This standard has been approved by the Department of the USAF and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

DD FORM 1 SEP 63 **672-1** (Listed coordination)

PROCUREMENT SPECIFICATION: MIL-C-27599 (USAF)

P.A. 15

Other Cust

SUPERSEDES:

TITLE

CONNECTOR, RECEPTACLE, ELECTRIC, SOLDER TYPE, JAM NUT MOUNTING, HERMETIC SEAL, PIN, BAYONET COUPLING

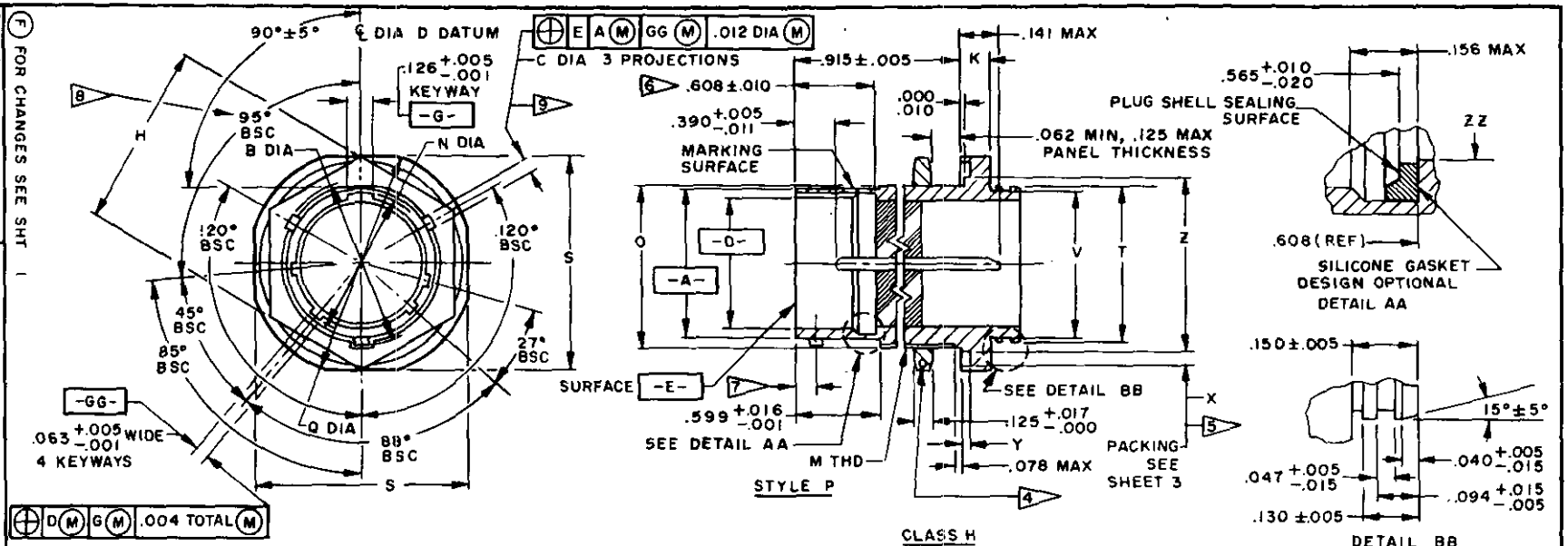
MILITARY STANDARD

MS20031(USAF)

SHEET 1 OF 1

EDITION OF 1 SEP 63 MAY BE USED.

Ⓕ FOR CHANGES SEE SHT 1



CLASS H

SHELL SIZE	A +.001 -.005 DIA	B +.000 -.016 DIA OVER PROJ	C +.006 -.002 DIA	D +.005 -.001 DIA	H ±.017	K ±.016 THK MTG FLANGE	M THD CLASS 2A (PLATED) UNEF	N +.005 -.006 DIA	O +.000 -.010 FLAT	Q ±.016 DIA	S ±.016	T +.011 -.000 DIA	V ±.011 DIA	X +.005 -.001	Y ±.005	Z +.006 -.005 DIA	ZZ MIN ID	FOR INSERT ARR SEE DWG MS	CC	RECOMMENDED POTTING MOLD MS NUMBER
9	.572	.662	.078	.442	.875	.109	1 1/16-24	.492	.655	1.188	1.062	.642	.602	.094	.045	.777	.403	20049	.010	MS27333-10-1
11	.700	.810		.570	1.000		1 3/16-20	.620	.755	1.375	1.250	.766	.726			.965	.515	20050		-12-1
13	.850	.960		.687	1.188		1-20	.769	.942	1.500	1.375	.892	.852			1.090	.629	20051		-14-1
15	.975	1.085		.812	1.312		1 1/8-18	.894	1.066	1.625	1.500	1.018	.978			1.215	.754	20052		-16-1
17	1.100	1.210		.937	1.438		1 1/4-18	1.019	1.191	1.750	1.625	1.142	1.102			1.340	.879	20053		-18-1
19	1.207	1.317		1.042	1.562	.140	1 3/8-18	1.124	1.316	1.938	1.812	1.268	1.228	.141	.075	1.449	.980	20054		-20-1
21	1.332	1.442		1.167	1.688		1 1/2-18	1.249	1.441	2.062	1.938	1.392	1.352			1.574	1.105	20055		-22-1
23	1.457	1.567		1.292	1.812		1 5/8-18	1.374	1.566	2.188	2.062	1.518	1.478			1.699	1.230	20056		-24-1
25	1.582	1.692	.125	1.417	2.000		1 3/4-18 UNS	1.499	1.691	2.312	2.188	1.642	1.602			1.824	1.355	20057		-28-1

Ⓕ CANCELED AFTER 15 DEC 80. ~~FOR SIMILAR CONNECTOR USE MS27470.~~

NOTES
1— DIMENSIONS IN INCHES
2— DIAMETERS A, D, M, Q, AND Z SHALL BE CONCENTRIC WITHIN .015 TIR.
3— DIAMETER A WITH RESPECT TO DIAMETER B, AND DIAMETER D WITH RESPECT TO DIAMETER N, SHALL BE CONCENTRIC AT MMC.
4 THREE LOCKWIRE HOLES, .062 ±.005 DIA, SHELL SIZES 9 THRU 25.
5 SIDES OF GROOVE MAY HAVE 5° MAX TAPER
6 DISTANCE TO BOTTOM OF GASKET GROOVE AND ALSO TO FACE OF VITREOUS INSERT. .100 BSC FOR SHELL SIZES 9 THRU 23; .109 BSC FOR SHELL SIZE 25.
7
8 NORMAL KEYWAY POSITION. FOR OTHER KEYWAY POSITIONS, SEE TABLE A, FIGURE 2 OF PROCUREMENT SPECIFICATION
9 THE GAGE FEATURES FOR GG SHALL BE CC SMALLER THAN THEIR MMC SIZE AT BASIC LOCATION.

EXAMPLE OF PART NUMBER

MS20031 H 17 A 26 P A

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

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REF DOCUMENTS SHALL BE OF ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

APPROVED 22 JAN 65 REVISED (A) 2 APR 65 (B) 11 JAN 66 (C) 9 AUG 66 (D) ENTIRE STD REDRAWN 1 FEB 67 (E) 20 DEC 67 (F) 15 DEC 80

FED. SUP CLASS 5935

☆U.S. GOVERNMENT PRINTING OFFICE — 1981: 703-023/838

Downloaded from http://www.everyspec.com