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THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS3108D, NOTICE 1, AMENDMENT 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS3108D, NOTICE 1, AMENDMENT 1. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: MIL-C-5015

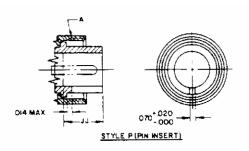


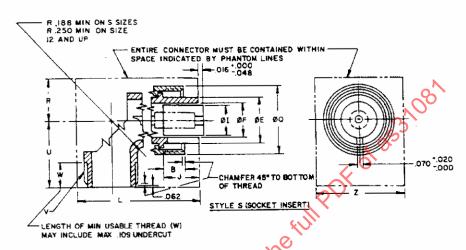
AEROSPACE STANDARD

CONNECTORS, PLUG, ELECTRIC, SOLDER CONTACT, 90 DEGREE, AN TYPE

AS31081 SHEET 1 OF 9

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CLASS A-SOLID SHELL

CLASS B-SPLIT SHELL

S12E	A COUPLING THREAD	8 +.000 062 EXTENSION COUPLING RING	#.000 015	⊕F Min	MAX MAX (MSERT	J LENGTH ENGAGE- MENT ±.005	(4) JJ +.031 000 INSERI LOCATION	ON	###X CDUPLING RING	MAX	Y THREAD	MIN USABLE THREAD	Ř MAX	Z PAX CLASS 8 OHLT	FOR INSERT ARRANGEMENT SEE
85	1/2-28		. 365	.252	-250				.844	. 938	1/2-28		.422	.844	
105			.440	.323	.320	J'SO		1.750	.969	1.000	172-20		. 485	.969	
IOSL	5/8-24	.375	.446		.440	3	.562	1.812	. 30.9	1.000	5/8-24		. 531	1 1-062	
125				.450	448			2.000	1,062	1.062	3/0-24		.53	1	
12	3/4-20	.625	.555	.430	11,000	.719	.750	Z.250	1.062	1.002				<u> </u>	M1L-STD- 1651
145		.375		Q_{-}	.525	.531	. 562	2.125	1.156	1.125	3/4-20	.375	.656	1_156	
14	7/8-20	. 625	.675	576	.525	.719	. 750	2.312	1,136	123				1	
165		.375	805	.651	.650	.531	.562	2.375	1.250	1_188	7/8~20		.750	1.312	
15	1 -20	- K	805	-651	. 650			2-562	1.250	1-186	778-20]	.730	,	1
18	1-1/6-16		. 930	.776	.770	}	,	2.688	1.344	1.312	1 -20]	.828	1.344	1
20	1-1/4-18	7	1.050	. 932	.925]		3.031	1,469	1.375	1-3/16-18		.906	1.625	
22	1-3/8-18		1.175	1.026	1.020]			1,594	1.3/3	1-3/16-18]	- 969	1.623	
24	1-172-18		1.300	1,151	1,145	.719	.750	3.406	1,719				1.031	2.000	1
28	1-3/4-18	.625	1.520	1_370	1.365			i	1.969	1.562	1-7/16-18		1.156	1	
32	2 -18	1	1.770	1.620	1.615]	1	3.750	2.219	1,875	1-3/4-18	.438	1.312	2.500	
36	2-1/4-16	1	1.980	1.838	1.830]	1	3,938	2.469	2.062	2 -18	.580	1.436]
40	2-1/2-16	1	2.230	2.057	2.045	1		4.750	2.719	2.125	2-1/4-16	.300	1.562	3.031]

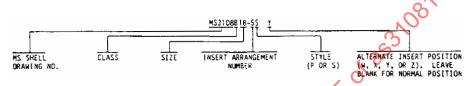
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NOTES:

- (a) CLASS A PLUGS ARE CANCELLED AFTER 1 JAN 1991. FOR REPLACEMENT PURPOSES USE MS31088.

 MANUFACTURES MAY CONTINUE TO SUPPLY MS3108A CONNECTORS UNTIL 1 JAN 1992 OR EXHAUST THEIR INVENTORIES, WHICHEVER COMES FIRST. FOR SHIPBOARD JACKETED CABLE USE MS3408.
- (b) CLASS B PLUGS ARE INACTIVE FOR NEW DESIGN AFTER 1 JAN 1991.
- (c) WHERE RESILIENT INSERTS ARE USED, JJ MAY BE .109 LESS THAN THAT INDICATED.
- (d) SOCKET INSERT OF HARD MATERIAL SHALL EXTEND .016 MAXIMUM BEYOND OR .032 MAXIMUM BELOW SHELL. SOCKET INSERT OF RESILIENT MATERIAL SHALL EXTEND .047 +.000 -.047 BEYOND SHELL AS SHOWN.
- (e) MS31088 CONNECTORS REPLACE AND ARE INTERCHANGEABLE WITH CORRESPONDING MS3108A, AN3108A OR AN3108B CONNECTORS.

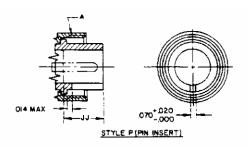
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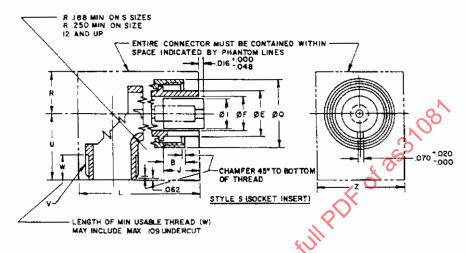


DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.016. THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

CERTAIN PROVISIONS OF THIS SPECIFICATION SHEET ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT NEPR 28. WHEN AMENDMENT, REVISION OR CANCELLATION OF THIS SPECIFICATION SHEET IS PROPOSED WHICH WILL MODIFY THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES TO CHANGE THE AGREEMENT OR MAKE OTHER APPROPRIATE ACCOMODATIONS.







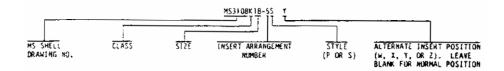
CLASS K-FIREMALL

SIZE	COUPLING THREAD	#.000 062 EXTENSION COUPLING RING	₽£ •.000 015	er M(h	Ø I MAX INSERT	J LENGTH ENGAGE MENT	.03) 03) 000 INSERT LOCATION	Carry	PO MAY COUPLING RING	U MAX	THREAD	MIN USABLE THREAD	R HAX	Z	FOR INSERT ARRANGEMENT SEE
85	1/2-28		.365	.252	-250	M	V.	1.750	.844	1.000			.422	.844	
105			.440	.323	.320	··CX		1.938			1/2-28		. 485	. 969	
10\$1	5/8-24	.375	.446		-440	331	. 562	2,188	.969	1.250					
125								2.312	,				-531		
12	3/4-20	.625	.555	-450	.448	.719	. 750	2.531	1.062	1.406	5/8-24		.531	1.062	MIL-STD-
145	7.40.70	.375	.675	\mathcal{O}		.531	. 562	2.500]			1651
14	7/8-20	.625	.6/	.526	.\$25	.719	.750		1.172	1.469	3/4-20	.375	,656	1.156	
165	, ,	.375	\mathcal{I}	453		,531	. 562	2.719]	7/0		
16	1 -20	-2	.805	.651	-650		1	2.938	1.266	1.533	7/8-20		.750	1.312	
18	1-1/8-18	O,	. 930	.776	.770]		3.188	1.359	1.625	1 -20		.828	1.344	
50	1-1/4-18	7	1.050	. 937	- 925			3.375	1.484	. (20]	. 906	1.631	
55 .	1-3/8-18	. 625	1.175	1.026	1.020	l	•	3.406	1.609	1.688	1-3/16-18		. 969	1.625	
24	1-172-18	.625	1.300	1.151	1_145	.719	. 750	3.875	1.734	2.031		Ì	1.031		}
28	1-3/4-18	}	1.520	1.370	1.365			4.094	1.984	2_312	1-7/16-18		1.156	2.000	
32	2 -18]	1.770	1.620	1.615]		4.438	2.234	2.438	1-3/4-1B	.438	1.312	2.500	
36	2-1/4-16		1.980	1.838	1.830			\$.000	2.484	2.656	2 -18	.500	1.438		
40	2-1/2-16		2,230	2.057	2.D45	<u></u>	l	5.000	2.719	2.125	2-1/4-16]	1.562	3.031]

NOTES:

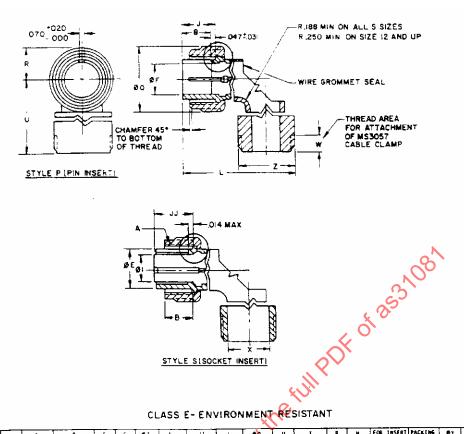
- (a) CLASS K PLUGS ARE INACTIVE FOR NEW DESIGN AFTER 1 JAN 1991. FOR SHIPBOARD JACKETED CABLE USE MS3408.
- (b) MS3108K CONNECTORS REPLACE AND ARE INTERCHANGEABLE WITH CORRESPONDING AN3108K CONNECTORS.

EXAMPLE OF PART NUMBER:



DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.016. THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.





CLASS	E-	ENVIRONMENT	RESISTANT
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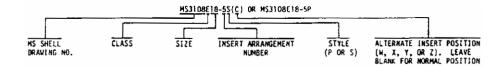
SI ZE	A COUPLING THREAD	8 •.000/062 EXTENSION COUPLING RING	- 015	F H N B SQLENE		J +.005 TENGTH ENGAGE- MENT	JJ 4,047 -,000 INSERT LOCATION	L MAX UYERAL LEMGTH	EOUPLING RING	U MAX	I CABLE CLEARANCE MIN	R Mu	M NEN USABLE THREAD	FOR INSERT ARRANGE- MENT SEE	PACKING MSZ8900 DASH MO.	# .005 010	MAX
85	1/2-28		.365	.252	.250		ν(.841		.172	.422			-8	. 355	1.046
105			.440	.323	. 320			2.156	.969	1.469		.516			-10	440	
:05L	5/8-24	. 375	.446		.440	.53!	C. 62.	2.188	. 707	,	, 2B1	.516			-10	.446	
125]	1.062	1.500		. 562			-12	.555	1.125
12	3/4-20	- 625	.555	.450	.446	.715	,719	2.531	1.062			. 302		M1L-STO- 1561		.555	
145		.375				.531	.531	2.312	1.156	1.594	.406	. 625			-14	.675	1.343
14	274-20	.625	.675	.526	.525	.719	.719	2.688	1,130	1.39	.100		Ì			.675	
165		. 375				.531	.531	2.406	1.250	1.688	. 500	. 688	.375		-16	.805	1.484
16	1 -20		803	651	.650			2.78	1.250	1.000	, 300		4			805	
18	1-1/9-18		. 930	.776	.776 .770	Ĭ		2.344	1.344	1.781	.531	.750			-18	. 930	1.609
20	3-1/4-18	V.	1.050	. 932	.925	1		1.250	1.469	1.969	.656	, 644			-20	1,050	1.890
22	1-3/8-18		1,175	1.026	056.1	1	İ	3.250	1.594	2.000	. 750	. 906	3]	ı	-22	1,175	
?4	1-1/2-18	.6.15	1.300	0 1.351 1.145			1.719	1.719	2.125	.781	.953]		- 24	1.300	2.170	
28	1-3/4-18	1	1.520	1.370	1.365	.719	.719	3,719	1.969	2.188	.922	1,094		1	-28	1.520	
12	2 -18	1	1.770	1.620	1.615	1		4.188	2.219	2.594	1.156	1.234	.438]	- 32	1_770	2.650
36	2-1/4-16	1	1.980	1.838	1,830	1	1	4.297	2.159	2,719	1,250	1.359		Ì	-36	1.980	2.922
40	2-1/2-16	1	2.230	2.057	2.047	- (7,411	2.719	4.730	1.562	1,422	.50u	Ì	-40	2.230	3.531

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NOTES:

- (a) CLASS E IS CANCELLED AFTER 1 JAN 1991. MANUFACTURERS MAY CONTINUE TO SUPPLY MS3108E CONNECTORS UNTIL 1 JAN 1992 OR EXHAUST THEIR INVENTORIES, WHICHEVER COMES FIRST. FOR REPLACEMENT PURPOSES USE MS3108R WITH APPROPRIATE MIL-C-85049 CLAMP. FOR SHIPBOARD JACKETED CABLE USE MS3408.
- (b) MS3108E CONNECTORS REPLACE AND ARE INTERCHANGEABLE WITH CORRESPONDING AN3108E CONNECTORS.

EXAMPLE OF PART NUMBER:



DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.0460 THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

