

INCH-POUND

MS27470H  
 w/AMENDMENT 1  
 2 February 2017  
 SUPERSEDING  
 MS27470H  
 13 April 2012

DETAIL SPECIFICATION SHEET

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

This specification is approved for use by all  
 Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein  
 shall consist of this specification sheet and MIL-DTL-38999.

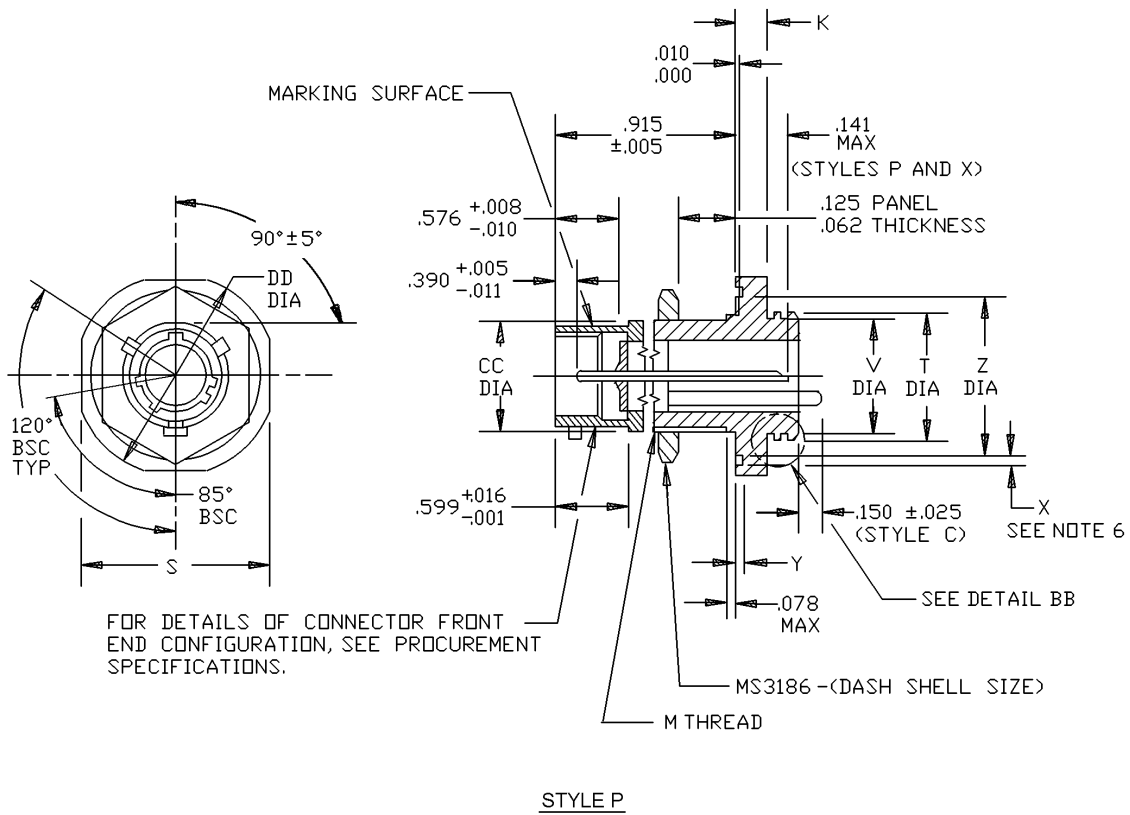
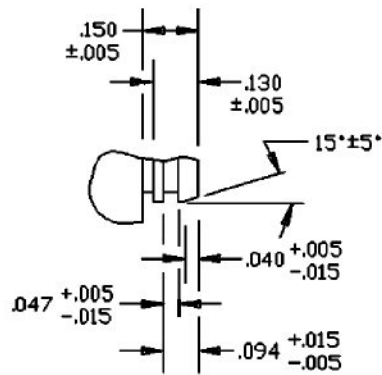
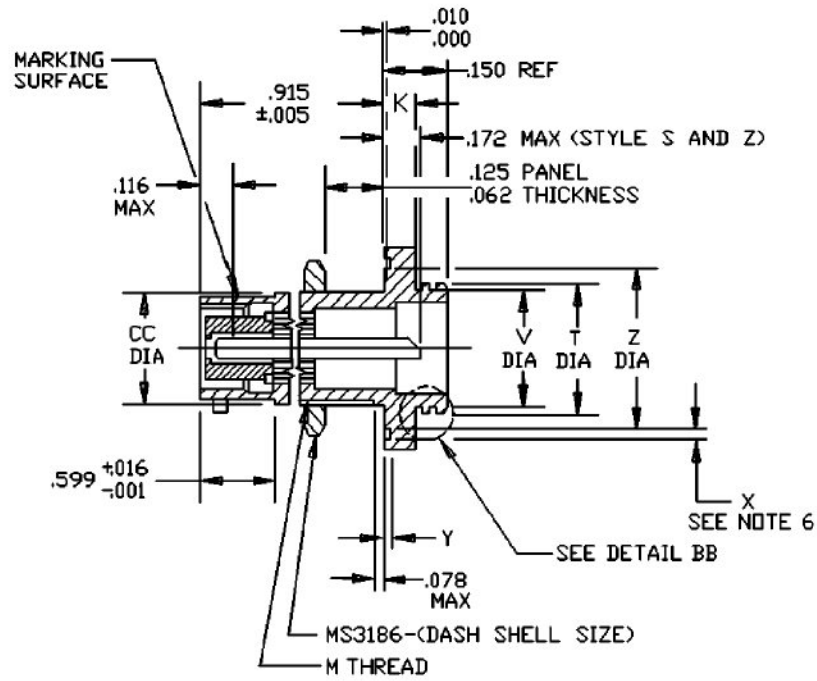


FIGURE 1. Plug, class Y.



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DETAIL BB

STYLE S

FIGURE 1. Plug, class Y - Continued.

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Shell size	O-ring PIN M25988/3 dash number (see note 7)	Recommended potting mold M85049/74- (see SAE-AS85049/74)
9	-019	10-1
11	-022	12-1
13	-024	14-1
15	-026	16-1
17	-028	18-1
19	-128	20-1
21	-130	22-1
23	-132	24-1
25	-134	28-1

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

STYLES P and S

FIGURE 1. Plug, class Y - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.156	3.96	.965	24.51	1.375	34.93
.003	0.08	.172	4.37	.978	24.84	1.392	35.36
.005	0.13	.390	9.91	.980	24.89	1.441	36.60
.008	0.20	.403	10.24	1.018	25.86	1.449	36.80
.010	0.25	.515	13.08	1.062	26.97	1.478	37.54
.011	0.29	.576	13.49	1.066	27.08	1.500	38.10
.015	0.38	.599	15.21	1.090	27.69	1.518	38.56
.016	0.41	.602	15.29	1.102	27.99	1.566	39.78
.020	0.51	.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:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. For main key and minor key positions, see MIL-DTL-38999.
4. Jam-nut mounting receptacles shall be provided with an O-ring.
5. Diameters M, DD and Z shall be concentric within .015 inches (0.381 mm) TIR.
6. Sides of groove may have 5° max taper.
7. See requirements.

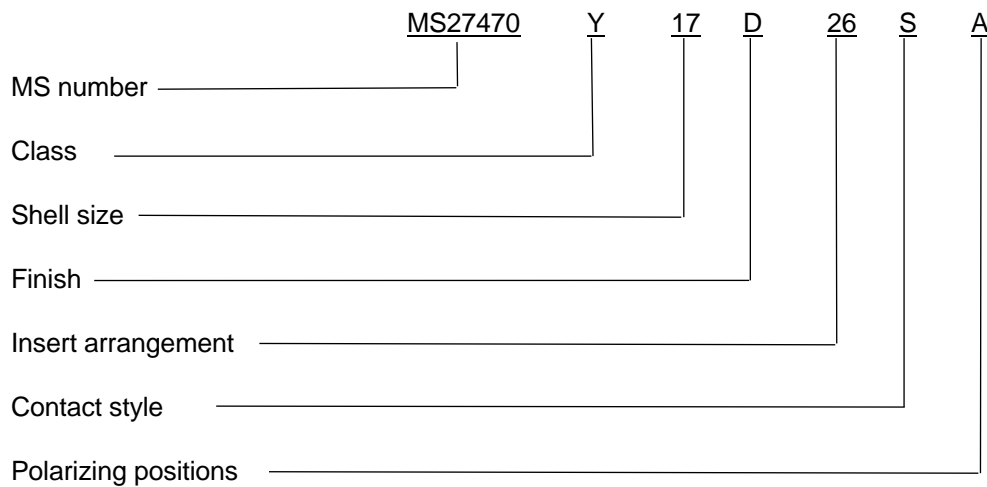
FIGURE 1. Plug, class Y - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.  
 Interface dimensions shall conform to MIL-DTL-38999.  
 Mating connectors: MS27467, MS27653 and MS27661.  
 Insert arrangements: See MIL-STD-1560.  
 Hex nuts: See MS3186.  
 O-ring: See MIL-R-25988/3.

Part or Identifying Number (PIN) example:



Note: For the normal position only, no letter designator is marked on the part, and no letter designator is included in the PIN to indicate the "normal" position. A letter designator is required for all other polarization positions.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-38999, this document references the following:

- MIL-R-25988/3
- MIL-STD-1560
- MS3186
- MS27467
- MS27653
- MS27661
- SAE-AS85049/74

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CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - AS  
Air Force - 85  
DLA - CC

Preparing activity:

DLA - CC

(Project: 5935-2017-032)

Review activities:

Army - AR, MI  
Navy - EC, MC, OS  
Air Force - 19, 99  
DLA - IS

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.