

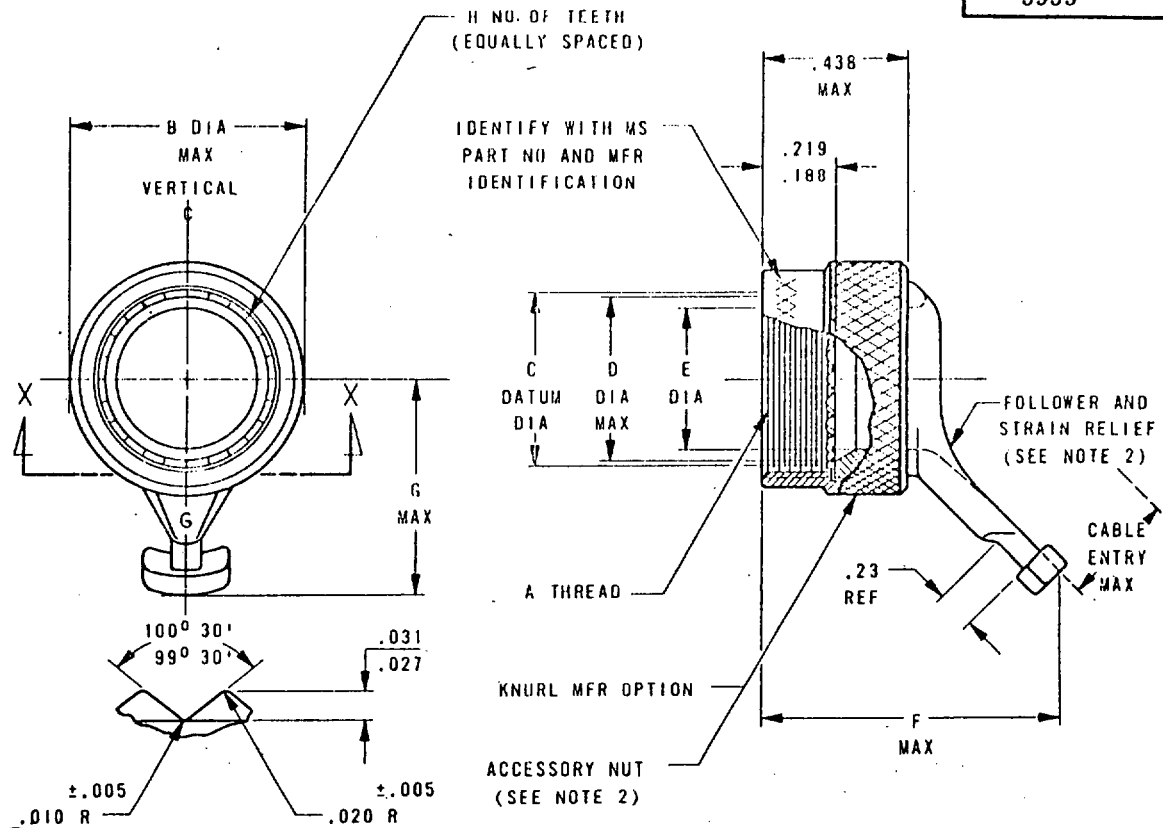
FED. SUP CLASS  
5935

Reviewer activities: Army  
Navy  
Air Force  
DSA-ES

User activities: Army  
Navy  
Air Force

MU  
EC

11, 15, 17, 80



©  
CANCELED - FOR PROCUREMENT USE  
MIL-C-85049/57

DASH NO.	FITS SHELL OF CONNECTOR		A THREAD CLASS 2B	B DIA MAX	C DATUM DIA	D DIA MAX	E DIA ±.005	F MAX	G MAX	H NO. OF TEETH	CABLE ENTRY MAX	WEIGHT IN LBS
	SERIES II	SERIES I										
-08	8	9	.4375-28 UNEF	.687	.366	.347	.269	1.33	.88	12	.264	
-10	10	11	.5625-24 UNEF	.782	.487	.472	.397	1.33	.83	16	.392	
-12	12	13	.6875-24 UNEF	.937	.609	.586	.511	1.33	.94	20	.506	
-14	14	15	.8125-20 UNEF	1.050	.731	.711	.636	1.83	1.25	24	.631	
-16	16	17	.9375-20 UNEF	1.239	.853	.836	.761	1.83	1.31	28	.756	
-18	18	19	1.0625-18 UNEF	1.378	.975	.942	.850	1.93	1.38	32	.845	
-20	20	21	1.1875-18 UNEF	1.500	1.097	1.067	.975	1.99	1.50	36	.970	
-22	22	23	1.3125-18 UNEF	1.631	1.218	1.192	1.100	1.99	1.69	40	1.095	
-24	24	25	1.4375-18 UNEF	1.825	1.340	1.309	1.225	2.14	1.75	44	1.220	

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.005	.13	.392	9.92	.636	16.15	.850	21.59	1.095	27.81	1.340	34.04
.010	.25	.397	10.08	.687	17.45	.853	21.67	1.097	27.86	1.378	35.00
.020	.51	.4375	11.11	.6875	17.46	.88	22.35	1.100	27.94	1.38	35.05
.027	.69	.438	11.13	.688	17.48	.937	23.80	1.1875	30.16	1.4375	36.51
.031	.79	.472	11.99	.711	18.06	.9375	23.81	1.192	30.28	1.500	38.10
.188	4.78	.487	12.37	.731	18.57	.938	23.83	1.218	30.94	1.631	41.43
.219	5.56	.506	12.85	.756	19.20	.94	23.88	1.220	30.99	1.69	42.93
.23	5.84	.511	12.98	.761	19.33	.942	23.93	1.225	31.12	1.75	44.45
.264	6.71	.5625	14.29	.782	19.86	.970	24.64	1.25	31.75	1.825	46.36
.269	6.83	.586	14.88	.8125	20.64	.975	24.77	1.309	33.25	1.83	46.48
.347	8.81	.609	15.47	.836	21.23	1.050	26.67	1.31	33.27	1.93	49.02
.366	9.30	.631	16.03	.845	21.46	1.0625	26.99	1.3125	33.34	1.99	50.55
						1.067	27.10	1.33	33.78	2.14	54.36

© For changes see sheet 1

P.A. AF-85	International Interest	TITLE	MILITARY STANDARD
Other Cust Army- CR Navy- AS		CLAMP, STRAIN RELIEF, 45°	MS27669
Procurement Specification MIL-C-38999		SUPERSEDES:	SHEET 1 OF 2

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

5935-3614-02

AMSC N/A

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APPROVED 10 NOV 72 REVISED (A) 22 FEB 74 (B) 18 DEC 74 (C) 18 MAR 88

This military standard is mandatory 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.

FED. SUP CLASS  
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## NOTES:

1. Dimensions are in inches.
2. Complete strain relief unit consists of accessory nut and a follower with strain relief arm. The accessory nut shall be captivated to the follower and free to rotate.
3. Materials: Aluminum alloy.
4. Finish on strain relief hardware shall be:
  - B. Cadmium plate per QQ-P-416, Type II, class 3: color dull olive drab.
  - C. Anodic, type II, to MIL-A-8625, class 2, color - black.
  - F. Electroless nickel per MIL-C-26074, class 3 or 4, grade B.
5. Strain relief unit is to be used with MS17821-1 plastic strap, MIL-T-713 lacing twine or MIL-T-43435 lacing tape or equivalent.
6. Each strain relief unit shall be identified with manufacturer's name or trademark and the appropriate MS part number.
7. Qualification: One sample in each size range (lower, middle, and upper) for which qualification is desired shall be tested. Each sample shall be assembled to a qualified connector or a connector undergoing qualification. The connector insert arrangement shall be of the maximum number of contacts, using the appropriate wire size approaching the minimum wire diameter. Testing shall be as follows and shall be performed in the sequence listed:
  - A. Examination of product.
  - B. Magnetic permeability - The relative magnetic permeability shall be less than 2.0 when checked with an indicator conforming to MIL-I-17214. Wired assemblies shall not be carrying current.
  - C. Vibration - in accordance with method 2005 of MIL-STD-1344, test condition III.
  - D. Shock - in accordance with method 2004 of MIL-STD-1344, test condition A.
  - E. Salt spray (corrosion) - in accordance with method 1001 of MIL-STD-1344, condition B.
  - F. Test report: Three copies of the Test Report shall be submitted to the qualification agency together with new untested units of the same quantity and production lot as used for qualified by similarity. The test report shall include the following:
    1. Actual results of all qualification measurements required by the specification.
    2. Certifications of all materials and finishes.
8. Quality assurance:
  - A. Examination of product.
9. The items described herein are covered by patent 3, 603, 913 and 3, 732, 527.
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## STRAIN RELIEF PART NUMBER

MS27669 B 12  
 MS NUMBER \_\_\_\_\_  
 FINISH - SEE NOTE 4 \_\_\_\_\_  
 DASH NO. \_\_\_\_\_

P.A. AF-85	International interest	TITLE	MILITARY STANDARD
Other Cust Army-CR Navy-AS		CLAMP, STRAIN RELIEF, 45°	MS27669
Procurement Specification MIL - C - 38999		SUPERSEDES:	SHEET 2 OF 2

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.  
1 SEP 63

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

User activities: Army  
Navy  
Air Force

APPROVED 10 NOV 72 REVISED © FOR CHANGES SEE PAGE 1