112	16-20	-117
12-12	-113	12-12	-118
12-16	-114	12-16	-119
(MIL-C-39029/4)		(MIL-C-39029/5)	
<u>Thermocouple</u>		<u>Thermocouple</u>	
20-20	M39029/9-132	20-20	M39029/10-138
	-133		-139
	-134		-140
	-135		-141
	-136		-142
16-16	-514	16-16	-519
	-515		-520
	-516		-521
	-517		-522
	-518		-523
(MIL-C-39029/9)		(MIL-C-39029/10)	
<u>Shielded</u>		<u>Shielded</u>	
12	M39029/74-399	12	M39029/73-396
	-400		-397
	-401		-398
(MIL-C-39029/74)		(MIL-C-39029/73)	

MIL-STD-1554
NOTICE 4TABLE II. Contact identification, MIL-C-26500.

Pins		Sockets	
Contact or cavity size	Part number	Contact or cavity size	Part number
<u>Power</u>		<u>Power</u>	
20-20	M39029/31-240	20-20	M39029/32-259
20-20	-241	20-20	-260
20-20	-448	20-20	-449
		20-20	-242
16-16	-228	16-16	-247
16-16	-229	16-16	-248
12-12	-234	12-12	-253
12-12	-235	12-12	-254
(MIL-C-39029/31)		(MIL-C-39029/32)	
<u>Thermocouple</u>		<u>Thermocouple</u>	
20-20	M39029/31-224	20-20	M39029/32-243
	-225		-244
	-226		-245
	-227		-246
16-16	-230	16-16	-249
	-231		-250
	-232		-251
	-233		-252
12-12	-236	12-12	-255
	-237		-256
	-238		-257
	-239		-258
(MIL-C-39029/31)		(MIL-C-39029/32)	
<u>Shielded</u>		<u>Shielded</u>	
12	M39029/54-342	12	M39029/55-344
8	-343	8	-345
(MIL-C-39029/54)		(MIL-C-39029/55)	

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - AS
Air Force - 85

Review activities:

Army - AR, AV, MI
Navy - EC
Air Force - 11, 15, 17, 99
DLA - ES

Preparing activity:

Air Force - 85

Agent:

DLA - ES

Project 5935-3732)