

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

Reviewer activities: Army - MI, MU
Navy - EC, MC, OS
Air Force - 11, 15, 17, 80
DSA - ES

User activities: Army -
Navy -
Air Force -

P.A. AF-85		International Interest	TITLE CONNECTOR, RECEPTACLE, ELECTRICAL JAM NUT MOUNTING, SOLDER TYPE, HERMETIC SEAL, SERIES I		MILITARY STANDARD MS27470	
Other Cust ARMY-EL NAVY-AS		SUPERSEDES: MS27470 (USAF)		SHEET 1 OF 2		
Procurement Specification MIL-C-38999		DD FORM 672 1 SEP 63		5935-2005-11		

(F) FOR CHANGES SEE SHEETS 1 & 2

FOR DETAILS OF CONNECTOR FRONT END CONFIGURATION, SEE PROCUREMENT SPECIFICATIONS.

(F)

DETAIL BB

SHELL SIZE	RECOMMENDED PACKING ("O" RING)	RECOMMENDED POTTING MOLD
9	-9 -019	MS27333-10-1
11	-11 -022	-12-1
13	-13 -024	-14-1
15	-15 -026	-16-1
17	-17 -028	-18-1
19	-19 -128	-20-1
21	-21 -130	-22-1
23	-23 -132	-24-1
25	-25 -134	-28-1

EXAMPLE OF PART NUMBER:
MS27470 Y 17 D 26 S A

MS NO. CLASS SHELL SIZE (COLOR) FINISH INSERT ARR. NUMBER STYLE (S) POLARIZATION NO LETTER REQUIRED FOR NORMAL

(F)

FED. SUP CLASS
5935

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SHELL SIZE	K ±.016	M THD CLASS 2A UNEUF (PLATED)	CC DIA +.000 -.010	DD DIA ±.016	S ±.016	T +.011 -.000 DIA	V ±.011 DIA	X +.005 -.001	Y ±.005	Z DIA +.006 -.005
9	↑	.6875-24	.655	1.188	1.062	.642	.602	↑	↑	.777
11	↑	.8125-20	.755	1.375	1.250	.766	.726	↑	↑	.965
13	.109	1.000-20	.942	1.500	1.375	.892	.852	.094	.045	1.090
15	↓	1.125-18	1.066	1.625	1.500	1.018	.978	↓	↓	1.215
17	↓	1.250-18	1.191	1.750	1.625	1.142	1.102	↓	↓	1.340
19	↑	1.375-18	1.316	1.938	1.812	1.268	1.228	↑	↑	1.449
21	.140	1.500-18	1.441	2.062	1.938	1.392	1.352	.141	.075	1.574
23	↓	1.625-18	1.566	2.188	2.062	1.518	1.478	↓	↓	1.699
25	↓	1.750-18UNS	1.691	2.312	2.188	1.642	1.602	↓	↓	1.824

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.001	.03	.156	3.96	.965	24.51	1.375	34.93
.003	.08	.172	4.37	.978	24.84	1.392	35.36
.005	.13	.390	9.91	.980	24.89	1.441	36.60
.008	.20	.403	10.24	1.018	25.86	1.449	36.80
.010	.25	.515	13.08	1.062	26.97	1.478	37.54
.011	.29	.576	13.49	1.066	27.08	1.500	38.10
.015	.38	.599	15.21	1.090	27.69	1.518	38.56
.016	.41	.602	15.29	1.102	27.99	1.566	39.78
.020	.51	.629	15.98	1.105	28.47	1.574	39.98
.040	1.02	.642	16.31	1.142	29.01	1.602	40.69
.045	1.14	.655	16.64	1.188	30.18	1.625	41.28
.047	1.19	.726	18.44	1.191	30.25	1.642	41.71
.062	1.57	.754	19.15	1.215	30.86	1.691	42.95
.075	1.91	.755	19.18	1.228	31.19	1.699	43.15
.078	1.98	.766	19.46	1.230	31.24	1.750	44.45
.094	2.39	.777	19.74	1.250	31.75	1.812	46.02
.116	2.95	.852	21.64	1.268	32.21	1.824	46.33
.125	3.18	.879	22.33	1.316	33.43	1.938	49.23
.130	3.30	.892	22.66	1.340	34.04	2.062	52.37
.141	3.58	.915	23.24	1.352	34.34	2.188	55.58
.150	3.81	.942	23.93	1.355	34.42	2.312	58.72

NOTES:

- Dimensions are in inches.
- Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
- (F) For main keyway and keyway positions, see MIL-C-38999.
- Jam nut mounting receptacles shall be provided with an "O" ring.
- Diameters M, DD and Z shall be concentric within .015 T.I.R.
- Sides of groove may have 5° max taper.
- Recommended packing is for dimensions only. Material is optional.
- For design feature purposes. This standard takes precedence over documents referenced herein.
- Referenced documents shall be of the issue in effect on date of invitation for bid.

P.A. AF-85

International
interestOther Cust
ARMY-EL
NAVY-ASProcurement Specification
MIL-C-38999

TITLE

CONNECTOR, RECEPTACLE, ELECTRICAL
JAM NUT MOUNTING, SOLDER TYPE,
HERMETIC SEAL, SERIES I

SUPERSEDES:

MILITARY STANDARD

MS27470

SHEET 2 OF 2

DD FORM 672
1 SEP 63

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 8 SEP 1966 REVISED (E) 13 AUG 74 (F) FOR CHANGES SEE SHEETS 1 & 2