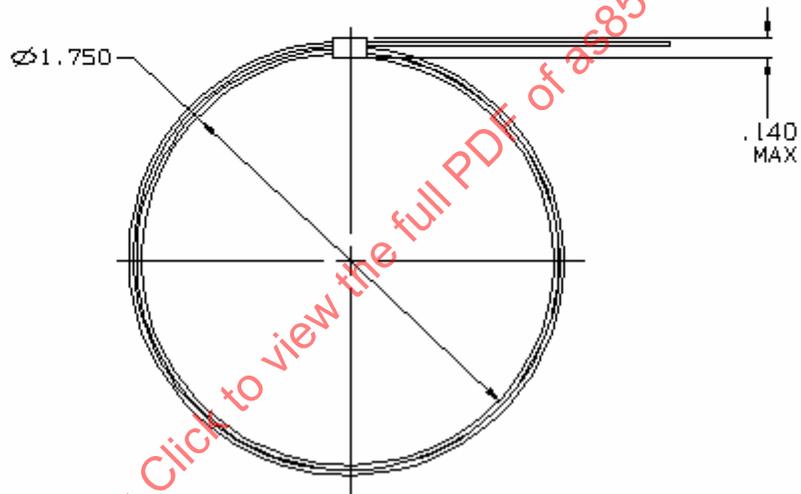
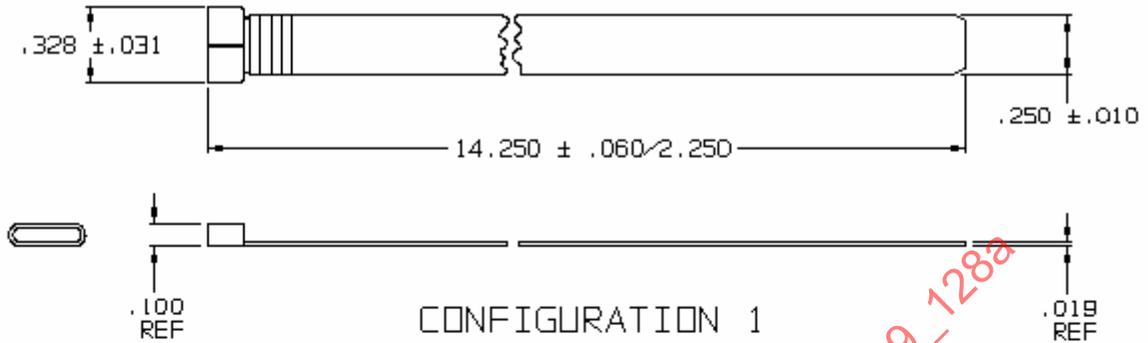


REV.  
A

AS85049/128

FEDERAL SUPPLY CLASS  
5935

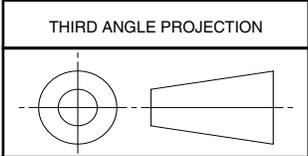
THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF SAE AS85049.



CONFIGURATION 2 - PRE COILED

FIGURE 1 - CONFIGURATION AND DIMENSIONS

SAENORM.COM : Click to view the full PDF of as85049\_128a



CUSTODIAN: SAE AE-8/AE-8C1

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

CONNECTOR ACCESSORIES, ELECTRICAL BACKSHELL,  
SHIELD BAND, CATEGORY 7  
(FOR AS85049/82 - /90, /93, /109 - /117 ACCESSORIES)

**AS85049/128**  
SHEET 1 OF 4

**REV.  
A**

Copyright 2004 SAE International

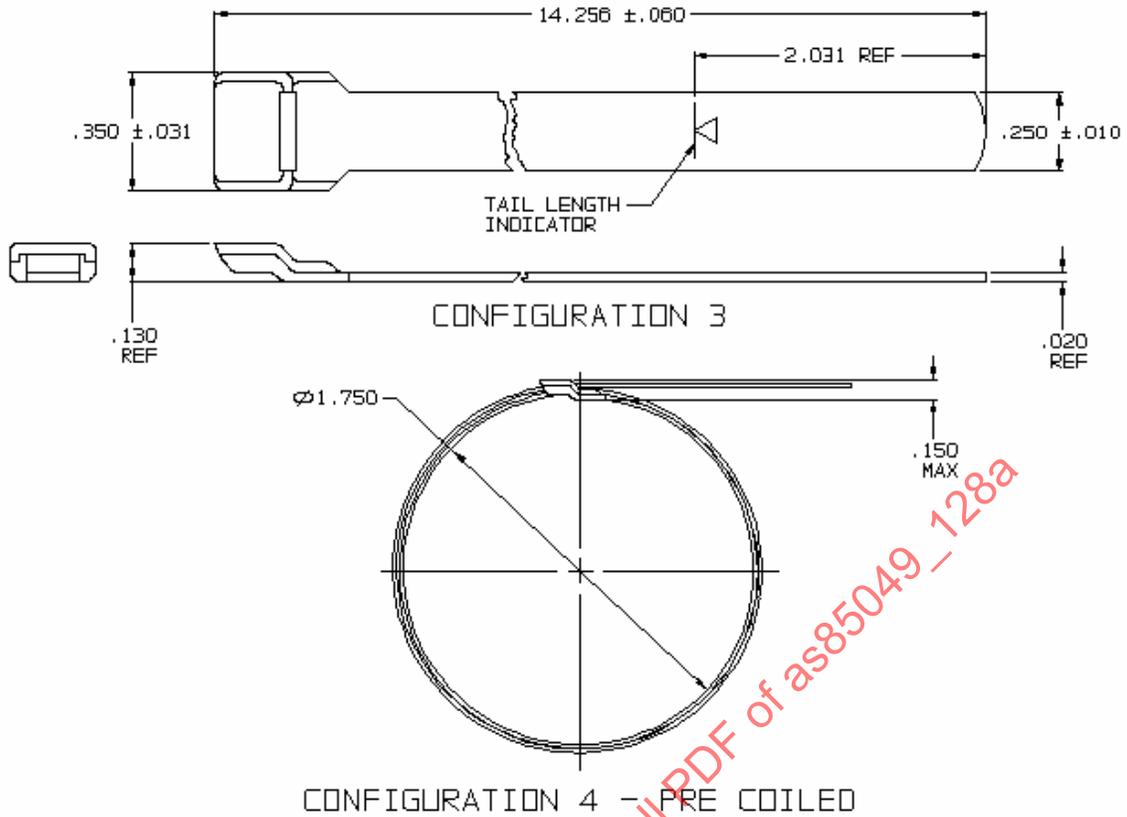
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

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](mailto:custsvc@sae.org)

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

ISSUED 2003-06 REVISED 2004-11



CONFIGURATION 4 - PRE COILED

FIGURE 2 - CONFIGURATION AND DIMENSIONS

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.044	1.12	.562	14.27	.829	21.06	1.157	29.39
.130	3.30	.583	14.81	.858	21.79	1.279	32.49
.140	3.56	.625	15.88	.895	22.73	1.350	34.29
.250	6.35	.684	17.37	.938	23.83	1.406	35.71
.312	7.92	.707	17.96	.957	24.30	1.516	38.51
.395	10.03	.730	18.54	.984	24.99	1.642	41.71
.438	11.13	.750	19.05	1.000	25.40	1.768	44.91
.457	11.61	.770	19.56	1.083	27.51	1.889	47.98
.500	12.70	.812	20.62	1.145	29.08	1.919	48.74

NOTES:

1. THE INSTALLATION BAND SHALL BE PRE-COILED (DOUBLE WRAPPED) AND PROVIDED AS SHOWN. DIMENSIONS OF THE PRE-COILED VERSION (-2, -4) SHALL BE THE SAME AS THE UNCOILED VERSION (-1, -3) RESPECTIVELY. THE PRE-COILED VERSION PROVIDES THE INSTALLATION HEIGHT OF THE BAND.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.000 INCH (25.40 MM).
3. DIMENSIONS ARE IN INCHES.
4. A BAND OVER 12 INCHES LONG MAY BE A TWO PIECE WELDED CONSTRUCTION.
5. BANDS TO BE BULK PACKAGED AND IDENTIFIED PER MIL-STD-1285, BAG AND TAG (INDIVIDUAL BAND IDENTIFICATION AT MANUFACTURER'S OPTION).

## REQUIREMENTS:

1. QUALIFICATION: AS85049 CATEGORY 7 AND HERE-IN.
2. DIMENSION AND CONFIGURATION: FIGURE 1 AND FIGURE 2
3. MATERIAL AND FINISH: BAND SHALL BE CORROSION RESISTANT STEEL AS SPECIFIED IN ASTM A 167 (SERIES 300), OR ASTM A 240/A2 40M, AND PASSIVATED IN ACCORDANCE WITH AMS-QQ-P-35 OR ASTM A967.
4. TOOL: TOOL USED TO ATTACH THE BAND TO A CONNECTOR ACCESSORY SHALL BE THE BAND MANUFACTURERS RECOMMENDED TOOL OR EQUIVALENT.
5. INSTALLATION TEST: INSTALL TWO UNCOILED BANDS WITH THE MANUFACTURER'S RECOMMENDED TOOL AS FOLLOWS:
  - a. SLIDE THE END OF BAND THROUGH A 0.021-INCH, SLOTTED FIXTURE. MOUNT THE FIXTURE TO A FORCE GAGE. APPLY A 210-POUND, LINEAR FORCE ON THE BUCKLE BY PULLING ON THE END OF THE BAND. THE BAND BUCKLE SHALL NOT FAIL OR BECOME DAMAGED.
  - b. ATTACH THE MANUFACTURER RECOMMENDED TOOL TO THE END OF THE BAND. MEASURE THE TOOL'S LINEAR PULL FORCE ON THE BAND. THE FORCE SHALL BE 138 POUNDS MINIMUM TO 160 POUNDS MAXIMUM.
  - c. MOUNT THE BAND ON A 0.20-INCH MANDREL. SLIDE THE BAND THROUGH THE BUCKLE TWO TIMES WHILE PULLING ON THE END WITH A FORCE GAGE. THE FORCE REQUIRED TO SLIDE THE BAND THROUGH THE BUCKLE SHALL NOT EXCEED 7 POUNDS.
  - d. SECURE THE BAND TO A 0.25-INCH MANDREL WITH THE RECOMMENDED TOOL IN ACCORDANCE WITH THE MANUFACTURER'S TOOL INSTRUCTIONS.  
  
EXAMINE THE MANDREL FOR VOIDS BETWEEN THE BAND AND THE MANDREL. THERE SHALL BE NO MORE THAN ONE VOID AREA GREATER THAN 0.03 INCHES WHEN TRANSITIONING FROM THE BUCKLE EDGE TO THE MANDREL.
  - e. EXAMINE THE BAND LOCKING MECHANISM. THE END OF THE BAND SHALL BE LOCKED OVER THE BUCKLE WITH AN 45-DEGREE MINIMUM BEND.
6. BAND TERMINATION TEST (CONFIGURATION 2 & 4 ONLY): FOR EACH DASH NUMBER TO BE QUALIFIED, PERFORM THE FOLLOWING TESTS ON TWO STRAP SPECIMENS FOR EACH ACCESSORY SHELL SIZE FOR A TOTAL OF SIX SPECIMENS. A SIX-INCH BRAID SHALL BE CLAMPED BY EACH SPECIMEN TO THE ACCESSORY. THE BRAID SHALL BE TIN COATED COPPER IN ACCORDANCE WITH A-A-59569 WITH A 90% COVERAGE. TWO SPECIMENS EACH SHALL BE CLAMPED TO ANM85049/82-10\*03, M85049/82-18\*03, AND M85049/82-28\*03 ACCESSORY RESPECTIVELY. THE BAND SHALL BE ASSEMBLED TO THE ACCESSORY WITH THE BAND MANUFACTURER RECOMMENDED TOOL.
  - a. BRAID RETENTION: WITH ACCESSORY SUITABLY ASSEMBLED WITH BRAID, PULL THE BRAID AT A RATE OF ONE INCH PER MINUTE TO A FORCE OF 100 POUNDS FOR BRAID .50 INCH AND UNDER AND 150 POUNDS FOR BRAID OVER .50 INCH. THE BRAID SHALL NOT PULL OUT. BAND SLIPPAGE SHALL NOT EXCEED 0.025 INCHES WHEN MEASURED FROM A FIXED POINT ON THE ADAPTER. BRAID BREAKAGE DUE TO TENSILE LOAD WILL NOT BE VIEWED AS A FAILURE.
  - b. THERMAL AGING: THERMALLY EXPOSE THE ACCESSORY TO 150 DEGREES CELSIUS FOR 168 HOURS FOLLOWED BY AN ELECTRICAL RESISTANCE MEASUREMENT AT ROOM TEMPERATURE. THE APPLIED CURRENT SHALL BE 100 MILLI-AMPS  $\pm$  10 MILLI-AMPS AT A MAXIMUM OF 1.50 DC VOLTS. THE MEASUREMENT SHALL BE TAKEN FROM A POINT ON THE BRAID, WITHIN 1.0+0.00/-0.50 INCH BEYOND THE END OF THE ADAPTER, AND A POINT ON THE ADAPTER AT THE OPPOSITE SIDE OF THE BAND. THE ELECTRICAL RESISTANCE SHALL NOT EXCEED 1.0 MILLI-OHM.