

USE SYMBOLS:
ARMY - SR, OS
NAVY - 17
USAF - 17

REVIEWER SYMBOLS:
ARMY - AV, EL, HI
NAVY - EC
USAF - 99

*Reviewer/author information is entered as of the date of this document.
For future coordination of changes to this document, draft discussion
should be based on the information in the current document.

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

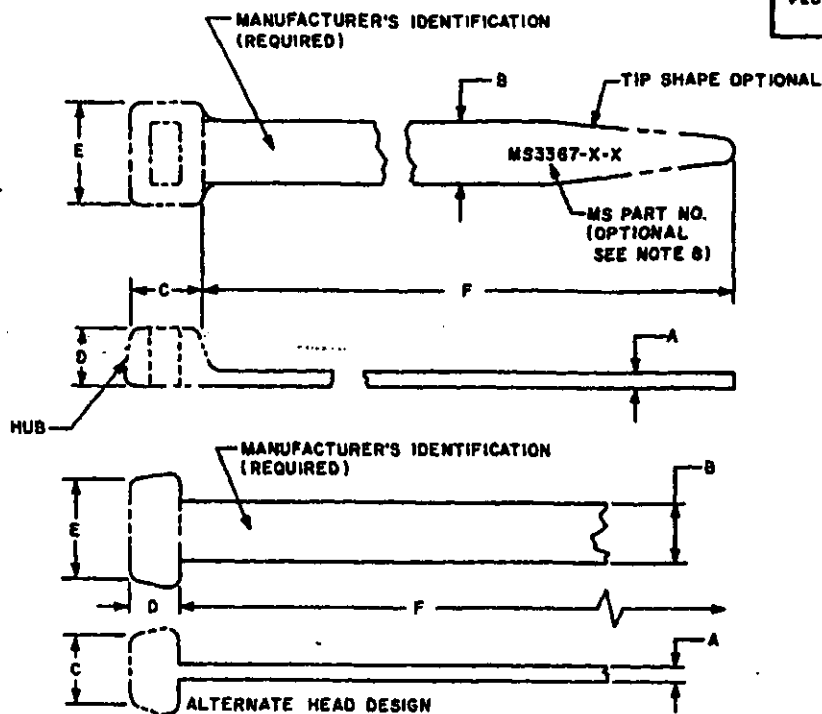


TABLE I

DASH NUMBER	BUNDLE DIA INCH		A MAX	B MAX	C MAX	D MAX	E MAX	F MIN	MIN. TENSILE STRENGTH LB.	STRAP IDENTIFICATION CODE (SEE NOTE 9)	MS INSTALLATION TOOL	TOOL TENSION SETTING RANGE (SEE NOTES 6 AND 10)
	MIN	MAX										
-1	1/16	1-3/4	.055	.190	.275	.240	.320	6.30	50	STD (Standard)	MS90387-1	6 to 8
-2	1/16	4	.055	.192	.275	.240	.365	13.35	50	STD (Standard)	MS90387-1	6 to 8
-3	3/16	3-1/2	.083	.310	.375	.330	.535	12.00	120	HVY (Heavy)	MS90387-2	5 to 8
-4	1/16	5/8	.046	.100	.175	.170	.195	2.72	18	MIN (Miniature)	MS90387-1	1 to 3
-5	1/16	1-1/4	.055	.146	.220	.200	.260	4.68	30	INT (Intermediate)	MS90387-1	3 to 5
-6	3/16	8	.083	.310	.375	.330	.550	26.25	120	HVY (Heavy)	MS90387-2	5 to 8
-7	1/16	3	.055	.192	.275	.240	.365	10.20	50	STD (Standard)	MS90387-1	6 to 8

Ⓔ ENTIRE STANDARD REVISED

P.A. NAVY - AS
Other Civil
USAF - 85
ARMY - EL

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

MILITARY STANDARD

MS3367

PROCUREMENT SPECIFICATION
MIL-S-23190

SUPERSEDES:
MS17821 AND MS18034

SHEET 1 OF 3

DD FORM 17, MAR 72 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE. (PROJECT NO. 5975-0547)

PLATE NO. 2284

APPROVED 10 JULY 1969 REVISED 16 AUGUST 1978

USE SYMBOLS:
ARMY - AH, AS
NAVY - NH, NS
USAF - 17

REVIEWED SYMBOLS:
ARMY - AV, EL, MI
NAVY - EC
USAF - 99

*Specimen information is current as of the date of this document.
For future consideration of changes to this document, draft designation
should be based on the information in the current MSB183.

This military standard is approved for use by all Departments
in support of the Department of Defense. Solicitation for all new
engineering and design applications and for replacement and shall
be made from this document.

INCH	MM	INCH	MM	INCH	MM	INCH	MM
.046	1.17	.192	4.88	.365	9.27	4	101.60
.055	1.40	.195	4.95	.375	9.53	4.68	118.87
.0625	1.59	.200	5.08	.355	9.03	6.30	160.02
.083	2.11	.220	5.59	.350	8.91	8	203.20
.100	2.54	.240	6.10	.625	15.88	10.20	259.08
.146	3.71	.260	6.60	1.25	31.75	12.00	304.80
.170	4.32	.275	6.99	1.75	44.45	13.35	339.09
.175	4.43	.310	7.87	2.72	69.09	26.25	666.75
.1875	4.76	.320	8.13	3	76.20		
.190	4.83	.330	8.38	3.5	88.90		

TABLE II

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

1/ ONLY STRAPS IN NATURAL AND BLACK
COLORS SHALL BE STOCKED BY THE
GOVERNMENT.

TABLE III

SUPERSESSOR BY PART NUMBER		
PART NO.	PART NO.	PART NO. 2/
MS3367	MS17821	MS18034
MS3367-1	MS17821-1	MS18034-1
MS3367-2	MS17821-2	MS18034-2
MS3367-3	MS17821-3	MS18034-3
MS3367-4	MS17821-4	MS18034-4
MS3367-5	-----	MS18034-5
MS3367-6	-----	MS18034-6
MS3367-7	-----	MS18034-7

2/ SUPERSEDED MS18034 COLORED STRAPS WERE
DESIGNATED BY ALPHABETICAL DESIGNATORS IN
LIEU OF NUMERICAL DESIGNATORS AS SHOWN IN
TABLE II.

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 or 302 (SEE NOTE 3).
- (2) PLASTIC, TYPE PER MIL-M-20693, TYPE I, OR TYPE III, EXCEPT FOR BLACK WHICH SHALL BE TYPE II (WEATHER RESISTANT) (SEE NOTE 3).
- (c) COLOR: (1) COLOR SHALL CONFORM TO MIL-STD-104, EXCEPT BLACK AND NATURAL.

NOTES:

1. ALL 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. THE GOVERNMENT HAS A ROYALTY FREE LICENSE UNDER THE FOLLOWING U.S. PATENT AND U.S. PATENT APPLICATION NUMBERS 3,022,357; 3,186,047; 1,73,866; 178,331; 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.
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.
6. TYPE I 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.
7. CONTOUR INDICATED BY PHANTOM LINES MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN. SLIGHT MOLDING TAPER IS PERMITTED.

APPROVED 10 JULY 1969 REVISED 2 FOR CHANGES SEE SHEETS 1, 2 & 3.

P.A. NAVY - AS Other Code	TITLE STRAP, TIEDOWN, ELECTRICAL COMPONENTS, ADJUSTABLE, SELF- CLINCHING, PLASTIC, TYPE I, CLASS I	MILITARY STANDARD	
		MS3367	
USAF - 85 ARMY - EL	PROCURER SPECIFICATION MIL-S-23180	SUPERSEDES MS17821 AND MS18034	SHEET 2 OF 3

USER SYM
ARMY - SM, OS
NAVY - 17
USAF - 17

REVIEWER SYMBOLS
ARMY - AV, EL, HI
NAVY - EC
USAF - 99

"Revision/revision information. At no time of this document. For future identification of changes to this document, draft identification should be based on the information in the current document."

"This standard is approved for use by all Departments of Defense. Approval of this standard is required for all new engineering and design applications and for revision of all existing standards from this standard."

6. EXAMPLE OF PART NUMBER

MS3367-1-3
COLOR DASH NO.
SIZE DASH NO.
BASIC PART NO.

9. UNIT PACKAGE MARKING - IN ADDITION TO THE PART NUMBER SHOWN IN NOTE 8, 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

10. TOOL TENSION SETTINGS - THE TOOL TENSION SETTING RANGES SPECIFIED IN TABLE I ARE FOR TYPICAL WIRE BUNDLE APPLICATIONS. SETTINGS LESS OR GREATER THAN THE RANGES SPECIFIED MAY BE NECESSARY FOR SPECIAL APPLICATIONS.
11. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
12. 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 ② FOR CHANGES SEE SHEETS 1, 2 & 3.

P.A. NAVY-AS Other Com USAF-85 ARMY-EL	TITLE STRAP, TIEDOWN, ELECTRICAL COMPONENTS, ADJUSTABLE, SELF- CLINCHING, PLASTIC, TYPE I, CLASS I	MILITARY STANDARD
		MS3367
PROCUREMENT SPECIFICATION MIL-S-23190	SUPERSEDES MS17821 AND MS18034	SHEET 3 OF 3

DD FORM 672-1 (Coordinated)

PLATE NO. 2286