

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

REV.
A

AS85049/39

FEDERAL SUPPLY CLASS
5935

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

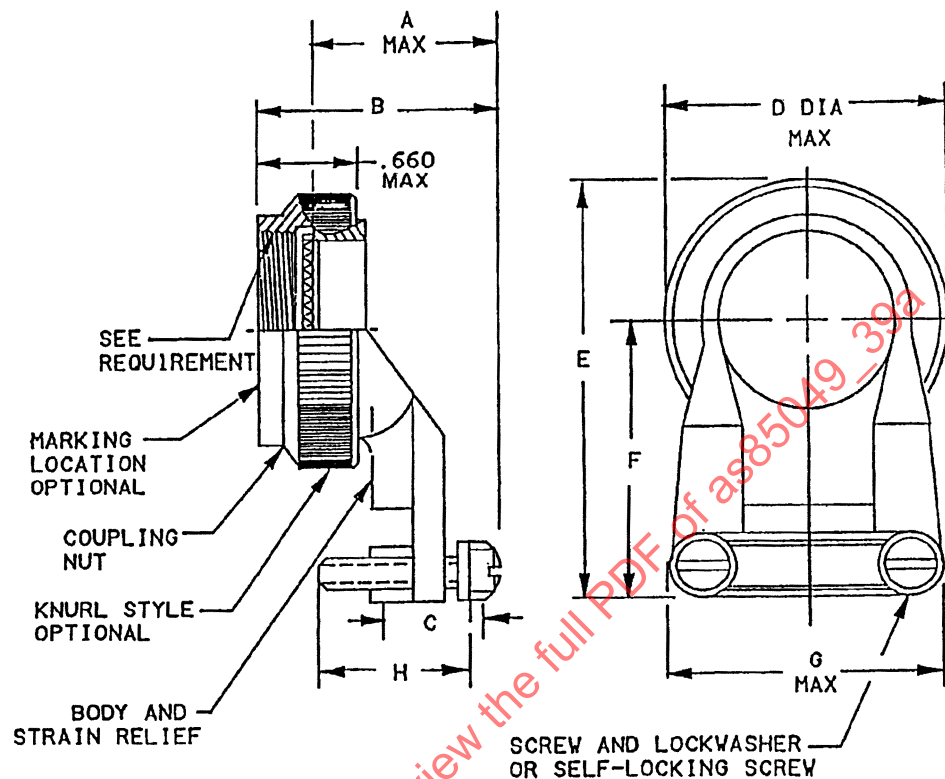
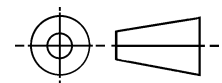


FIGURE 1 - DIMENSION AND CONFIGURATION (SELF-LOCKING ONLY)

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group

(R)

AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,
STRAIN RELIEF, 90°, SELF-LOCKING AND
NON-SELF-LOCKING, CATEGORY 4C
(FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

AS85049/39
SHEET 1 OF 7

**REV.
A**

Copyright 2003 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: custsvc@sae.org

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

ISSUED 2000-05 REVISED 2003-06

Shell sizes and dimensions

Connector shell size	Shell size code (REF)	A max	B max overall length	C wire bundle accommodation range See Note 5		D max dia	E max	F max size	G max	H screw length	Screw size
				Min	Max						
9	A	1.01 (25.7)	1.31 (33.3)	.098 (2.49)	.234 (5.94)	.658 (21.79)	1.38 (35.1)	1.00 (25.4)	.85 (21.6)	.500 (12.70)	6-32
11	B	1.01 (25.7)	1.31 (33.3)	.153 (3.87)	.234 (5.94)	.984 (24.99)	1.53 (38.9)	1.10 (27.9)	.90 (22.9)	.500 (12.70)	6-32
13	C	1.21 (30.7)	1.51 (38.4)	.190 (4.83)	.328 (8.33)	1.157 (29.39)	1.60 (40.6)	1.10 (27.9)	1.10 (27.9)	.625 (15.86)	6-32
15	D	1.26 (32.0)	1.55 (39.4)	.260 (6.60)	.457 (11.61)	1.279 (32.45)	1.80 (45.7)	1.25 (31.6)	1.15 (29.2)	.750 (19.05)	6-32
17	E	1.41 (35.8)	1.71 (43.4)	.283 (7.19)	.614 (15.60)	1.406 (35.71)	1.93 (49.0)	1.30 (33.0)	1.30 (33.0)	.750 (19.05)	6-32

FIGURE 1 - DIMENSIONS AND CONFIGURATIONS (SELF-LOCKING ONLY) - CONTINUED

Shell sizes and dimensions

Connector shell size	Shell size code (REF)	A max	B max overall length	C wire bundle accommodation range		D max dia	E max	F max size	G max	H screw length	Screw size
				Min	Max						
19	F	1.51 (38.4)	1.81 (46.0)	.325 (8.26)	.634 (16.10)	1.516 (38.50)	2.05 (52.1)	1.35 (34.3)	1.50 (38.1)	.750 (19.05)	8-32
21	G	1.66 (42.2)	1.95 (49.5)	.343 (8.71)	.698 (17.73)	1.642 (41.70)	2.35 (59.7)	1.60 (40.6)	1.60 (40.6)	.875 (22.23)	8-32
23	H	1.76 (44.7)	2.10 (53.3)	.381 (9.68)	.823 (20.90)	1.768 (44.91)	2.58 (65.5)	1.75 (44.5)	1.70 (43.2)	1.000 (25.40)	8-32
25	J	1.91 (48.5)	2.21 (56.1)	.418 (10.62)	.853 (21.66)	1.889 (47.98)	2.73 (69.3)	1.85 (49.5)	1.80 (45.7)	1.125 (28.58)	8-32

NOTES:

1. Dimensions are in inches.
2. Dimensions apply after plating.
3. Metric equivalents are given for general information only.
4. Millimeters are in parentheses.
5. Wire bundle accommodation range is defined as the envelope area of the wire bundle. This dimension is not meant to define the clamp hardware limits.

FIGURE 1 - DIMENSIONS AND CONFIGURATIONS (SELF-LOCKING ONLY) - CONTINUED

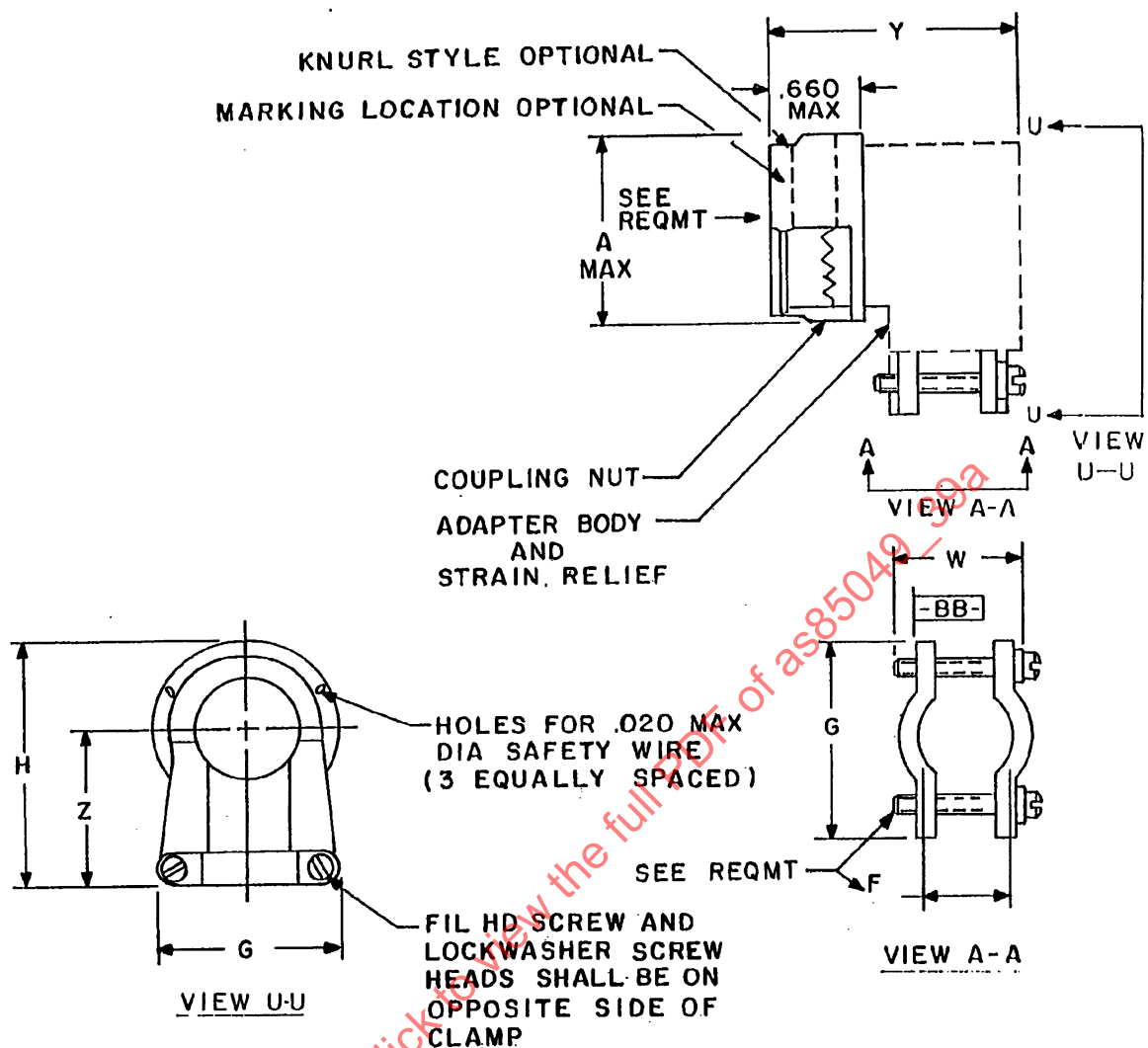


FIGURE 2 - DIMENSIONS AND CONFIGURATIONS (NON-SELF-LOCKING ONLY)

Shell size	A max dia of coupling ring	F wire bundle accommodation range		G max	Screw size	Y max	Z max	W +.000 -.062 screw length	H max
		Min	Max						
9	.75 (19.1)	.098 (2.49)	.234 (5.94)	.85 (21.6)	6-32	1.20 (30.5)	1.00 (25.4)	.500 (12.70)	1.38 (35.1)
11	.85 (21.6)	.153 (3.87)	.234 (5.94)	.90 (22.9)	6-32	1.20 (30.5)	1.10 (27.9)	.500 (12.70)	1.53 (38.9)
13	1.00 (25.4)	.190 (4.83)	.328 (8.33)	1.10 (27.9)	6-32	1.40 (35.6)	1.10 (27.9)	.625 (15.88)	1.60 (40.6)
15	1.10 (27.9)	.260 (6.60)	.457 (11.61)	1.15 (29.2)	6-32	1.45 (36.8)	1.25 (31.8)	.750 (19.05)	1.80 (45.7)
17	1.25 (31.8)	.283 (7.19)	.614 (15.60)	1.30 (33.0)	6-32	1.60 (40.6)	1.30 (33.02)	.750 (19.05)	1.93 (49.0)
19	1.40 (35.6)	.325 (8.26)	.634 (16.10)	1.50 (38.1)	8-32	1.70 (43.2)	1.35 (34.3)	.750 (19.05)	2.05 (52.1)
21	1.50 (38.1)	.343 (8.71)	.698 (17.73)	1.60 (40.6)	8-32	1.85 (47.0)	1.60 (40.6)	.875 (22.23)	2.35 (59.7)
23	1.65 (41.9)	.381 (9.68)	.823 (20.90)	1.70 (43.2)	8-32	1.95 (49.5)	1.75 (44.5)	1.000 (25.40)	2.58 (65.5)
25	1.75 (44.5)	.418 (10.62)	.853 (21.67)	1.80 (45.7)	8-32	2.10 (53.3)	1.85 (47.0)	1.125 (28.58)	2.73 (69.3)

NOTES:

1. Dimensions are in inches.
2. Dimensions apply after plating.
3. Metric equivalents are given for general information only.
4. Millimeters are in parentheses.

FIGURE 2 - DIMENSIONS AND CONFIGURATIONS (NON-SELF-LOCKING ONLY) - CONTINUED