

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**  
**AS33681**

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS  
 5975

**NOTICE**

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS3368F AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS3368F. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

ANY MATERIAL RELATING TO QUALIFIED PRODUCT LISTS HAS NOT BEEN ADOPTED BY SAE. THIS MATERIAL WAS PART OF THE ORIGINAL MILITARY SPECIFICATION AND IS REPRINTED HERE FOR HISTORIC REFERENCE ONLY.

SAENORM.COM : Click to view the full PDF of as33681a

ISSUED 1997-08 REVISED 1998-04

PREPARED BY COMMITTEE AE-8A

PROCUREMENT SPECIFICATION: MIL-S-23190



**AEROSPACE STANDARD**

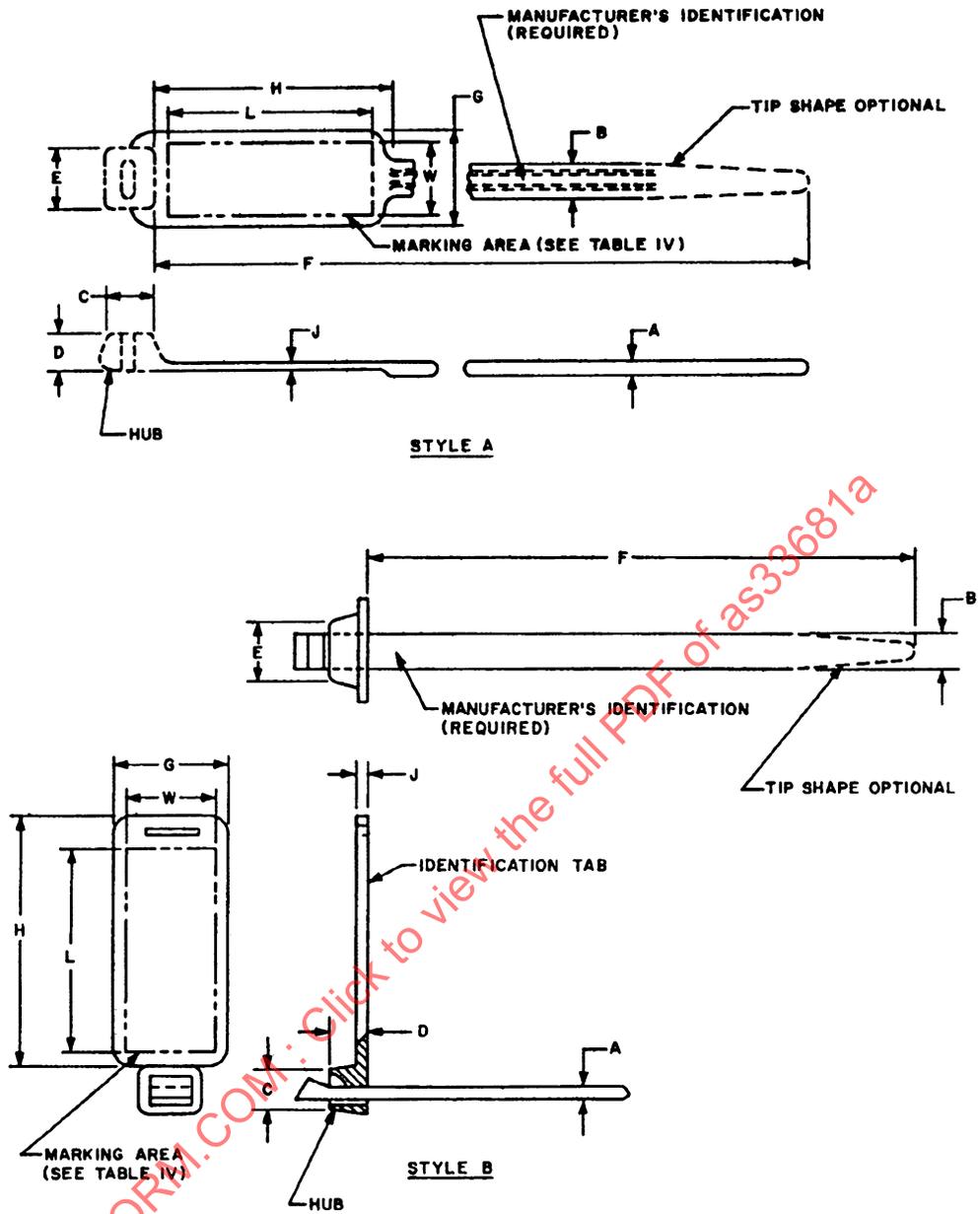
STRAP, TIEDOWN, ELECTRICAL COMPONENTS, IDENTIFICATION, ADJUSTABLE, SELF-CLINCHING, PLASTIC, TYPE II, CLASS 1

**AS33681**  
 SHEET 1 OF 6

**REV. A**

REV.  
A

AS33681



**AEROSPACE STANDARD**

STRAP, TIEDOWN, ELECTRICAL COMPONENTS,  
IDENTIFICATION, ADJUSTABLE, SELF-CLINCHING,  
PLASTIC, TYPE II, CLASS 1

**AS33681**  
SHEET 2 OF 6

**REV.**  
**A**

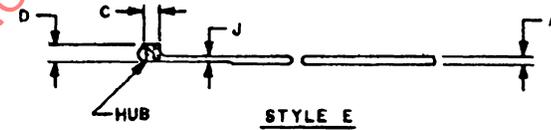
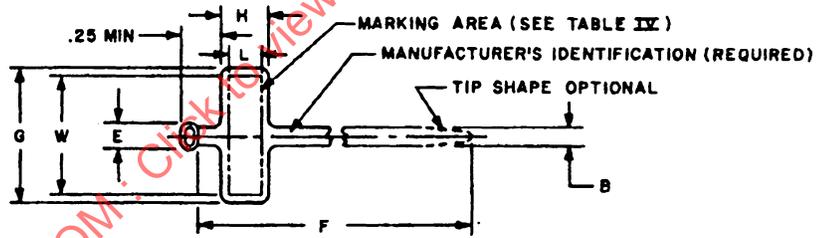
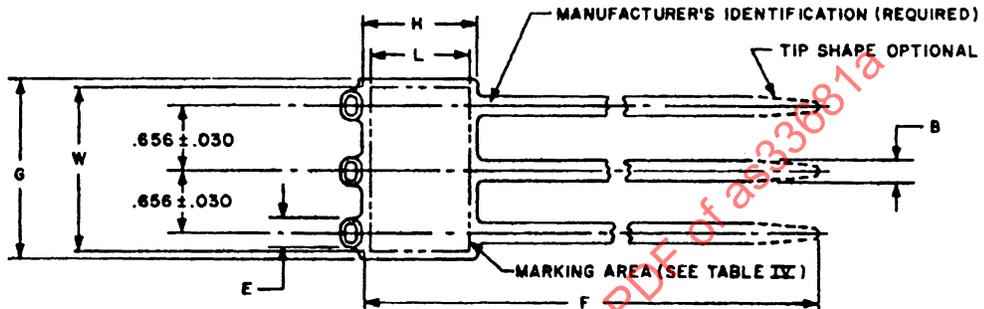
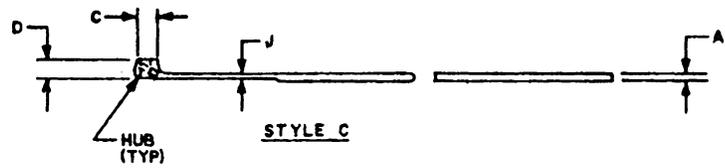
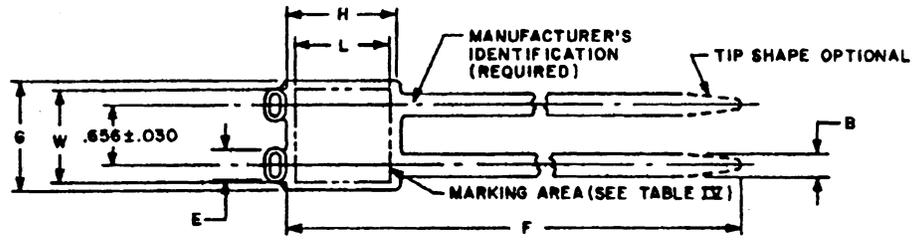


TABLE I  
STYLE A, B, C, D & E

| DASH NUMBER | STYLE | BUNDLE DIA. INCH |       | A MAX | B MAX | C MAX | D MAX | E MAX | F MIN | G MIN | H MAX       | J MAX | MIN. TENSILE STRENGTH LB. | STRAP IDENTIFICATION CODE SEE NOTE 11 | MS INSTAL- LATION TOOL | TOOL TENSION SETTING RANGE SEE NOTES 7 & 12 |
|-------------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|---------------------------|---------------------------------------|------------------------|---|
|             |       | MIN.             | MAX.  |       |       |       |       |       |       |       |             |       |                           |                                       |                        |   |
| -1          | A & B | 3/8 (See Note 4) | 1-3/4 | .055  | .190  | .275  | .240  | .425  | 6.30  | .50   | 1.125<br>1/ | .035  | 50                        | STD (Standard)                        | MS90387-1              | 6 to 8                                      |
| -2          | A & B | 3/4 (See Note 4) | A     | .055  | .190  | .275  | .240  | .425  | 13.35 | .50   | 2.312       | .048  | 50                        | STD (Standard)                        | MS90387-1              | 6 to 8                                      |
| -3          | C     | 3/8              | 1-3/4 | .055  | .190  | .275  | .240  | .425  | 6.30  | 1.12  | 1.125       | .035  | 50 (See Note 8)           | STD (Standard)                        | MS90387-1              | 6 to 8                                      |
| -4          | D     | 3/8              | 1-3/4 | .055  | .190  | .275  | .240  | .425  | 6.30  | 1.78  | 1.125       | .035  | 50 (See Note 8)           | STD (Standard)                        | MS90387-1              | 6 to 8                                      |
| -5          | E     | 3/16             | 5/8   | .046  | .100  | .175  | .170  | .200  | 2.72  | .96   | .34         | .035  | 18                        | MIN (Miniature)                       | MS90387-1              | 1 to 3                                      |

1/ FOR DASH 1, STYLE B, THE "H" DIMENSION SHALL BE 1.187 MAX IN LIEU OF 1.125.

TABLE II

| COLOR DASH NO. | COLOR    | COLOR DASH NO. | COLOR   |
|----------------|----------|----------------|---------|
| -0             | BLACK 2/ | -5             | GREEN   |
| -1             | BROWN    | -6             | BLUE    |
| -2             | RED      | -7             | PURPLE  |
| -3             | ORANGE   | -8             | GRAY    |
| -4             | YELLOW   | -9             | NATURAL |

2/ SEE REQUIREMENTS: 1. (c) (1)

TABLE III

| SUPERSESSON BY PART NUMBER |           |           |
|----------------------------|-----------|-----------|
| PART NO.                   | PART NO.  | PART NO.  |
| MS3368-1                   | MS17822-1 | MS18035-1 |
| MS3368-2                   | MS17822-2 | MS18035-2 |
| MS3368-3                   | -----     | MS18035-3 |
| MS3368-4                   | -----     | MS18035-4 |
| MS3368-5                   | -----     | MS18035-5 |

TABLE IV

| DASH NO. | STYLE | MARKING AREA |        |
|----------|-------|--------------|--------|
|          |       | L MIN.       | W MIN. |
| 1        | A     | .85          | .41    |
| 1        | B     | .96          | .42    |
| 2        | A     | 1.93         | .41    |
| 2        | B     | .96          | .42    |
| 3        | C     | .87          | 1.07   |
| 4        | D     | .87          | 1.75   |
| 5        | E     | .24          | .91    |