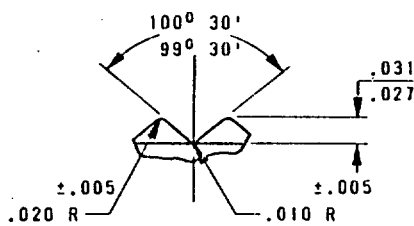
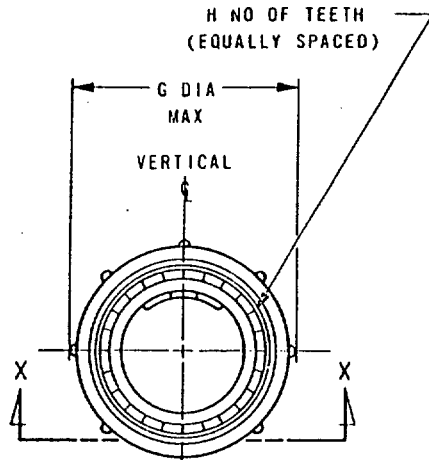
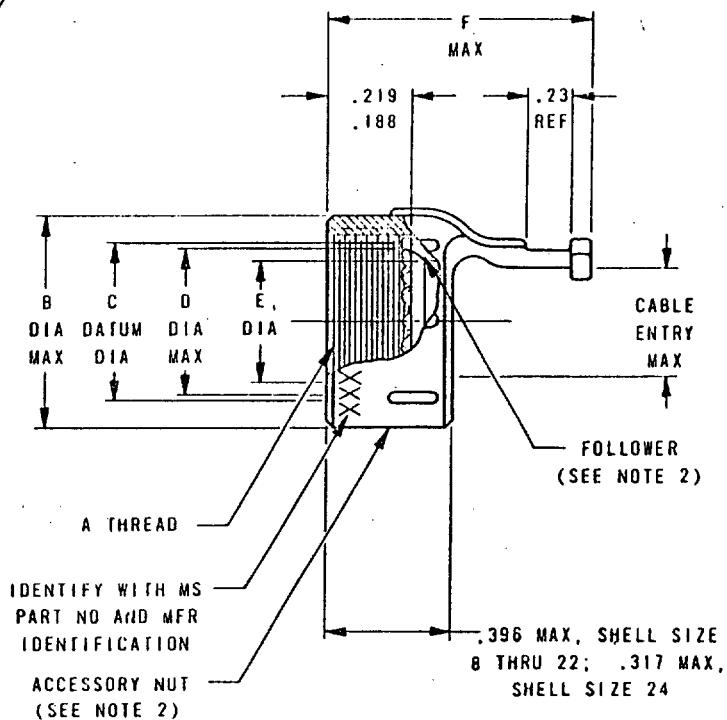


FED. SUP CLASS
5935

VIEW X-X

LESS ACCESSORY NUT



① TYPE 'F' 1/ Type F inactive for new design
 CANCELED-FOR PROCUREMENT USE
 MIL-C-85049/56

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 DIA MAX	H NO. OF TEETH	CABLE ENTRY MAX	WEIGHT IN LBS
	SERIES II	SERIES I										
-08	8	9	.4375-28 UNEF	.561	.366	.347	.269	1.06	.611	12	.264	
-10	10	11	.5625-24 UNEF	.686	.487	.472	.397	1.06	.736	16	.392	
-12	12	13	.6875-24 UNEF	.822	.609	.586	.511	1.06	.872	20	.506	
-14	14	15	.8125-20 UNEF	.936	.731	.711	.636	1.31	.986	24	.631	
-16	16	17	.9375-20 UNEF	1.062	.853	.836	.761	1.31	1.111	28	.756	
-18	18	19	1.0625-18 UNEF	1.186	.975	.942	.850	1.31	1.236	32	.845	
-20	20	21	1.1875-18 UNEF	1.322	1.097	1.067	.975	1.31	1.372	36	.970	
-22	22	23	1.3125-18 UNEF	1.447	1.218	1.192	1.100	1.31	1.486	40	1.095	
-24	24	25	1.4375-18 UNEF	1.561	1.340	1.309	1.225	1.25	1.622	44	1.220	

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.005	.13	.397	10.08	.6875	17.46	.942	23.93	1.192	30.28
.010	.25	.4375	11.11	.711	18.06	.970	24.64	1.218	30.94
.020	.51	.472	11.99	.731	18.57	.975	24.77	1.220	30.99
.027	.69	.487	12.37	.736	18.69	.986	25.04	1.225	31.12
.031	.79	.506	12.85	.756	19.20	1.06	26.92	1.236	31.39
.188	4.78	.511	12.98	.8125	20.64	1.062	26.97	1.309	33.25
.219	5.56	.561	14.25	.822	20.88	1.0625	26.99	1.31	33.27
.23	5.84	.5625	14.29	.836	21.23	1.067	27.10	1.3125	33.34
.264	6.71	.586	14.88	.845	21.46	1.095	27.81	1.322	33.58
.269	6.83	.609	15.47	.850	21.59	1.097	27.86	1.340	34.04
.317	8.05	.611	15.52	.853	21.67	1.100	27.94	1.372	34.85
.347	8.81	.631	16.03	.872	22.15	1.111	28.22	1.4375	36.51
.366	9.30	.636	16.15	.936	23.77	1.186	30.12	1.447	36.75
.392	9.96	.686	17.42	.9375	23.81	1.1875	30.16	1.486	37.74
.396	10.06							1.561	39.65

① FOR CHANGES SEE PAGE 1

P.A. AF-85	International interest	TITLE	MILITARY STANDARD
Other Cust Army-CR Navy-AS		CLAMP, STRAIN RELIEF, STRAIGHT	MS27668
Procurement Specification MIL-C-38999		SUPERSEDES:	PAGE 1 OF 3

AMSC N/A™ 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

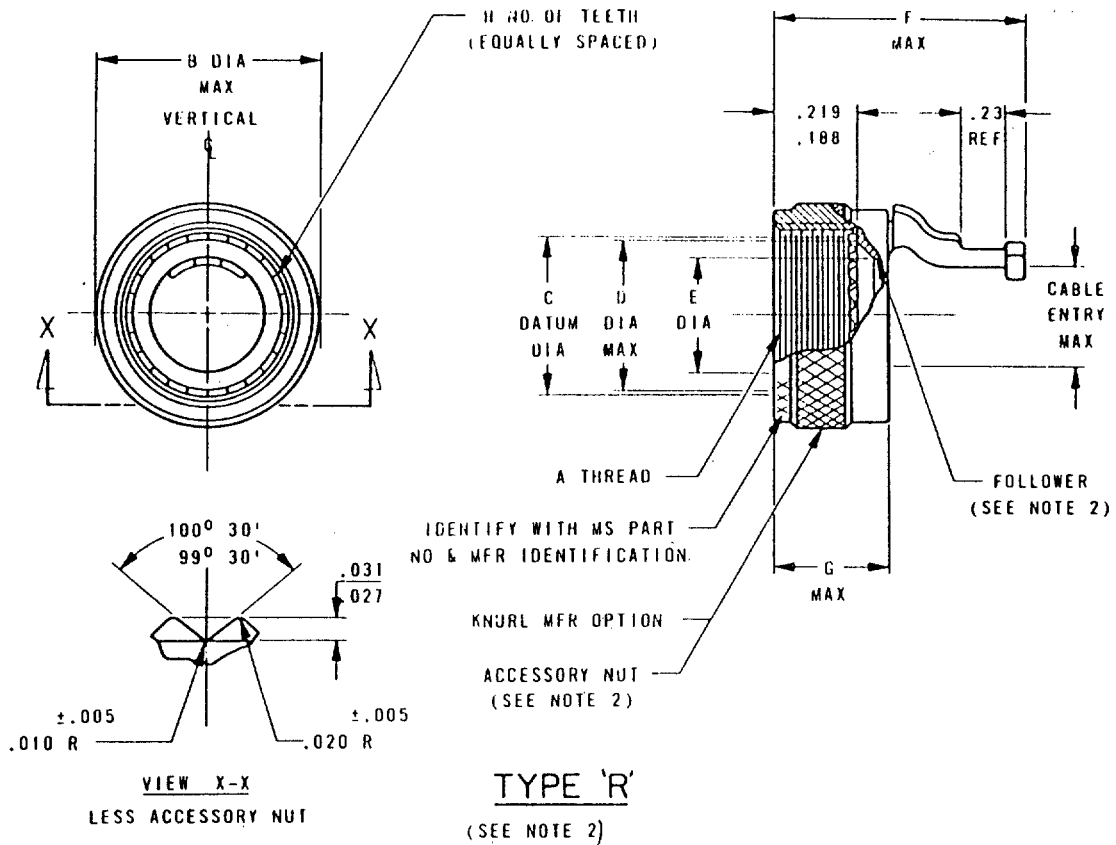
5935-3614-01

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APPROVED 10 NOV 72 REVISED A 22 FEB 74 B 18 DEC 74 C 18 DEC 78 D 18 MAR 88

Reviewer activities: Army AR-
 Navy EC
 Air Force 11, 15, 17, 99
 DLA-ES

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
5935

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
	MIL-C-38999	SERIES I										
-08	8	9	.4375-28 UNEF	.617	.366	.347	.269	1.09	.438	12	.264	
-10	10	11	.5625-24 UNEF	.734	.487	.472	.397	1.09		16	.392	
-12	12	13	.6875-24 UNEF	.858	.609	.586	.511	1.15		20	.506	
-14	14	15	.8125-20 UNEF	.984	.731	.711	.636	1.33		24	.631	
-16	16	17	.9375-20 UNEF	1.112	.853	.836	.761	1.33		28	.756	
-18	18	19	1.0625-18 UNEF	1.218	.975	.942	.850	1.39		32	.845	
-20	20	21	1.1875-18 UNEF	1.345	1.097	1.067	.975	1.52		36	.970	
-22	22	23	1.3125-18 UNEF	1.468	1.218	1.192	1.100	1.64		40	1.095	
-24	24	25	1.4375-18 UNEF	1.593	1.340	1.309	1.225	1.78	.438	44	1.220	

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.005	.13	.397	10.08	.711	18.06	.970	24.64	1.220	30.99
.010	.25	.4375	11.11	.731	18.57	.975	24.77	1.225	31.12
.020	.51	.438	11.12	.734	18.64	.984	24.99	1.309	33.25
.027	.69	.472	11.99	.756	19.20	1.0625	26.99	1.3125	33.34
.031	.79	.487	12.37	.761	19.33	1.067	27.10	1.33	33.78
.188	4.78	.506	12.85	.8125	20.64	1.09	27.69	1.340	34.04
.219	5.56	.511	12.98	.836	21.29	1.095	27.81	1.345	34.16
.23	5.84	.5625	14.29	.845	21.46	1.097	27.86	1.39	35.31
.264	6.71	.586	14.88	.850	21.59	1.100	27.94	1.4375	36.51
.269	6.83	.609	15.47	.853	21.67	1.112	28.24	1.468	37.29
.347	8.81	.617	15.67	.858	21.79	1.15	29.21	1.52	38.61
.366	9.30	.631	16.03	.9375	23.81	1.1875	30.16	1.593	40.46
.388	9.86	.636	16.15	.942	23.93	1.192	30.28	1.64	41.66
.392	9.96	.6875	17.46			1.218	30.94	1.78	45.21

P.A AF-85

International
interest

TITLE

CLAMP, STRAIN RELIEF, STRAIGHT

MILITARY STANDARD

MS 27668

Procurement Specification
MIL-C-38999

SUPERSEDES:

PAGE 2 OF 3

DD FORM 1 MAY 73 672

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

REVISED 10 NOV 72

APPROVED 10 NOV 72

User activities: Army -
Navy -
Air Force -

Review activities: Army -AR
Navy -EC
Air Force -11,15,17,99
DLA -ES

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 when applicable.

NOTES:

1. Dimensions are in inches.
2. Type 'F': Complete strain relief unit consists of body with arm and a follower free to rotate.
Type 'R': Complete strain relief 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: See MIL-C-38999
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 trade-mark 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 qualification 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 patents 3, 603, 913 and 3, 732, 527.
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CLAMP PART NUMBER

MS27668 B 12 R

MS NUMBER _____

FINISH-SEE NOTE 4 _____

DASH NUMBER _____

F = FIXED SUPPORT ARM _____

R = ROTATABLE SUPPORT ARM _____

P.A AF-85	International interest	TITLE	MILITARY STANDARD
Other Cust ARMY - CR NAVY - AS		CLAMP, STRAIN RELIEF, STRAIGHT	MS 27668
Procurement Specification MIL-C - 38999		SUPERSEDES:	PAGE 3 OF 3

User activities: Army - AR
Navy - EC
Air Force - 11,17,99,15
DLA - ES

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REVISED (D) FOR CHANGES SEE PAGE 1

APPROVED 10 NOV 72