

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-39029/87C 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-39029/87C. 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.

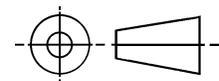
UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

SAENORM.COM : Click to view the full PDF of as39029-87

AS39029/87

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.

THIRD ANGLE PROJECTION



ISSUED 2000-07

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP
REMOVABLE, THERMOCOUPLE (FOR MIL-C-38999 SERIES I, II, III,
AND IV, MIL-C-24308, AND MIL-C-83733)

AS39029/87
SHEET 1 OF 6

AS39029/87

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

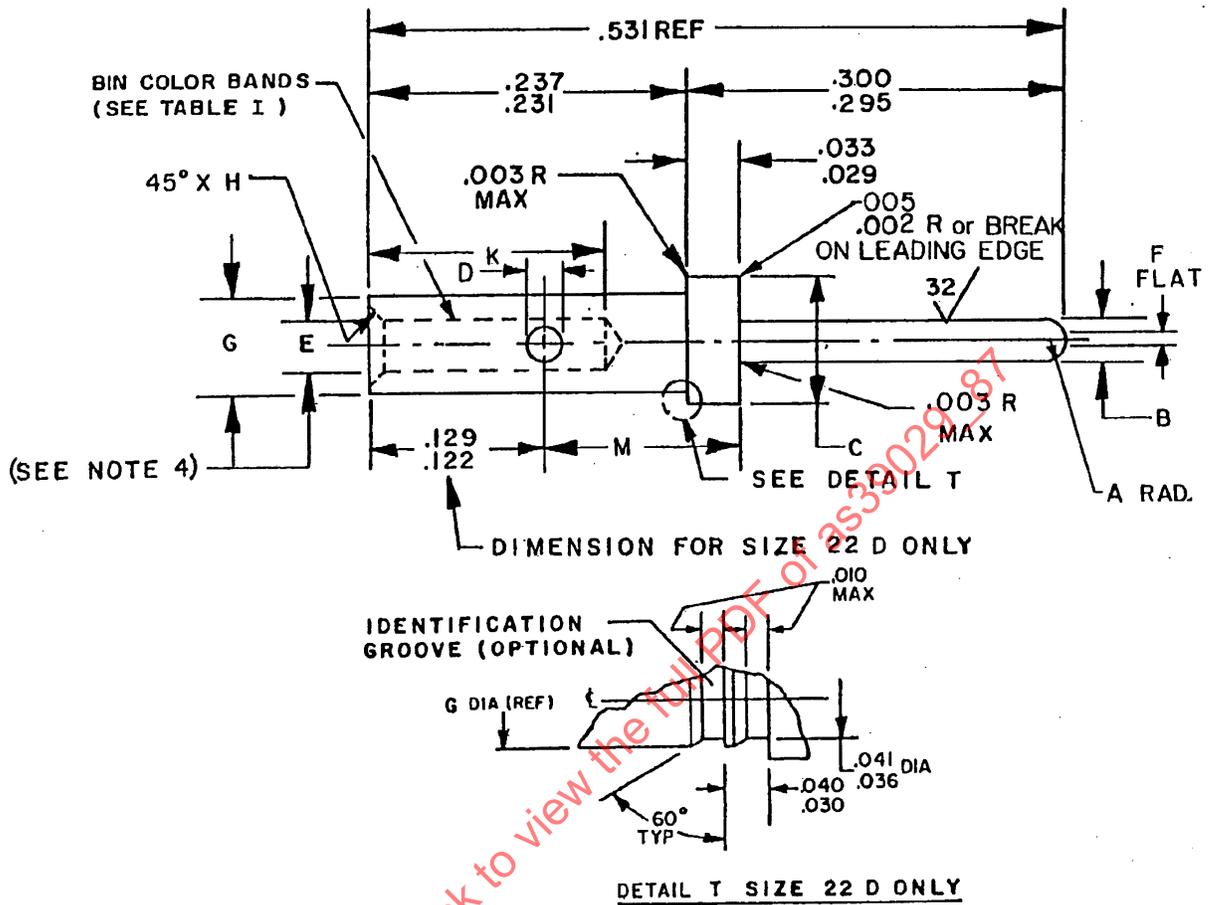


FIGURE 1. PIN CONTACT.

SAENORM.COM : Click to view the full PDF of AS39029/87

Inches	mm	Inches	mm	Inches	mm
.002	0.05	.032	0.81	.070	1.78
.003	0.08	.033	0.84	.072	1.83
.005	0.13	.0335	0.85	.078	1.98
.010	0.25	.0355	0.90	.082	2.08
.011	0.28	.036	0.91	.088	2.24
.015	0.38	.039	0.99	.091	2.31
.018	0.46	.041	1.04	.094	2.39
.020	0.51	.042	1.07	.101	2.57
.022	0.56	.046	1.17	.103	2.62
.025	0.64	.048	1.22	.127	3.23
.026	0.66	.060	1.52	.130	3.30
.029	0.74	.0615	1.56	.141	3.58
.0295	0.75	.062	1.57	.157	3.99
.030	0.76	.0635	1.61	.209	5.31
.0305	0.77	.066	1.68	.229	5.82
		.068	1.73	.531	13.46

BIN Code	A Radius	B Dia	C Dia	D Dia	E Dia	F Dia	G Dia	H	K	M
470 thru 473	.020	.0305	.062	.022	.0355	.011 Max	.048	.005	.157	----
474 thru 477	.010	.0295	.060	.018	.0335	.015 Max	.046	.003	.141	----
478 thru 481	.020	.041	.094	.032	.048	.030	.070	.010	.229	.078
	.015	.039	.091	.026	.046	.068	.068	.005	.209	.072
	.025	.0635	.130	.042	.068	.103	.103	.005	.229	.088
	.020	.0615	.127	.036	.066	.011	.101	.005	.209	.082

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions shown apply after plating.
4. For size 22D only, diameters E and G are to be concentric within .003 (TIR) regardless of feature size (RFS); for all other contact sizes, diameters E and G to be concentric within .001 (TIR) of maximum material condition (MMC).
5. Spherical end dimensions shall conform to MIL-C-39029/58.

FIGURE 1. PIN CONTACTS - CONTINUED.

REQUIREMENTS:

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

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

Mating contacts: MIL-C-39029/88 and MIL-C-39029/89.

Tools: See table II.

Materials and plating: See table III.

Tensile strength: See table III.

Random vibration: Connectors shall be subjected to the test specified in method 2005 of MIL-STD-1344. The following details shall apply:

- Test condition V using the vibration envelope shown below. (Derived from zone 2 outlined in Aerospace Information Report AIR 1557.)
- Vibration to be conducted at standard test conditions
- Duration shall be 8 hours in the longitudinal direction and 8 hours in a perpendicular direction for a total of 16 hours.

