

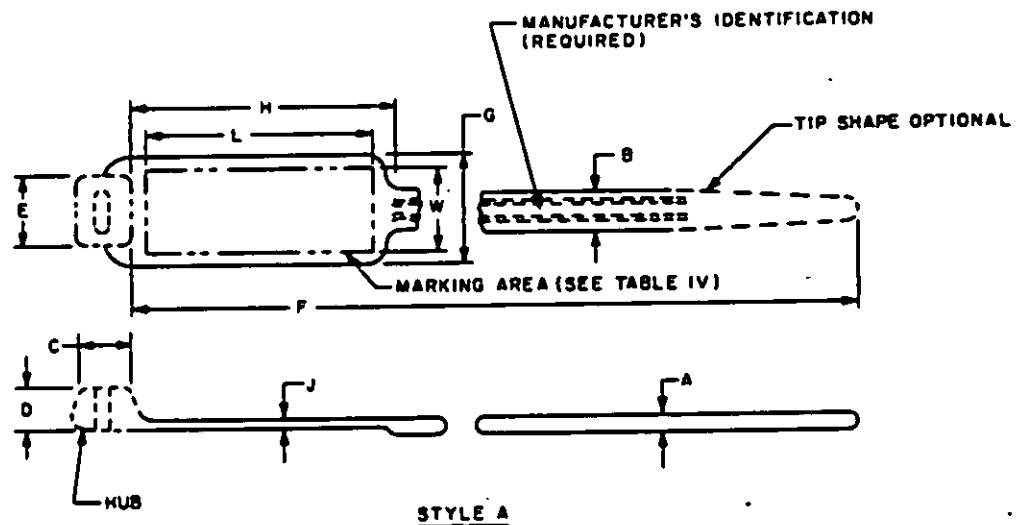
FED. SUP CLASS  
5975

USE SYMBOLS:  
ARMY -  
NAVY - SH, NS  
USAF - 1)

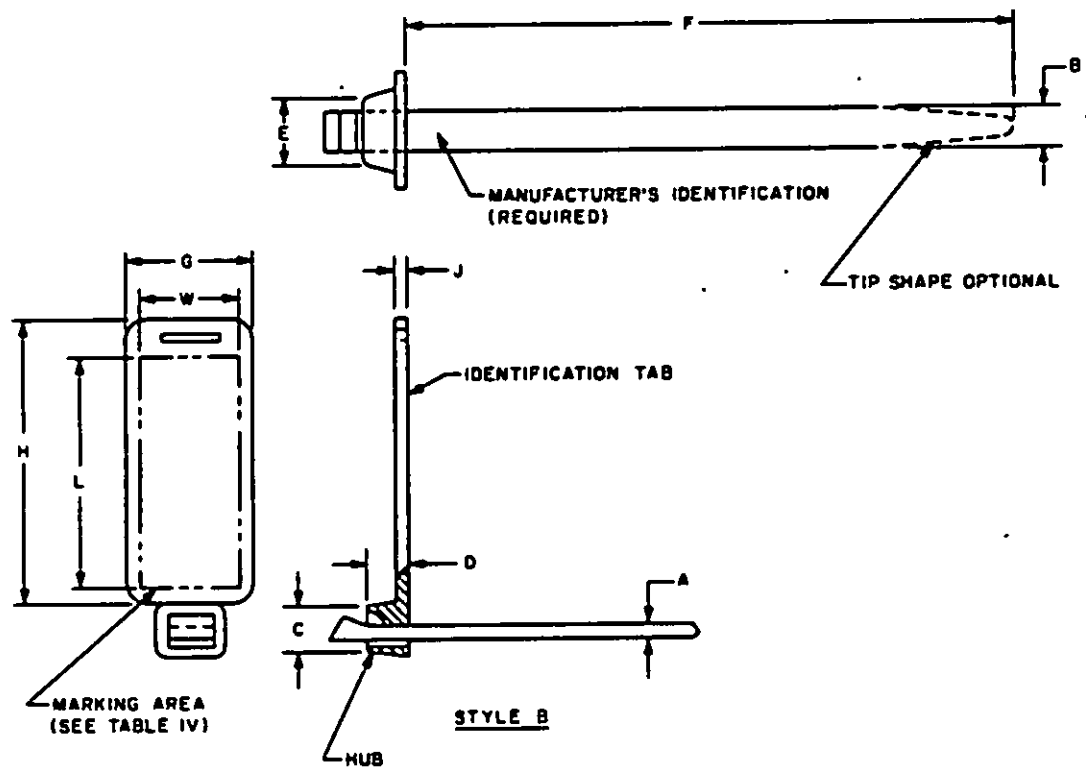
REVIEW SYMBOLS:  
ARMY - AV, M1, EL  
NAVY - EC  
USAF - 99

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This military standard is approved for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for replacing old shall be made from this document.



STYLE A



STYLE B

Ⓕ ENTIRE STANDARD REVISED

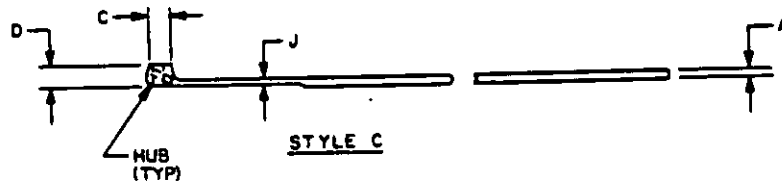
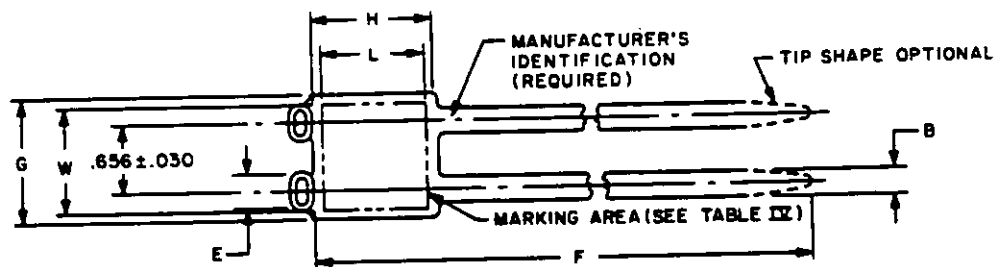
P.A. NAVY - AS Other Code  USAF-85 ARMY-EL	TITLE STRAP, TIEDOWN, ELECTRICAL COMPONENTS, IDENTIFICATION, ADJUSTABLE, SELF-CLINCHING, PLASTIC, TYPE II, CLASS I	MILITARY STANDARD <b>MS3368</b>
PROCUREMENT SPECIFICATION MIL-S-23190	SUPERSEDES MS17822 AND MS18035	SHEET 1 OF 5

DD FORM 672-1 (Coordinated)

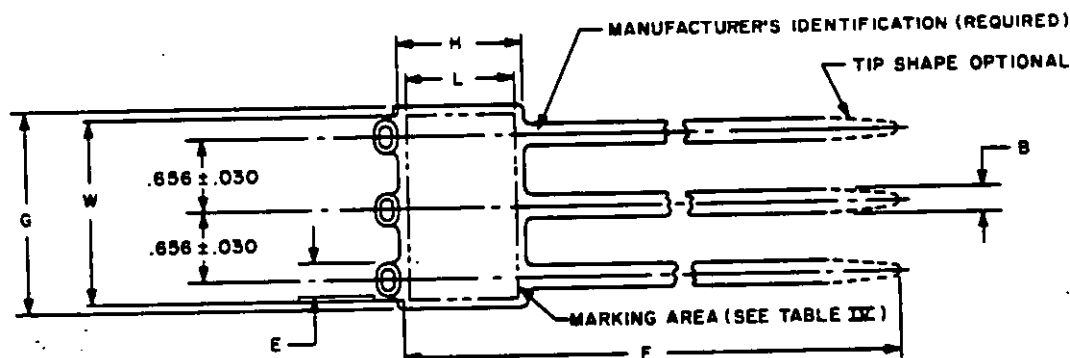
PREVIOUS EDITIONS OF THIS FORM AND SYMBOLS (PROJECT NO. 5975-0548)

PLATE NO. 2386

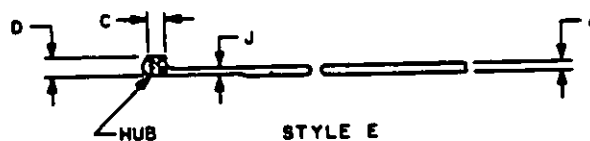
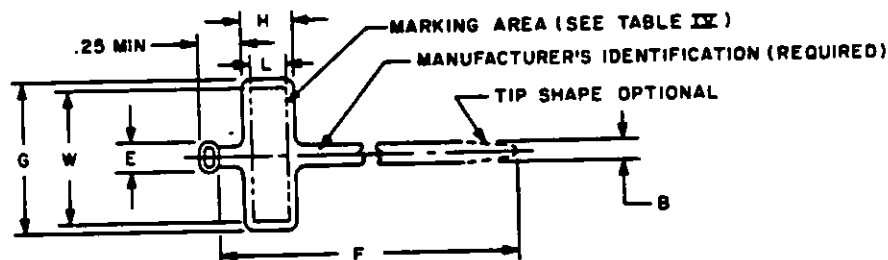
APPROVED 10 JULY 1969 REVISED 16 AUGUST 1978

FED. SUP CLASS  
5975

STYLE C



STYLE D



STYLE E

APPROVED 10 JULY 1989 REVISED (F) FOR CHANGES SEE SHEETS 1 THRU 5

P.A. NAVY - AS Other Cust  USAF - 85 ARMY - EL	TITLE  STRAP, TIEDOWN, ELECTRICAL COMPONENTS, IDENTIFICATION, ADJUSTABLE, SELF-CLINCHING, PLASTIC, TYPE II, CLASS I	MILITARY STANDARD  <b>MS3368</b>
PROCUREMENT SPECIFICATION MIL-S-23190	SUPERSEDES MS17822 AND MS18035	SHEET 2 OF 5

DD FORM 1 MAR 77 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO 2284

REVISION SYMBOLS:  
ARMY - SH, NS  
NAVY - SH, NS  
USAF - 17

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engineering and design applications and for replacement use shall  
be made from this document.

FED. SUP CLASS  
5975

TABLE I

STYLE A, B, C, D &amp; E

DASH NUMBER	STYLE	BUNDLE DIA. INCH		A	B	C	D	E	F	G	H	J	MIN. TENSILE STRENGTH LB.	STRAP IDENTIFICATION CODE SEE NOTE 11	MS INSTALLATION TOOL	TOOL TENSION SETTING RANGE SEE NOTES 7 & 12
		MIN.	MAX.	MAX	MAX	MAX	MAX	MAX	MIN	MIN	MAX	MAX				
-1	A & B	3/8 (See Note 4)	1-3/4	.035	.190	.275	.240	.425	6.30	.50	1.125 1/	.035	50	STD (Standard)	MS90387-1	6 to 8
-2	A & B	3/4 (See Note 4)	4	.035	.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	.035	.190	.275	.240	.425	6.30	1.12	1.125	.035	50 (See Note 4)	STD (Standard)	MS90387-1	6 to 8
-4	D	3/8	1-3/4	.035	.190	.275	.240	.425	6.30	1.78	1.125	.035	50 (See Note 6)	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

SUPERSESION 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

P.A.  
NAVY-AS  
Other CodeUSAF-85  
ARMY-ELPROCUREMENT SPECIFICATION  
MIL-S-23190

TITLE

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

SUPERSEDES

MS17822 AND MS18035

MILITARY STANDARD

MS3368

SHEET 3 OF 5

USER SYMBOLS:  
ARMY - SH, OS  
NAVY - SH, OS  
USAF - 17REVIEWER SYMBOLS:  
ARMY - AV, MI, EL  
NAVY - EC  
USAF - 99

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DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 2285

APPROVED 10 JULY 1989 REVISED 7 FOR CHANGES SEE SHEETS 1 THRU 5

FED. SUP CLASS  
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INCH	MM	INCH	MM	INCH	MM	INCH	MM
.030	0.76	.190	4.83	.500	12.70	1.125	28.58
.035	0.89	.200	5.08	.625	15.88	1.187	30.13
.046	1.17	.24	6.10	.656	16.66	1.750	44.45
.048	1.22	.25	6.35	.750	19.05	1.780	45.21
.055	1.40	.275	6.99	.850	21.59	1.930	49.02
.0625	1.59	.34	8.64	.870	22.10	2.312	58.72
.100	2.54	.375	9.53	.910	23.11	2.720	69.09
.170	4.32	.41	10.41	.960	24.38	4.000	101.60
.175	4.45	.42	10.67	1.070	27.18	6.300	160.02
.1875	4.76	.425	10.80	1.120	28.45	13.350	339.09

**REQUIREMENTS:**

1. MATERIAL: (a) STRAP: NYLON, PER MIL-M-20693, TYPE I, OR TYPE III, EXCEPT FOR BLACK WHICH SHALL BE TYPE II (WEATHER RESISTANT).
  - (b) STRAP LOCK: (1) METAL TYPE PER QQ-S-766, CLASS 301 AND 302 (SEE NOTE 5).
    - (2) PLASTIC TYPE PER MIL-M-20693, TYPE I EXCEPT FOR BLACK WHICH SHALL BE TYPE II (WEATHER RESISTANT) (SEE NOTE 5).
  - (c) COLOR: (1) COLORS IN ACCORDANCE WITH MIL-STD-104, EXCEPT NATURAL AND BLACK.
    - (2) A CONTRASTING COLOR SHALL BE USED WHEN MARKING IDENTIFICATION CABLE STRAP IN "MARKING" AREA.

**NOTES:**

1. DIMENSIONS ARE IN INCHES.
2. STRAPS SHALL HAVE NO BURRS, SHARP EDGES OR SHARP CORNERS.
3. METRIC EQUIVALENTS (TO THE NEAREST .01 MM) ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
4. WHEN IDENTIFICATION TAB FOR THE STYLE B DESIGN IS IN THE "FLAG" POSITION, MINIMUM BUNDLE DIAMETER MAY BE 1/16.
5. LOCKING DEVICES OF ANY DESIGN ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS OF THE PROCUREMENT SPECIFICATION. WHEN METAL LOCKING DEVICES ARE USED, THEY MUST BE SECURELY ANCHORED AND SHALL NOT BE EXPOSED OUTSIDE OF THE HUB OR HUBS.
6. THE GOVERNMENT HAS A ROYALTY FREE LICENSE UNDER THE FOLLOWING U.S. PATENT AND U.S. PATENT APPLICATION NUMBERS 3,022,557; 173,866; 3,186,047; FOR THE BENEFIT OF MANUFACTURERS OF THE ITEMS CALLED FOR IN THIS STANDARD EITHER FOR THE GOVERNMENT OR FOR USE IN EQUIPMENT TO BE DELIVERED TO THE GOVERNMENT.
7. TYPE II TIEDOWN STRAPS MAY BE USED ON WIRE BUNDLES CONTAINING SOLID DIELECTRIC COAXIAL CABLES PROVIDED THAT THE TENSION SETTING ON THE MS90387 INSTALLING TOOL IS NOT GREATER THAN THAT REQUIRED TO PREVENT AXIAL SLIPPAGE.
8. MINIMUM TENSILE STRENGTH APPLIES TO EACH LEG OF STRAP.
9. CONTOUR INDICATED BY PHANTOM LINES MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN. SLIGHT MOLDING TAPER IS PERMITTED.
10. EXAMPLE OF PART NUMBER:

MS3368-1-9A

STYLE  
COLOR DASH NO.  
DASH NO.  
BASIC PART NO.

APPROVED 10 JULY 1969 REVISED ⑦ FOR CHANGES SEE SHEETS 1 THRU 5

P.A. NAVY - AS Other Code  USAF - 85 ARMY - EL	TITLE STRAP, TIEDOWN, ELECTRICAL COMPONENTS, IDENTIFICATION, ADJUSTABLE, SELF-CLINCHING, PLASTIC, TYPE II, CLASS I	MILITARY STANDARD <b>MS3368</b>
	PROCUREMENT SPECIFICATION MIL-S-23190	SUPERSEDES MS17822 AND MS18035

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 2284

 REVIEW SYMBOLS:  
 ARMY - AV, MI, EL  
 NAVY - SH, NS  
 USAF - 17  
 USAF - 99

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FED. SUP CLASS  
5975USED SYMBOLS:  
ARMY -  
NAVY - SH, OS  
USAF - 17REVISED SYMBOLS:  
ARMY - AV, MI, EL  
NAVY - EC  
USAF - 99"Notice/Note" information is current as of the date of this document.  
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engineering and design applications and for replacement and shall  
be made from this document.

11. UNIT PACKAGE MARKING - IN ADDITION TO THE PART NUMBER SHOWN IN NOTE 10, THE UNIT PACKAGE SHALL HAVE THE FOLLOWING TYPICAL INFORMATION MARKED ON THE PACKAGE OR CONTAINED WITHIN THE PACKAGE

EXAMPLE

STRAP IDENTIFICATION CODE - STANDARD  
MS INSTALLATION TOOL - 90387-1  
TOOL TENSION SETTING RANGE - 6 TO 8

12. TOOL TENSION SETTING - THE TOOL TENSION SETTING RANGES SPECIFIED IN TABLE 1 ARE FOR TYPICAL WIRE BUNDLE APPLICATIONS. SETTINGS LESS OR GREATER THAN THE RANGES SPECIFIED MAY BE NECESSARY FOR SPECIAL APPLICATIONS.
13. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
14. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.

APPROVED 10 JULY 1969 REVISED (C) FOR CHANGES SEE SHEETS 1 THRU 3

P.A. NAVY - AS Other Code  USAF - 85 ARMY - EL	TITLE  STRAP, TIEDOWN, ELECTRICAL COMPONENTS, IDENTIFICATION, ADJUSTABLE, SELF-CLINCHING, PLASTIC, TYPE II, CLASS I	MILITARY STANDARD  <b>MS3368</b>
PROCUREMENT SPECIFICATION MIL-S-23190	SUPERSEDES MS17822 AND MS18053	SHEET 5 OF 5

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO 2304