

SAE-AS33671

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SAE-AS33671 should be used for new design instead of MS3367, which was inactivated for new design on August 25, 1998.

Custodians:
 Army - CR
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 (Project 5975-1323)

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PREPARED BY SUBCOMMITTEE AE-8A		PROCUREMENT SPECIFICATION MIL-S-23190	
 <p>SAE The Engineering Society For Advancing Mobility Land Sea Air and Space INTERNATIONAL 400 Commonwealth Drive, Warrendale, PA 15096-0001</p>	AEROSPACE STANDARD		AS33671 SHEET 1 OF 4
	STRAP, TIEDOWN, ELECTRICAL COMPONENTS, ADJUSTABLE, SELF- CLINCHING, PLASTIC, TYPE I, CLASS 1		

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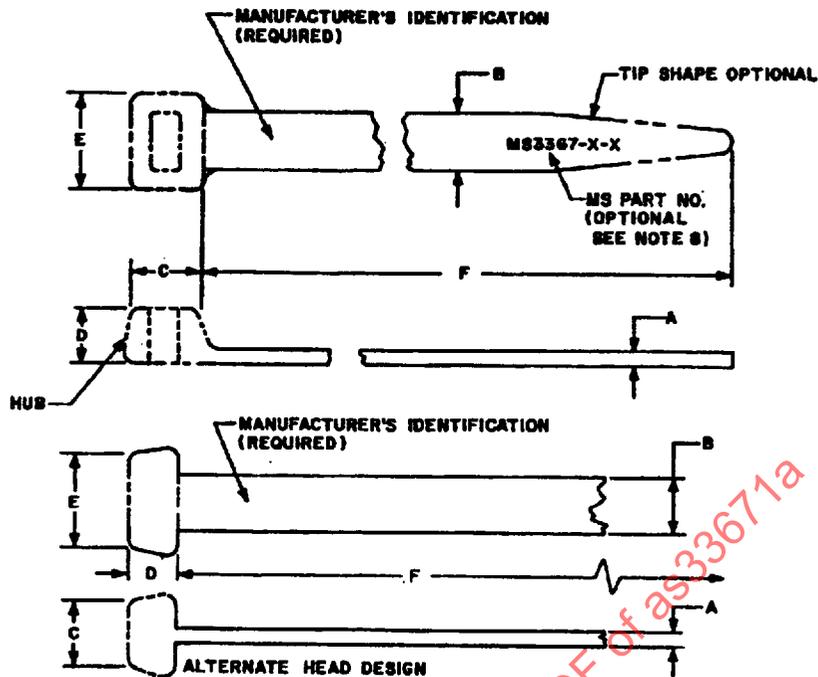


TABLE I

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

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INCH	MM	INCH	MM	INCH	MM	INCH	MM
.046	1.17	.192	4.88	.365	9.27	4	101.60
.053	1.40	.195	4.95	.375	9.53	4.68	118.87
.0625	1.59	.200	5.08	.385	9.78	6.30	160.02
.083	2.11	.220	5.59	.390	9.91	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	4.45	.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-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 5).
(2) PLASTIC, TYPE PER MIL-M-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 3,022,557; 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.