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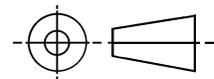
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THIRD ANGLE PROJECTION



ISSUED 2001-03

PREPARED BY SAE SUBCOMMITTEE AE-8C1

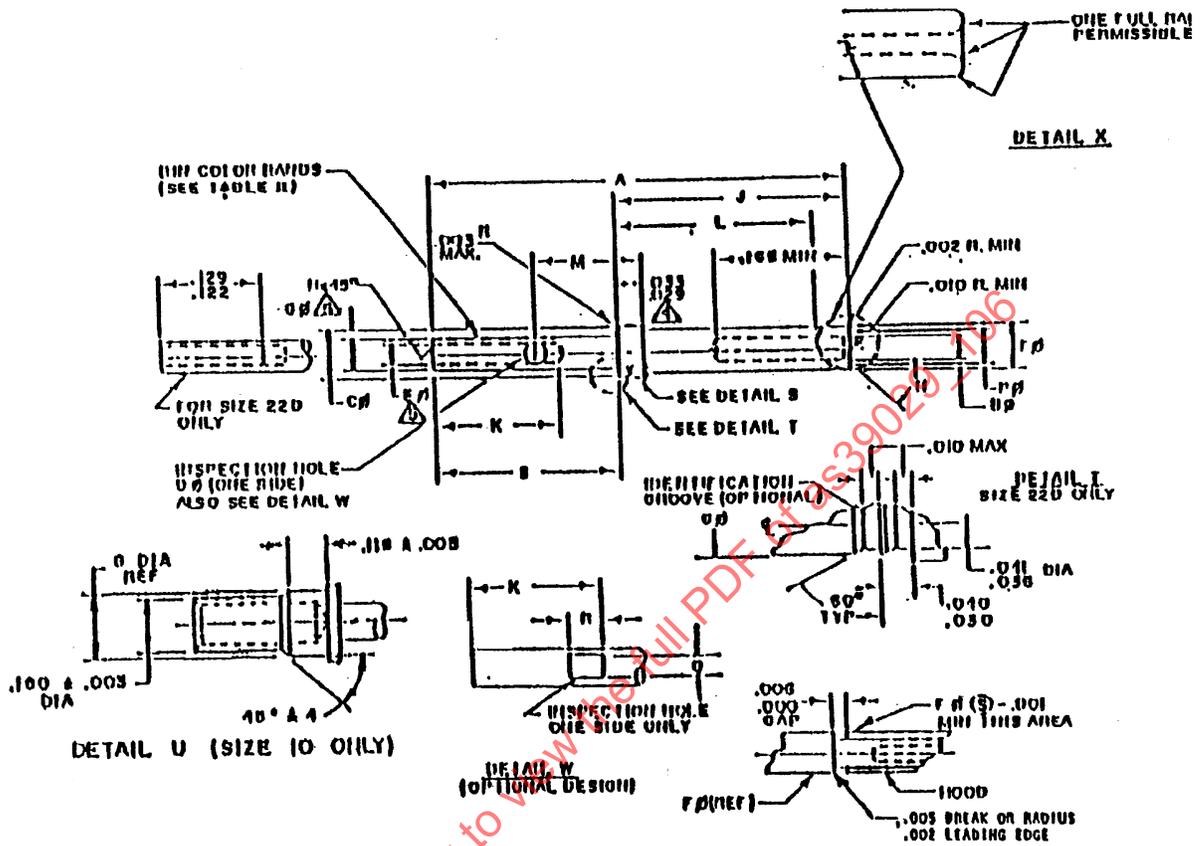


**AEROSPACE STANDARD**

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, (FOR MIL-C-38999 SERIES I, III AND IV AND MIL-C-29600 SERIES A CONNECTORS)

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THE COMPLETE REQUIREMENTS FOR ACQUIRING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST REVISION OF MIL-C-39029.



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TABLE I. DIMENSIONS.

BIN Code	A REF	B $\emptyset$ Min	C $\emptyset$	D $\emptyset$	E $\emptyset$	F $\emptyset$ MAX	G $\emptyset$	H	J	K Min	L Min	M	N $^{\circ}$	P $\emptyset$ Min	Q	R	S
614		.031	.062	.022	.0355	.062	.048	.005		.141		---	50 $^{\circ}$	.047	.022	.046	
			.060	.018	.0355		.045	.003					44 $^{\circ}$		.018	.018	
615		.0415	.094	.032	.048	.078	.070	.010		.209		.078	47 $^{\circ}$	.053	.032	.063	.237
			.091	.025	.045		.068	.005				.072	40 $^{\circ}$		.026	.026	.231
616	.855	.064	.130	.042	.068	.113	.103	.010	.626	.209	.585	.088	47 $^{\circ}$	.084	.042	.073	
			.127	.036	.066		.101	.005	.616			.082	40 $^{\circ}$	.030	.030	.036	
617		.0955	.182	.042	.102	.161	.151	.016		.209		.088	47 $^{\circ}$	.118	.042	.073	
			.179	.036	.098		.148	.005				.082	40 $^{\circ}$		.030	.036	
618	1.021	.1265	.242	.052	.140	.215	.213	.016		.385		.115	N/A	.146	N/A	N/A	.405
			.238	.046	.134		.207	.005		.355		.108	1/	1/			.395

1/ Full radius permissible.

## NOTES:

1. Dimensions are in inches unless otherwise specified.
2. Metric equivalents are based upon 1 inch = 25.4 mm.
3. Dimensions apply after plating.
4. Indicated dimension does not apply for BIN-614.
5. For BIN-614 only, diameters E and G to be concentric with full indicator movement (FIM) regardless of feature size (S); for all other contact sizes, diameters E and G to be concentric within .001 FIM at maximum material condition (M).
6. Point at which a square ended pin of the same basic diameter as the mating contact first engages the socket contact spring.
7. Hoods shall not exceed contact body diameter (S) in attachment area.
8. Optional design may have a full length corrosion resistant steel hood.
9. Manufacturers trademark per AIR-1351.

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	.0762	.052	1.321	.098	2.489	.179	4.547
.005	.1270	.053	1.346	.101	2.565	.182	4.623
.010	.2540	.060	1.524	.102	2.591	.207	5.258
.016	.4064	.062	1.575	.103	2.616	.209	5.309
.018	.4572	.063	1.600	.108	2.743	.213	5.410
.022	.5588	.064	1.626	.113	2.870	.215	5.461
.026	.6604	.066	1.676	.115	2.921	.231	5.867
.030	.7620	.068	1.727	.118	2.997	.237	6.020
.031	.7874	.070	1.778	.1265	3.213	.238	6.045
.032	.8128	.072	1.829	.127	3.226	.242	6.147
.0335	.8509	.073	1.854	.130	3.302	.355	9.017
.0355	.9017	.078	1.981	.134	3.404	.385	9.779
.036	.9144	.082	2.083	.140	3.556	.395	10.03
.0415	1.054	.084	2.134	.141	3.581	.405	10.29
.042	1.067	.088	2.235	.146	3.708	.585	14.86
.046	1.168	.091	2.311	.148	3.759	.616	15.65
.047	1.194	.094	2.388	.151	3.835	.626	15.72
.048	1.219	.0955	2.426	.161	4.089	.855	21.72

TABLE II. DESIGN CHARACTERISTICS.

BIN code	Color bands			Mating end size	Wire barrel Size	Type	Class
	1st	2nd	3rd				
614	Blue	Brown	Yellow	22	22D		
615	Blue	Brown	Green	20	20		
616	Blue	Brown	Blue	16	16	A	B
617	Blue	Brown	Violet	12	12		
618	Blue	Brown	Gray	10	10		

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