

USER SYMBOLS:
ARMY - AS
NAVY - SR, OS
USAF - 17

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

*Reviewer information is entered as of the date of this document.
For future consideration of changes to this document, draft annotations
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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 parts
is made from this document.

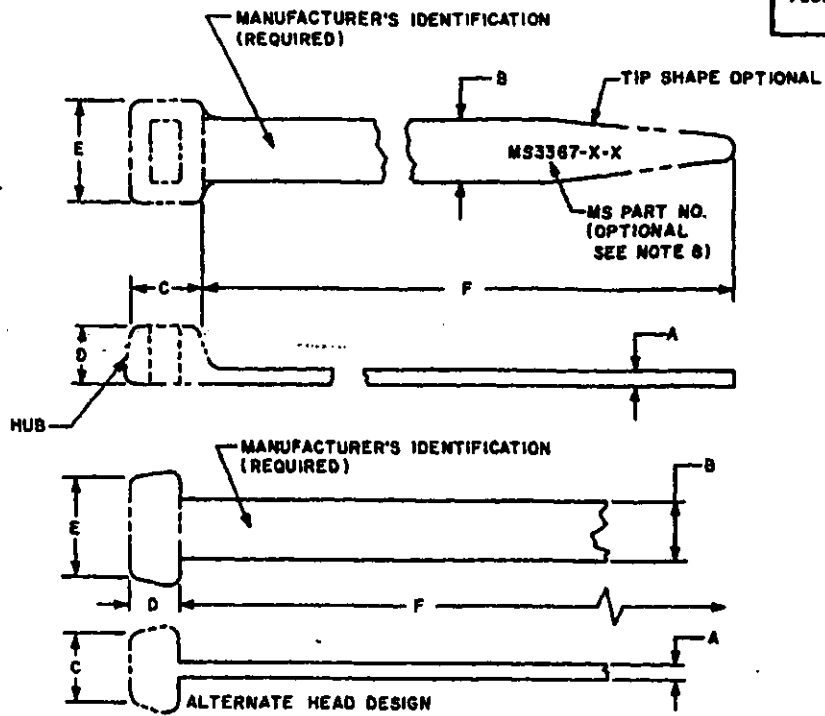


TABLE I

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 Code 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

APPROVED 10 JULY 1969 REVISED 16 AUGUST 1978

USER SYMBOLS:
ARMY - SH, CS
NAVY - 17
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REVIEWED SYMBOLS:
ARMY - AV, EL, MI
NAVY - EC, EC
USAF - 99

*Specimen information is carried on of the end of this document.
For future consideration of changes to this document, draft description
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& Agencies of the Department of Defense. Solicitation for all new
engineering and design applications and for modification 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	.425	10.80	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

SUPERSESION 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-N-20693, TYPE I, OR TYPE III, EXCEPT FOR BLACK WHICH SHALL BE TYPE II (WEATHER RESISTANT).
- (b) STRAP LOCK: (1) METAL, TYPE PER QQ-5-766, CLASS 301 or 302 (SEE NOTE 5).
- (2) PLASTIC, TYPE PER MIL-N-20693, TYPE I, OR TYPE III, EXCEPT FOR BLACK WHICH SHALL BE TYPE II (WEATHER RESISTANT) (SEE NOTE 5).
- (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; 173,866; 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 FOR CHANGES SEE SHEETS 1, 2 & 3.

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

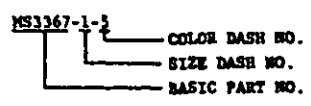
USER SYMB
ARMY - 5H, OS
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USAF - 17

REVIEWER SYMBOLS
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"Revision/feature information. At no time shall the date of this document. For future identification of changes to this document, draft identification should be based on the information in the current DDISS."

"This standard is approved for use by all Departments in agreement with the Department of Defense. Selection for all new engineering and design applications and for revision shall be made from this document"

6. EXAMPLE OF PART NUMBER



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 (P) FOR CHANGES SEE SHEETS 1, 2 & 3.

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