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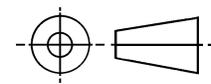
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THIRD ANGLE PROJECTION



ISSUED 2001-03

PREPARED BY SAE SUBCOMMITTEE AE-8C1

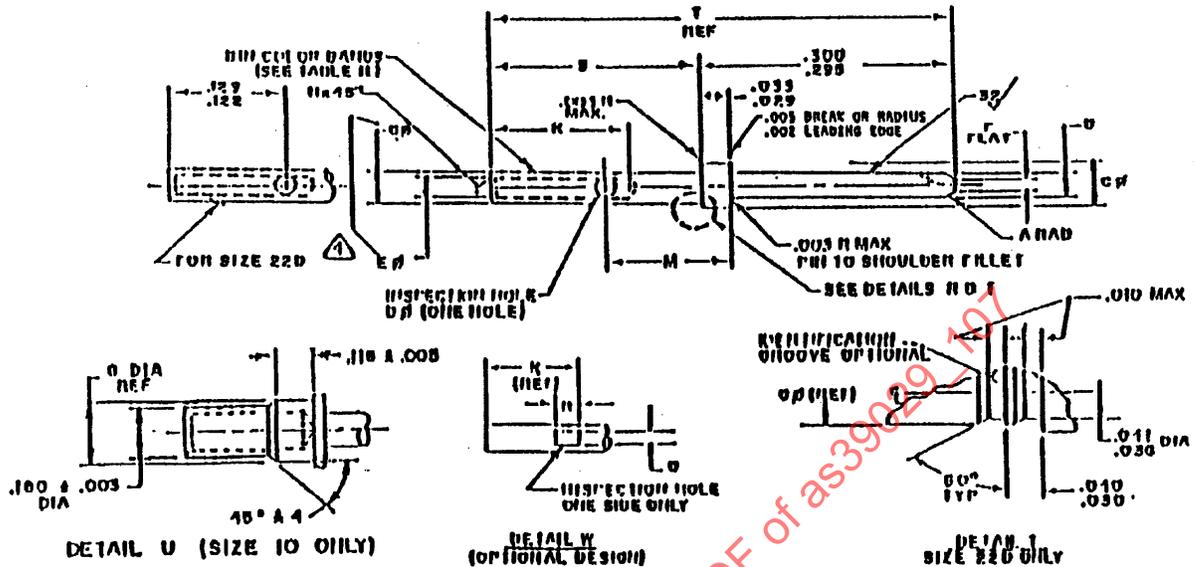


**AEROSPACE STANDARD**

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

**AS39029/107**  
SHEET 1 OF 5

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



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. For BIN-614 only, diameters E and G shall be concentric within .003 full indicator movement (FIM) regardless of feature size S; for all other contact sizes, diameters E and G to be concentric within .001 FIM of maximum material condition M.
5. Manufacturers trademark per AIR-1351.

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TABLE I. DIMENSIONS.

BIN Code	A Radius	B $\emptyset$	C $\emptyset$	D $\emptyset$	E $\emptyset$	F $\emptyset$	G $\emptyset$	H	K	M	Q	R	S	T Ref
620	.020	.0305	.062	.022	.0355	.011	.048	.005	.157	--	.022	.046	.237	.531
	.010	.0295	.060	.018	0.335	Max	.046	.003	.141	--	.018	.018	.231	
621	.025	.041	.094	.032	.048	.015	.070	.010	.229	.078	.032	.063	.237	.531
	.015	.039	.091	.026	.046	Max	.068	.005	.209	.072	.026	.026	.231	
622	.025	.0635	.130	.042	.068	.030	.103	.010	.229	.088	.042	.073	.237	.531
	.020	.0616	.127	.036	.066	.011	.101	.005	.209	.082	.030	.036	.231	
623	.025	.095	.182	.042	.102	.062	.151	.016	.229	.088	.042	.073	.237	.531
	.020	.093	.179	.036	.098	.043	.148	.005	.209	.082	.030	.036	.231	
624	.025	.126	.242	.052	.140	.094	.213	.016	.385	.115	N/A	N/A	.405	.647
	.020	.124	.238	.040	.134	.074	.207	.005	.355	.108			.395	

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	.0762	.041	1.041	.091	2.311	.157	3.988
.005	.1270	.042	1.067	.093	2.362	.179	4.547
.010	.2540	.043	1.092	.094	2.388	.182	4.623
.011	.2794	.046	1.168	.095	2.413	.207	5.258
.015	.3810	.048	1.219	.098	2.489	.209	5.309
.016	.4064	.060	1.524	.101	2.565	.213	5.410
.018	.4572	.0616	1.565	.102	2.591	.229	5.817
.020	.5080	.062	1.575	.103	2.616	.231	5.867
.022	.5588	.063	1.600	.108	2.743	.237	6.020
.025	.6350	.0635	1.613	.115	2.921	.238	6.045
.026	.6604	.066	1.676	.124	3.150	.242	6.147
.0295	.7493	.068	1.727	.126	3.200	.252	6.401
.030	.7620	.070	1.778	.127	3.226	.355	9.017
.0305	.7747	.072	1.829	.130	3.302	.385	9.779
.032	.8128	.073	1.854	.134	3.404	.395	10.033
.0335	.8509	.074	1.880	.140	3.556	.405	10.287
.0355	.9017	.078	1.981	.141	3.581	.531	13.49
.036	.9144	.082	2.083	.148	3.759	.647	16.434
.039	.9906	.088	2.235	.151	3.835		
.040	1.016						

TABLE II. DESIGN CHARACTERISTICS.

BIN code	Color bands			Mating end size	Wire barrel size	Type	Class
	1st	2nd	3rd				
620	Blue	Red	Black	22	22D	A	B
621	Blue	Red	Brown	20	20		
622	Blue	Red	Red	16	16		
623	Blue	Red	Orange	12	12		
624	Blue	Red	Yellow	10	10		

TABLE III. TOOLS.

Wire barrel size	Basic crimping tool	Positioner	Installing tool	Removal tool
22D	M22520/2-01 M22520/7-01	M22520/2-09 M22520/7-07	M81969/14-01 M81969/8-01	M81969/14-01 M81969/8-02
20	M22520/1-01 M22520/2-01 M22520/7-01	M22520/1-04 Red M22520/2-10 M22520/7-08	M81969/14-10 M81969/8-05	M81969/14-10 M81969/8-06
16	M22520/1-01 M22520/7-01	M22520/1-04 Blue M22520/7-04	M81969/8-07 M81969/14-03	M81969/8-08 M81969/14-03
12	M22520/1-01	M22520/1-04 Yellow	M81969/14-04 M81969/8-09	M81969/14-04 M81969/8-10
10	M22520/XX <u>1/</u>	M22520/XX <u>1/</u>	M81969/8-XX <u>1/</u> M81969/14-05	M81969/8-YY <u>1/</u> M81969/14-05

1/ To be determined

#### REQUIREMENTS:

Contacts shall comply with reliability assurance provisions of MIL-STD-790 as specified in MIL-C-38999.

Dimensions: See Figure 1 and Table I.

Design characteristics and configuration: See Figure 1 and Table II.

Tools: See Table III.

Mating contacts: MIL-C-39029/106.

Durability: 1500 cycles.