

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

**FED. SUP CLASS**  
**5935**

**INACTIVE FOR NEW DESIGN**  
**AFTER 13 AUG 74 USE MS27499**

**CLASS E FINISH C**

SHELL SIZE	A	B	C	D	I	L	M	N	O	R	S	T	CC	FOR INSER. ARR. SEE DWG NS
8	.473	.563	.362	.290	.453	.412	1.078	.297	.828				.004	27343, 27516
10	.590	.680	.490	.418	.578	.540	1.266	.395	.954					27344, 27517
12	.750	.859	.607	.532	.703	.689	1.391	.406	1.047					27345, 27518
14	.875	.984	.732	.657	.828	.814	1.516	.453	1.141			.120		27346, 27519
16	1.000	1.108	.857	.782	.953	.939	1.641	.4845	1.234					27347, 27520
18	1.125	1.233	.962	.871	1.062	.939	1.766	.531	1.328					27348, 27521
20	1.250	1.358	1.087	.996	1.188	1.164	1.891	.578	1.453					27349, 27522
22	1.375	1.483	1.215	1.121	1.312	1.289	2.016	.625	1.578					27350, 27523
24	1.500	1.610	1.337	1.246	1.438	1.414	2.204	.6875	1.703			.147		27351, 27524

**EXAMPLE OF PART NUMBER**

MS 27504 E 24 C 61 P A

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

**NOTES:**

1. THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

2. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF IMITATIONS FOR BID.

3. INSERT FRONT SURFACE SHALL BE FLAT WITHIN .005 T.I.R.

4. DIMENSIONS IN INCHES.

5. THE POINT AT WHICH A GAGE PIN HAVING THE SAME BASIC DIAMETER AS THE MATING CONTACT AND A SQUARE FACE, TOUCHES SOCKET CONTACT SPRING NORMAL KEYWAY POSITION. FOR OTHER KEYWAY POSITIONS, SEE FIGURE 6 OF PROCEDURE DOCUMENT.

6. DIAMETERS A AND D SHALL BE CONCENTRIC WITHIN .015 T.I.R.

7. DIAMETER A WITH RESPECT TO DIAMETER B, AND DIAMETER D WITH RESPECT TO DIAMETER N, SHALL BE CONCENTRIC AT MMC.

8. DIAMETERS D AND I SHALL BE CONCENTRIC WITHIN .005 T.I.R. AT MMC.

9. THE GAGE FEATURES FOR GG SHALL BE CC SMALLER THAN THEIR MMC AT BASIC LOCATION.

10. THE GAGE FEATURES FOR GG SHALL BE .010 SMALLER THAN THEIR MMC AT BASIC LOCATION.

**APPROVED** 8 MAR 68 **REVISED** 13 AUG 74

**ENTIRE STANDARD REVISED**

P.A. AF-85 Other Cust	International interest	<b>TITLE</b> CONNECTOR, RECEPTACLE, ELECTRIC, BOX MOUNTING FLANGE, CRIMP TYPE, BAYONET COUPLING, SERIES II.	<b>MILITARY STANDARD</b>
Procurement Specification MIL-C-38999		SUPERSEDES:	<b>MS27504(USAF)</b>
SHEET 1 OF 1			