

REV.
A

AS85049/42

FEDERAL SUPPLY CLASS
5935

RATIONALE

UPDATE CONVERTED, WORD-FOR-WORD SPECIFICATIONS TO INCORPORATE OUTSTANDING AMENDMENTS AND ENGINEERING POSITION LETTERS, REVISE/CORRECT ERRORS WITHIN DOCUMENT, DRAWINGS AND TABLES AND UPDATE SPECIFICATION CALLOUTS.

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.

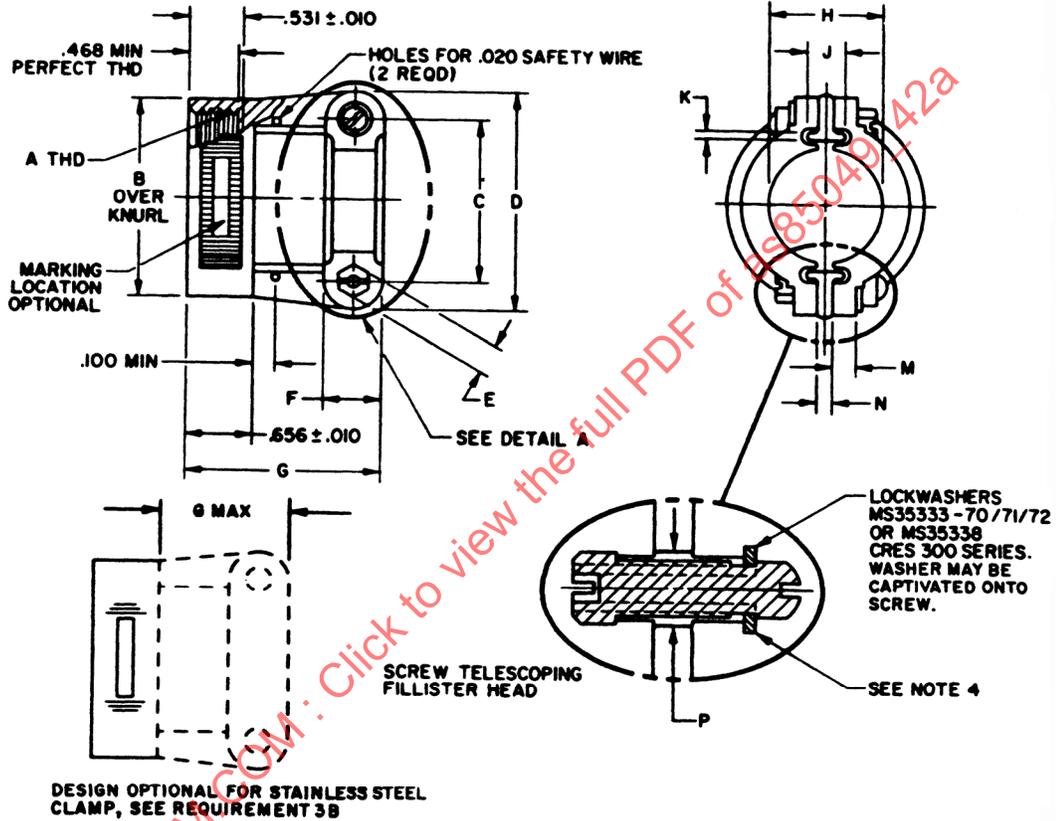
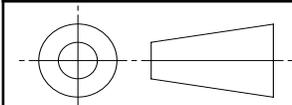


FIGURE 1 - CONFIGURATION AND DIMENSIONS

DETAIL A

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, NONENVIRONMENTAL,
STRAIN RELIEF, STRAIGHT, CATEGORY 4A
(FOR MIL-DTL-5015 SOLDER TYPE, V THREAD OF MS310X
CLASSES A, B, C OR K CONNECTORS)

AS85049/42
SHEET 1 OF 5

REV.
A

Copyright © 2006 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: 724-776-4970 (outside USA)

Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

REVISED 2006-06

ISSUED 1998-08

TABLE 1 - DIMENSIONS

DASH NO.	A THREAD CLASS 2B	B DIA MAX	C $\pm .010$	D $\pm .020$	E $+ .000$ $- .007$	F $\pm .010$	G $\pm .020$	H (SEE NOTE 6) WIRE BUNDLE ACCOMMODATION RANGE	
								MIN	MAX
								-4D	.625-24UNEF
-6D	.750-20UNEF	1.031	.763	1.125	.250	.375	1.281	.250	.437
-8D	.875-20UNEF	1.250	.942 $\pm .032$	1.312	.250	.422 $\pm .026$	1.281	.312	.562
-10D	1.000-20UNEF	1.250	.964	1.312	.250	.437	1.281	.350	.625
-12D	1.1875-18UNEF	1.437	1.130	1.531	.250	.437	1.312	.500	.750
-16D	1.4375-18UNEF	1.688	1.375	1.750	.250	.531	1.406	.625	.937
-20D	1.750-18UNS	2.000	1.703	2.093	.312	.531	1.593	.875	1.250
-24D	2.000-18UNS	2.250	1.906	2.343	.312	.531	1.625	1.000	1.375
-28D	2.250-16UN	2.500	2.218	2.750	.312	.812	1.900	1.250	1.625
-32D	2.500-16UN	2.750	2.500	3.000	.312	.812	1.900	1.437	1.875

DASH NO.	J DIA $\pm .010$	K $\pm .010$	M $\pm .010$	N $\pm .010$	P $\pm .005$	SCREW TELESCOPING, FIL. (HD.)
-4D	.218	.062	.156	.109	.166	#4-40 UNC-2*
-6D	.281	.062	.175	.125	.166	#4-40 UNC-2*
-8D	.312	.062	.211 $\pm .018$.125	.166	#4-40 UNC-2*
-10D	.312	.062	.218	.125	.166	#4-40 UNC-2*
-12D	.375	.062	.250	.156	.192	#6-32 UNC-2*
-16D	.375	.062	.250	.188	.192	#6-32 UNC-2*
-20D	.475	.078	.312	.188	.217	#8-32 UNC-2*
-24D	.500	.093	.312	.250	.217	#8-32 UNC-2*
-28D	.625	.093	.312	.375	.217	#8-32 UNC-2*
-32D	.675	.125	.312	.375	.217	#8-32 UNC-2*

INCH	mm	INCH	mm	INCH	mm
0.005	0.13	0.350	8.89	1.250	31.75
0.007	0.18	0.375	9.53	1.281	32.54
0.010	0.25	0.422	10.72	1.312	33.32
0.016	0.41	0.437	11.10	1.375	34.93
0.018	0.46	0.468	11.89	1.406	35.71
0.020	0.51	0.475	12.07	1.437	36.50
0.026	0.66	0.500	12.70	1.4375	36.51
0.032	0.81	0.531	13.49	1.531	38.89
0.062	1.57	0.562	14.27	1.593	40.46
0.078	1.98	0.625	15.88	1.625	41.28
0.093	2.36	0.637	16.18	1.688	42.88
0.100	2.54	0.656	16.66	1.703	43.26
0.109	2.77	0.675	17.15	1.750	44.45
0.125	3.18	0.750	19.05	1.875	47.63
0.156	3.96	0.763	19.38	1.900	48.26
0.166	4.22	0.812	20.62	1.906	48.41
0.175	4.44	0.875	22.22	2.000	50.80
0.188	4.78	0.937	23.80	2.093	53.16
0.192	4.88	0.942	23.93	2.218	56.34
0.211	5.36	0.964	24.49	2.250	57.15
0.217	5.51	1.000	25.40	2.343	59.51
0.218	5.54	1.031	26.19	2.500	63.50
0.250	6.35	1.125	28.58	2.750	69.85
0.281	7.14	1.130	28.70	3.000	76.20
0.312	7.92	1.1875	30.16		

REQUIREMENTS:

1. DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.

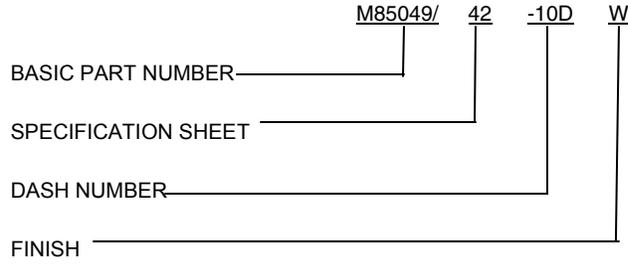
2. MATERIAL AND FINISH:

- a. ACCESSORY COMPONENTS SHALL BE AS SHOWN IN TABLE 2.
- b. CLAMP ASSEMBLY SCREWS SHALL BE CORROSION RESISTANT STEEL IN ACCORDANCE WITH AS85049.

3. QUALIFICATION:

- a. SEE AS85049, CATEGORY 4A.
- b. FOR THE STAINLESS STEEL CLAMP THE DIMENSIONS F, G, J, K, M, N, P AND $.656 \pm .010$ SHALL BE OPTIONAL, BUT SHALL NOT EXCEED THE DIMENSIONS LISTED IN TABLE 1.
- c. QUALIFICATION IS REQUIRED FOR U.S. GOVERNMENT PROCUREMENT. THE QPL EVALUATING ACTIVITY, FOR U.S. DEPARTMENT OF DEFENSE PROCUREMENT PURPOSES, NAVAL AIR SYSTEMS COMMAND (CODE 4.4.4.3), 22229 ELMER ROAD, BUILDING 2360, PATUXENT RIVER, MD 20670-1900.

4. PART NUMBER: SEE EXAMPLE BELOW:



5. SUPERSESSION DATA:

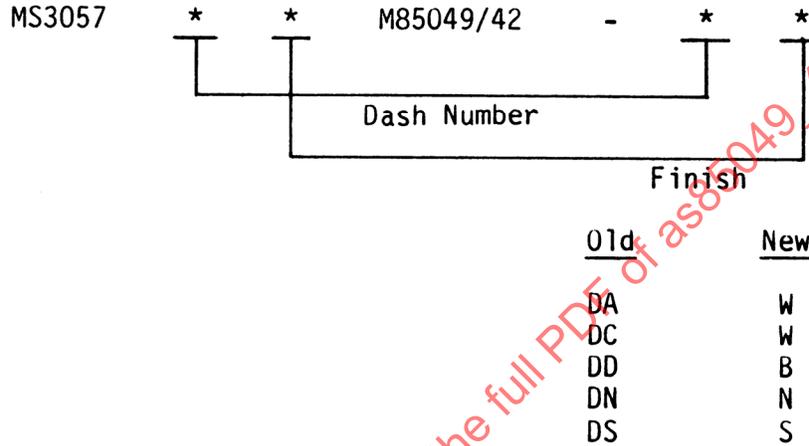


TABLE 2 - MATERIAL AND FINISH

COMPONENT	MATERIAL	FINISH
BODY	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	1/ N, 2/ W
BODY	CORROSION RESISTANT STEEL IN ACCORDANCE WITH AS85049	B, S

1/ NOT FOR NAVY USE. RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.
2/ W FINISH IS NOT FOR USE IN SPACE APPLICATION.