FEDERAL SUPPLY CLASS
5935

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

NOTICE

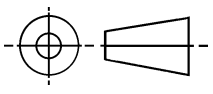
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-39029/49D AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-C-39029/49D. 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.

ISSUED 2000-07 REAFFIRMED 2007-01

THIRD ANGLE PROJECTION



PREPARED BY SAE SUBCOMMITTEE AE-8C1

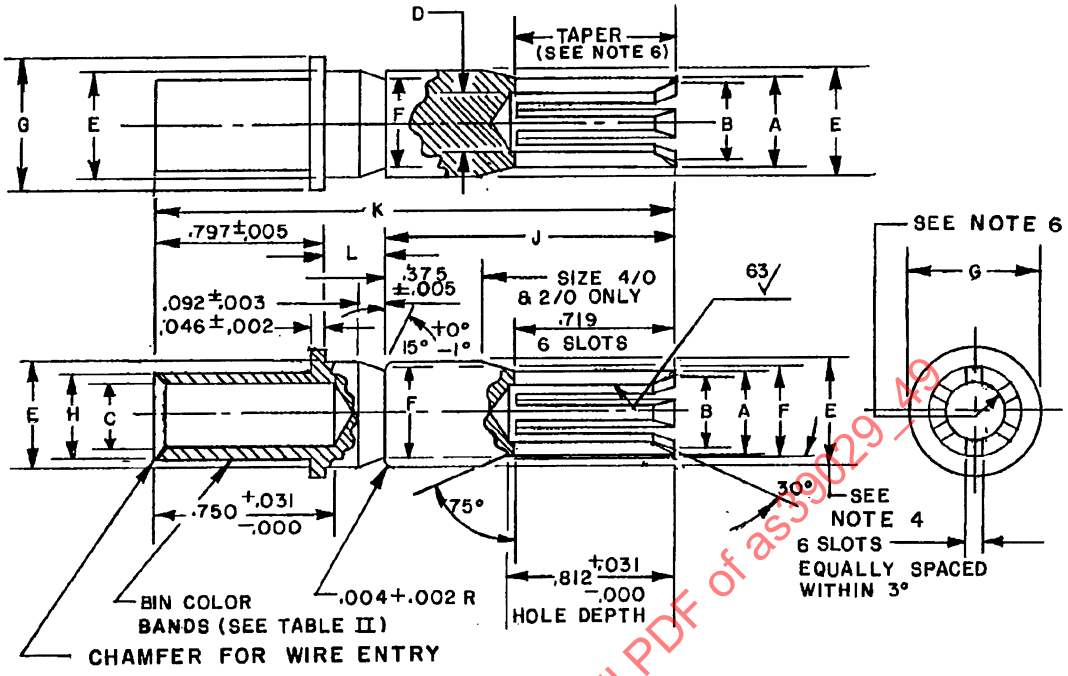
SAE Aerospace
An SAE International Group

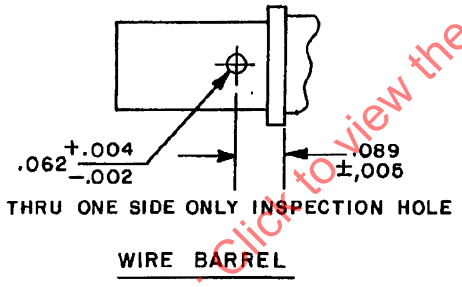
AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE
(FOR MIL-C-22992 CLASS L CONNECTORS)

AS39029/49
SHEET 1 OF 6

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





INCHES	MM
.000	0.00
.002	0.05
.003	0.08
.004	0.10
.005	0.13
.031	0.79
.046	1.17
.062	1.57
.089	2.26
.092	2.34
.375	9.53
.750	19.05
.797	20.24
.812	20.62

FIGURE 1. DIMENSIONS AND CONFIGURATION.

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.001	0.03	.180	4.57	.342	8.69	.516	13.11	.654	16.61	1.158	29.41
.002	0.05	.227	5.77	.374	9.50	.541	13.74	.680	17.27	1.283	32.59
.003	0.08	.251	6.38	.408	10.36	.586	14.88	.688	17.48	1.752	44.50
.004	0.10	.287	7.29	.417	10.59	.609	15.47	.723	18.36	2.206	56.03
.005	0.13	.312	7.92	.472	11.99	.629	15.98	.748	19.00	2.393	60.78
		.313	7.95	.502	12.75	.635	16.13	.750	19.05	2.862	72.70
		.334	8.48	.506	12.85	.641	16.28	.781	19.84		

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions shown apply after plating.
4. Locating on the E diameter, the center of each spring leaf, within .062 of its slotted end, shall be within .015 TIR after forming.
5. Taper shall be uniform within .002.
6. Inside edges of slots to be free of burrs.
7. Unless otherwise specified, tolerances are ±.010 inches and ±2°.
8. To properly crimp a wire of a smaller gauge than the contact wire barrel, the appropriate MS 3448 bushing must be used.
9. Manufacturer's trademark location optional.

FIGURE 1. DIMENSIONS AND CONFIGURATION - CONTINUED.

TABLE I. Dimensions.

BIN code	A DIA		B DIA MIN	C DIA		D DIA MIN	E DIA +.002 -.001	F DIA		G DIA		H DIA		J ±.005	K REF	L ±.002
329	.312	+.002 -.001	.287	.234	±.002	.180	.312	.286	±.002	.342	±.002	.312	±.002	1.158	2.206	.251
330	.312		.287	.234		.180	.312	.286		.342		.312		1.752	2.862	.313
331	.334		.306	.281		.227	.334	.308		.417		.374		1.158	2.206	.251
332	.334		.306	.281		.227	.334	.308		.417		.374		1.752	2.862	.313
333	.516		.472	.406	+.004 -.003	.359	.516	.490	+.002 -.005	.609	±.003	.506	+.004 -.003	1.283	2.393	.313
334	.586	±.002	.541	.500		.408	.654	.629		.688		.609		1.283	2.393	.313
335	.680		.635	.641		.502	.748	.723		.781		.750		1.283	2.393	.313

REQUIREMENTS:

Dimensions, design characteristics, and configuration: See figure 1 and tables I and II.

Tools: See table III.

Probe damage: Probe damage shall be performed in accordance with MIL-STD-1344, method 2006.2, type 2 fixturing (insert typeholding device) using Mil-C-22992, class L connectors.

Vibration: In accordance with method 2005 of MIL-STD-1344, test condition III. The following detail and exceptions shall apply.

a. Normal locking means only, no safety wire shall be used.

b. The cable or wire bundle shall be clamped to nonvibrating points at least 8 inches from the rear of the connectors. The clamping length may be selected or changed to avoid resonance of the cable or wire.

c. The system ground contacts of class L grounding connectors shall not be wired into the series monitoring circuit.

Shock: MIL-C-39029/49 contacts shall be tested in accordance with the drop test (class L) and high impact shock test as specified in MIL-C-22992, using a MIL-C-22992 qualified connector that has been approved for listing on the applicable qualified products list.

Mating contact: MIL-C-39029/48.

Material: Copper alloy CDA191 or equivalent.

Finish: Silver plate .0002 inch thick minimum in accordance with QQ-S-365. Use underplate of .00005 inch minimum nickel in accordance with QQ-N-290.

Concentricity: .004 TIR(RFS), machined surfaces 63 $\overline{V}$ unless otherwise specified.

Contacts may be soldered or crimped.

Qualification: Shall include the crimping of these contacts utilizing MS3448 bushings to accommodate smaller wire sizes.

QPL evaluating activity: Defense Electronics Supply Center (DESC-E), Dayton, Ohio 45444.

International interest: NEPR 57, class L only.

Military part number: See table V.