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REV.
E

AS33671™

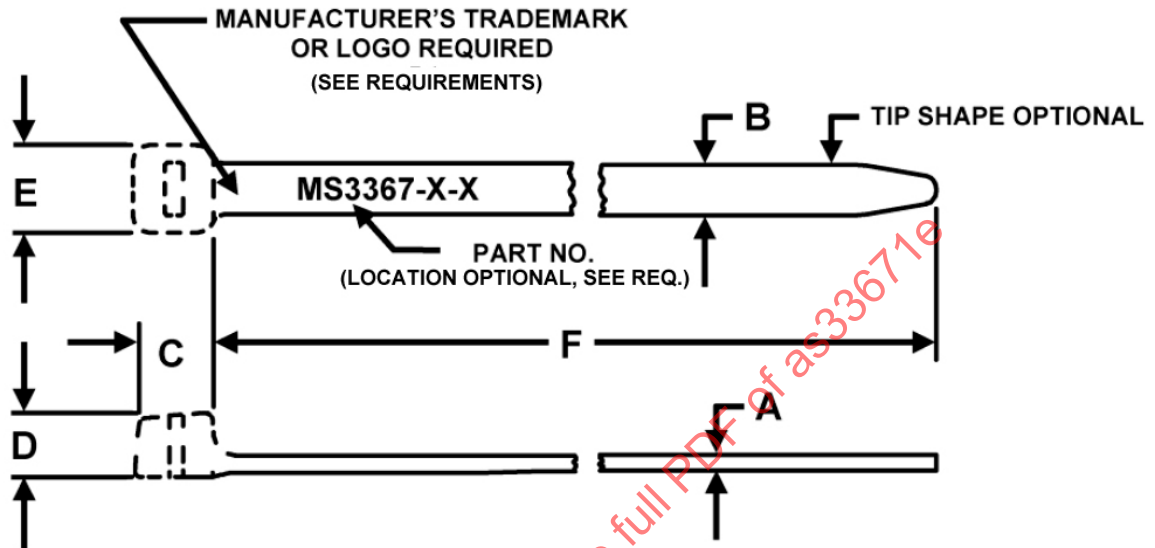
RATIONALE

AS33671E HAS BEEN REVISED TO INCLUDE HIGH PERFORMANCE MATERIALS AND THE EXTRA HEAVY INSTALLATION TOOL.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS23190.

FEDERAL SUPPLY CLASS
4030



ALTERNATE HEAD DESIGN 1

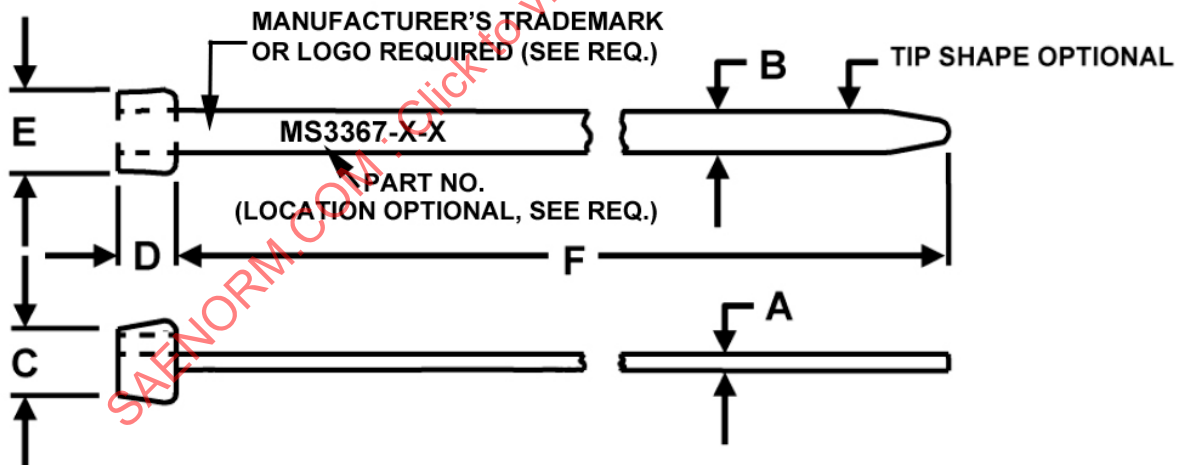
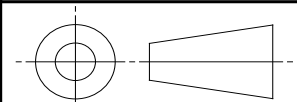


FIGURE 1 - STRAP CONFIGURATIONS/DIMENSIONS

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS33671E>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS23190



AEROSPACE STANDARD

(R) STRAP, TIEDOWN, ELECTRICAL COMPONENTS, ADJUSTABLE, SELF-CLINCHING, PLASTIC, TYPE I, CLASS 1

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ISSUED 1997-09 REAFFIRMED 2012-08 REVISED 2015-08

ALTERNATE HEAD DESIGN 2 (In Line Low Profile Parallel Entry)

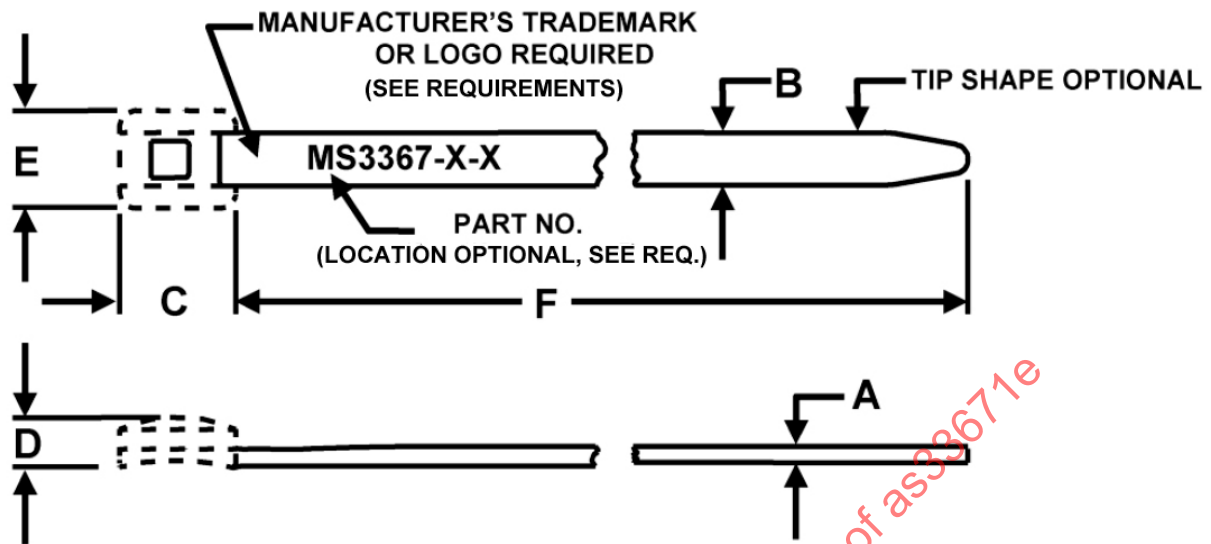


FIGURE 2 - STRAP CONFIGURATIONS/DIMENSIONS

ALTERNATE HEAD DESIGN 3 (In Line Strap)

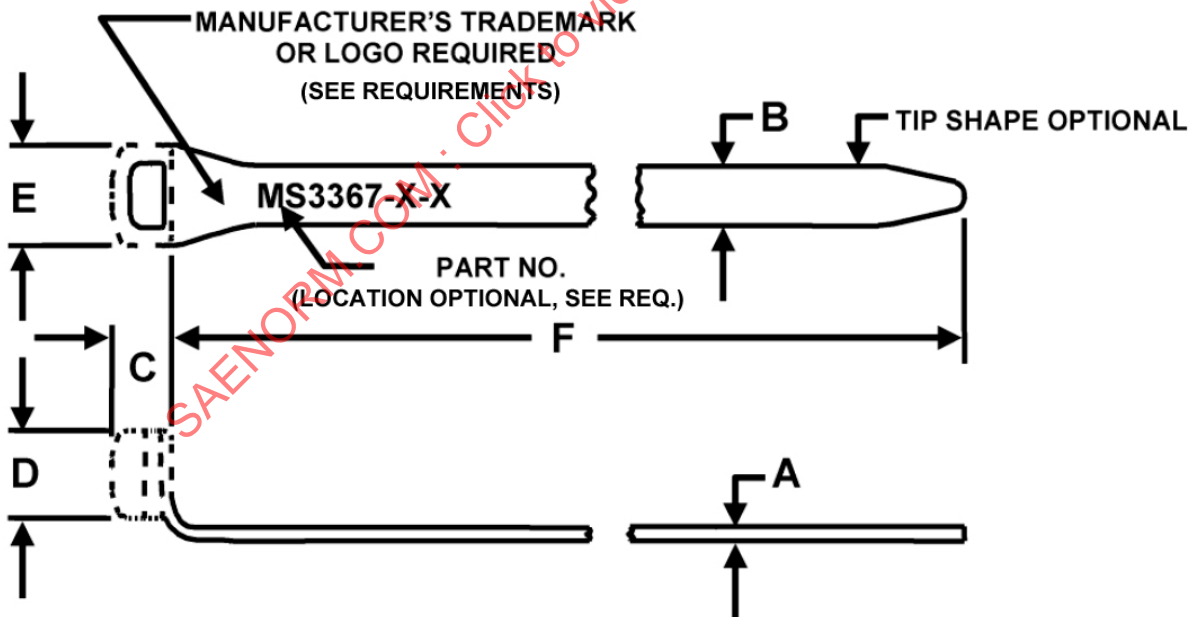


FIGURE 3 - STRAP CONFIGURATIONS/DIMENSIONS

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TABLE 1 - FIGURE 1 CONFIGURATION/DIMENSIONS

MS3367 SIZE DASH NUMBER	FIGURE NUMBER	BUNDLE DIAMETER (INCHES)		A MAX.	B MAX.	C MIN.	D MAX.	E MAX.	F MIN.
		MIN.	MAX.						
1	1	1/16	1 3/4	.055	.190	.275	.240	.320	6.30
2	1	1/16	4	.055	.192	.275	.240	.365	13.35
3	1	3/16	3 1/2	.083	.310	.375	.330	.535	12.00
4	1	1/16	5/8	.046	.100	.175	.170	.195	2.72
5	1	1/16	1 1/4	.055	.146	.220	.200	.260	4.68
6	1	3/16	8	.083	.310	.375	.330	.550	26.25
7	1	1/16	3	.055	.192	.275	.240	.365	10.20
8	1	1 1/2	5	.095	.360	.435	.360	.590	17.00
9	1	1 1/2	6	.095	.360	.435	.360	.590	21.00
10	1	1 1/2	7 3/16	.095	.360	.435	.360	.590	24.00
11	1	4	8	.095	.360	.435	.360	.590	28.00
12	1	4	9 3/4	.095	.360	.435	.360	.590	32.00
13	1	6	11	.095	.360	.435	.360	.590	36.00
14	1	6	12 1/4	.095	.360	.435	.360	.590	39.00
15	1	6	13	.095	.360	.435	.360	.590	44.00
16	1	6	14 1/2	.095	.360	.435	.360	.590	48.00
17	1	6	16 1/4	.095	.360	.435	.360	.590	51.00
18	1	6	18 1/4	.095	.360	.435	.360	.590	57.00
19	1	1 1/2	4	.095	.510	.950	.420	.860	14.00
20	1	1 1/2	5	.095	.510	.950	.420	.860	19.00
21	1	1 1/2	6	.095	.510	.950	.420	.860	21.00
22	1	4	8	.095	.510	.950	.420	.860	27.00
23	2	3/8	1 3/4	.066	.200	.700	.250	.370	6.30
24	2	3/8	4	.055	.200	.700	.250	.370	13.35
25	2	9/16	4	.083	.350	1.380	.330	.600	12.00
26	2	3/16	5/8	.046	.100	.470	.180	.260	2.72
27	2	3/16	1 1/4	.055	.146	.550	.220	.300	4.68
28	2	9/16	8	.083	.350	1.380	.330	.600	26.25
29	2	3/8	3	.055	.200	.700	.250	.370	10.20
30	3	5/64	1	.041	.101	.143	.213	.214	3.1
31	3	5/64	1 1/2	.045	.101	.150	.213	.214	4.6
32	3	5/64	2	.045	.101	.150	.213	.214	6.2
33	3	5/64	1 1/2	.043	.143	.185	.255	.267	4.9
34	3	5/64	3	.055	.143	.197	.255	.267	9.8
35	3	5/64	4	.055	.143	.197	.255	.267	13.0
36	3	11/64	2	.047	.193	.195	.286	.337	6.6
37	3	9/32	3	.055	.193	.220	.286	.337	9.8
38	3	9/32	4	.055	.193	.220	.286	.337	13.0
39	3	11/64	2	.062	.255	.245	.322	.405	7.0
40	3	5/16	4	.075	.305	.328	.406	.510	13.6
41	3	5/16	6	.075	.305	.328	.406	.510	19.9



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TABLE 2 - FIGURES 1 THRU 3 CONFIGURATION DETAILS

MS3367 SIZE DASH NUMBER	MIN. TENSILE STRENGTH LB.	STRAP ID CODE (SEE REQ.)	MS INSTALLATION TOOL	TOOL TENSION SETTING RANGE (SEE APPLICATION NOTES)
1	50	STD (STANDARD)	MS90387-1	6 TO 8
2	50	STD (STANDARD)	MS90387-1	6 TO 8
3	120	HVY (HEAVY)	MS90387-2	5 TO 8
4	18	MIN (MINIATURE)	MS90387-1	1 TO 3
5	30	INT (INTERMEDIATE)	MS90387-1	3 TO 5
6	120	HVY (HEAVY)	MS90387-2	5 TO 8
7	50	STD (STANDARD)	MS90387-1	6 TO 8
8	175	HVY (HEAVY)	MS90387-2	5 TO 8
9	175	HVY (HEAVY)	MS90387-2	5 TO 8
10	175	HVY (HEAVY)	MS90387-2	5 TO 8
11	175	HVY (HEAVY)	MS90387-2	5 TO 8
12	175	HVY (HEAVY)	MS90387-2	5 TO 8
13	175	HVY (HEAVY)	MS90387-2	5 TO 8
14	175	HVY (HEAVY)	MS90387-2	5 TO 8
15	175	HVY (HEAVY)	MS90387-2	5 TO 8
16	175	HVY (HEAVY)	MS90387-2	5 TO 8
17	175	HVY (HEAVY)	MS90387-2	5 TO 8
18	175	HVY (HEAVY)	MS90387-2	5 TO 8
19	250	EXTRA HVY (E HEAVY)	MS90387-4	5 TO 8
20	250	EXTRA HVY (E HEAVY)	MS90387-4	5 TO 8
21	250	EXTRA HVY (E HEAVY)	MS90387-4	5 TO 8
22	250	EXTRA HVY (E HEAVY)	MS90387-4	5 TO 8
23	50	STD (STANDARD)	MS90387-1	6 TO 8
24	50	STD (STANDARD)	MS90387-1	6 TO 8
25	120	HVY (HEAVY)	MS90387-2	5 TO 8
26	18	MIN (MINIATURE)	MS90387-1	1 TO 3
27	30	INT (INTERMEDIATE)	MS90387-1	3 TO 5
28	120	HVY (HEAVY)	MS90387-2	5 TO 8
29	50	STD (STANDARD)	MS90387-1	6 TO 8
30	18	MIN (MINIATURE)	MS90387-1	1 TO 3
31	18	MIN (MINIATURE)	MS90387-1	1 TO 3
32	18	MIN (MINIATURE)	MS90387-1	1 TO 3
33	40	INT (INTERMEDIATE)	MS90387-1	3 TO 5
34	40	INT (INTERMEDIATE)	MS90387-1	3 TO 5
35	40	INT (INTERMEDIATE)	MS90387-1	3 TO 5
36	50	STD (STANDARD)	MS90387-1	6 TO 8
37	50	STD (STANDARD)	MS90387-1	6 TO 8
38	50	STD (STANDARD)	MS90387-1	6 TO 8
39	85	HVY STD (HEAVY STD)	MS90387-2	4 TO 6
40	120	LT HVY (LIGHT HEAVY)	MS90387-2	5 TO 8
41	120	LT HVY (LIGHT HEAVY)	MS90387-2	5 TO 8



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