

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

AS39029/5

FEDERAL SUPPLY CLASS
5935

NOTICE

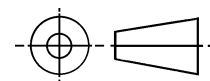
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-39029/5G, NOTICE 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-C-39029/5G, NOTICE 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.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

SAENORM.COM : Click to view the full PDF of as39029-5

THIRD ANGLE PROJECTION



ISSUED 2001-03

PREPARED BY SAE SUBCOMMITTEE AE-8C1

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space®
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE
(FOR MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3, MIL-C-83723
SERIES I AND III, AND MIL-C-83733 CONNECTORS AND
MIL-S-12883/40 AND /41 RELAY SOCKETS)

AS39029/5
SHEET 1 OF 5

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

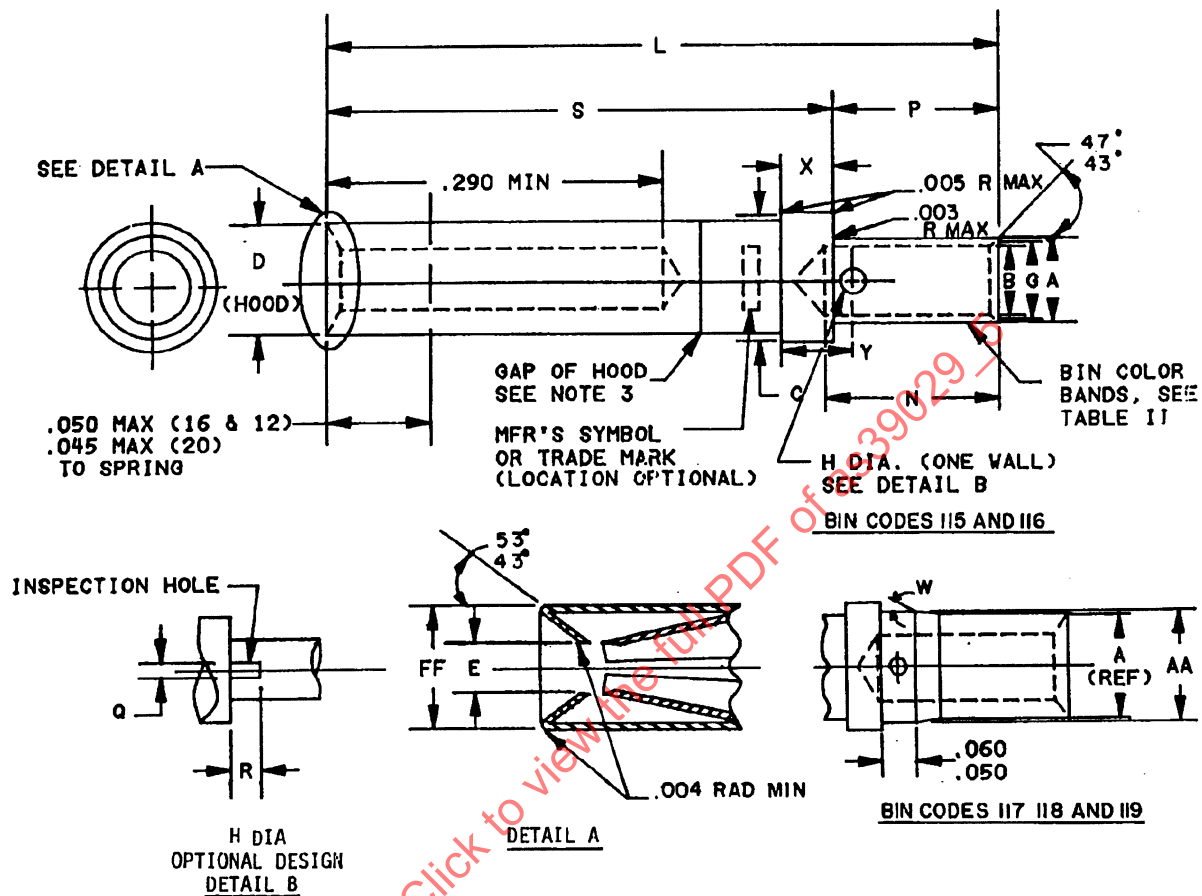


TABLE I. Dimensions.

BIN code	A Dia	B Dia	C Dia	D Dia	E Min Dia	G Dia	H Dia	L Max (Ref)	N	P	S	W ^a	X	Y	AA	FF Min Dia	Weight (Lbs) Min	Q	R
115	.078 .076	.050 .048	.103 .100	.078 .076	.0415 .041	.066 .056	.032 .026	.675	.187 .155	.171 .160	.485 .479	--	.033 .029	.068 .053	---	.060	.0007	.032 .026	.051 .026
116	.103 .101	.068 .066	.133 .130	.113 .110	.064	.092 .078	.042 .036	.759	.284 .250	.257 .246	.500 .494	--	.048 .044	.085 .068	---	.087	.0014	---	---
117	.078 .076	.050 .048	.133 .130	.113 .110	.064	.066 .056	.042 .036	.759	.284 .250	.257 .246	.500 .494	.46	.048 .044	.085 .068	.103 .101	.087	---	---	---
118	.151 .148	.102 .098	.190 .187	.161 .158	.0955 .095	.136 .116	.042 .036	.759	.284 .250	.257 .246	.500 .494	.16	.048 .044	.085 .068	.158 .155	.125	.0028	---	---
119	.103 .101	.068 .066	.190 .187	.161 .158	.0955 .095	.092 .078	.042 .036	.759	.284 .250	.257 .246	.500 .494	.46	.048 .044	.085 .068	.158 .155	.125	---	---	---

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.056	1.42	.102	2.59	.161	4.09	.102	2.59
.004	0.10	.060	1.52	.103	2.62	.171	4.34	.103	2.62
.005	0.13	.064	1.62	.110	2.79	.187	4.75	.110	2.79
.026	0.66	.066	1.68	.113	2.87	.190	4.83	.113	2.87
.029	0.74	.068	1.73	.116	2.94	.246	6.25	.116	2.94
.032	0.81	.076	1.93	.125	3.18	.250	6.35	.125	3.18
.033	0.84	.078	1.98	.130	3.30	.257	6.53	.130	3.30
.036	0.91	.085	2.16	.133	3.38	.284	7.21	.133	3.38
.0415	1.054	.087	2.21	.136	3.45	.290	7.34	.136	3.45
.042	1.07	.092	2.34	.148	3.76	.485	12.32	.148	3.76
.044	1.12	.0955	2.426	.151	3.83	.494	12.55	.151	3.83
.048	1.22	.098	2.49	.155	3.94	.500	12.70	.155	3.94
.050	1.27	.100	2.54	.158	4.01	.556	16.66	.158	4.01
.051	1.29	.101	2.56	.160	4.06	.759	19.28	.160	4.06
.053	1.35								

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Maximum gap of .010 (2.56 mm) inch between hood and body of the contact.

FIGURE 1. SOCKET CONTACT (CONTINUED).

TABLE II. DESIGN CHARACTERISTICS.

Bin code	Color bands			Mating end size	Wire barrel size	Type	Class
	1st	2nd	3rd				
115	Brown	Brown	Green	20	20	A	B
116	Brown	Brown	Blue	16	16		
117	Brown	Brown	Violet	16	20		
118	Brown	Brown	Gray	12	12		
119	Brown	Brown	White	12	16		

TABLE III. TOOLS.

BIN code	Basic crimping tool	Positioner	Installing tool	Removal tool	
				Wired contact	Unwired contact
115	M22520/2-01, M22520/1-01 or M22520/7-01	M22520/2-02, M22520/1-02 Red or M22520/7-02	M81969/8-05 M81969/14-02	M89169/8-06 M81969/14-02	M81969/30-05
116	M22520/1-01 or M22520/7-01	M22520/1-02 Blue or M22520/7-03	M81969/8-07 M81969/14-03	M89169/8-08 M81969/14-03	M89169/30-06
117	M22520/7-01 or M22520/1-01	M22520/1-02 Blue or M22520/7-03	M81969/8-05 M81969/14-02	M81969/8-06 M81969/14-02	M81969/30-05
118	M22520/1-01	M22520/1-02 Yellow	M81969/8-09 M81969/14-04	M81969/8-10 M81969/14-04	M81969/30-07
119	M22520/1-01	M22520/1-02 Yellow	M81969/8-07 M81969/14-03	M81969/8-08 M81969/14-03	M81969/30-06

REQUIREMENTS:

Dimensions, design characteristics and configuration: See figure and tables I and II.

Tools: See table III.

Mating contact: MIL-C-39029/4.

Shock (specified pulse): Method 2004 of MIL-STD-1344, test condition D, except the pulse shall be an approximate half-sine wave of 300 G $\pm$ 15 percent magnitude with a duration of 3 milliseconds $\pm$ 1. One shock shall be exerted in each of three mutually perpendicular directions.